

SERVICE MANUAL

imageRUNNER ADVANCE C5560i III/C5550i III C5540i III/C5535i III



Canon

March 29, 2022
Rev. 12

Important Notices

Application

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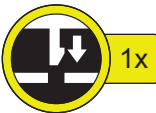















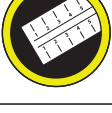
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Caution



Use of this manual should be strictly supervised to avoid disclosure of confidential information.

Explanation of Symbols

The following symbols are used throughout this Service Manual.

Symbols	Explanation	Symbols	Explanation
	Check.		Remove the claw.
	Check visually.		Insert the claw.
	Check a sound.		Push the part.
	Disconnect the connector.		Connect the power cable.
	Connect the connector.		Disconnect the power cable.
	Remove the cable/wire from the cable guide or wire saddle.		Turn on the power.
	Install the cable/wire to the cable guide or wire saddle.		Turn off the power.
	Remove the screw.		Loosen the screw.
	Install the screw.		Tighten the screw.
	Cleaning is needed.		Measurement is needed.

The following rules apply throughout this Service Manual:

- Each chapter contains sections explaining the purpose of specific functions and the relationship between electrical and mechanical systems with reference to the timing of operation.
In the diagrams,  represents the path of mechanical drive; where a signal name accompanies the symbol, the arrow  indicates the direction of the electric signal.
The expression "turn on the power" means flipping on the power switch, closing the front door, and closing the delivery unit door, which results in supplying the machine with power.

2. In the digital circuits, '1' is used to indicate that the voltage level of a given signal is "High", while '0' is used to indicate "Low". (The voltage value, however, differs from circuit to circuit.) In addition, the asterisk (*) as in "DRMD*" indicates that the DRMD signal goes on when '0'.

In practically all cases, the internal mechanisms of a microprocessor cannot be checked in the field. Therefore, the operations of the microprocessors used in the machines are not discussed: they are explained in terms of from sensors to the input of the DC controller PCB and from the output of the DC controller PCB to the loads.

The descriptions in this Service Manual are subject to change without notice for product improvement or other purposes, and major changes will be communicated in the form of Service Information bulletins.

All service persons are expected to have a good understanding of the contents of this Service Manual and all relevant Service Information bulletins and be able to identify and isolate faults in the machine.

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Laser

Laser Safety

Since radiation emitted inside this machine is completely confined with protective housings, external covers and interlock switches, the laser beam cannot escape from the machine during any phase of normal use by users.

Therefore, this machine is classified as a Class 1 laser product under the international standard IEC60825-1 that is regarded as safe during normal use.

Handling of Laser System

This machine is classified as a Class 1 laser product.

However, inside the machine, Class 3B laser beam is emitted and exposure to the beam may cause eye injuries. Therefore, when servicing on and around the Laser Assembly, be sure to turn OFF the power of the machine before starting the work.

If you must service while the power is turned ON, be sure to keep the following in mind.

- Do not use a screwdriver or any tools that reflect laser light.
- Remove watches, rings and any other objects that act as reflectors before starting the work to prevent eye injuries.

The mark or the warning label is affixed to the machine's covers that confine laser beam as shown in the figure.

If you must open the cover and disable the interlock switches for servicing, be sure to prevent the eye from exposure.

The following warnings are given to comply with Safety Principles (EN60950-1).

Dieses Gerät ist der Klasse 1 der Laserprodukte zugeordnet.

Innerhalb des Geräts wird jedoch ein Laserstrahl der Klasse 3B ausgestrahlt, der Augenschäden verursachen kann, wenn man in diesen Strahl blickt.

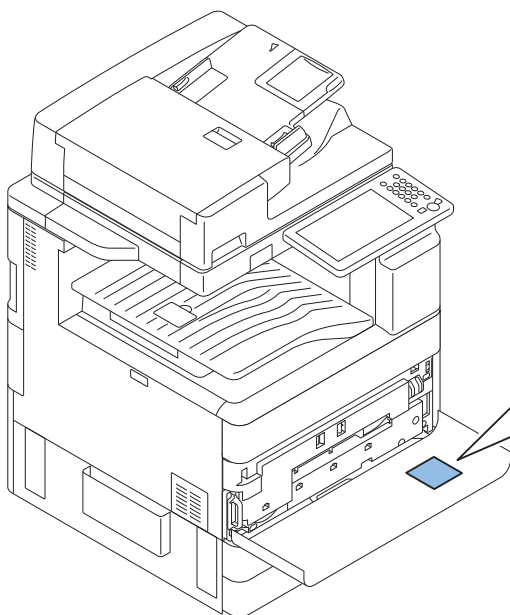
Deshalb sollte bei Servicearbeiten an oder in der Nähe der Laserbaugruppe zuerst die Stromversorgung des Geräts ausgeschaltet werden.

Bei Servicearbeiten, die unbedingt bei eingeschaltetem Gerät durchgeführt werden müssen, auf jeden Fall die folgenden Vorsichtsmaßnahmen beachten.

- Keine Schraubendreher oder ähnliche Werkzeuge verwenden, die Laserlicht reflektieren können.
- Vor Beginn der Arbeit Uhren, Ringe und ähnliche Gegenstände abnehmen, die als Reflektoren fungieren können, um Augenschäden zu verhindern.

An den Abdeckungen des Geräts, die das Austreten des Laserstrahls verhindern, ist das Kennzeichen bzw. der Warnaufkleber angebracht (siehe Abbildung).

Müssen für Servicezwecke die Abdeckung geöffnet und die Verriegelungsschalter deaktiviert werden, besondere Vorsicht walten lassen, damit der Laserstrahl nicht in die Augen gerät.



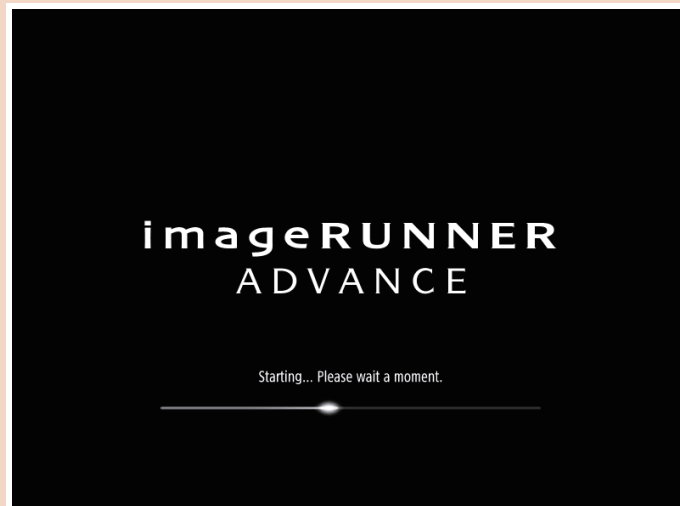
Power Supply / Lithium Battery

Turn power switch ON

The machine is equipped with 2 power switches: main power switch and control energy saver key.
The machine goes on when the main power switch is turned on (i.e., other than in low power mode, sleep mode).

CAUTION:

Do not turn off the main power switch while the progress bar is indicated, during which access is made to the HDD. If deprived of power, the HDD can suffer a fault (E602).



Power Supply Guidelines

- As a general rule, do not use extension cords.
If an extension cord must be used, one that meets the rated voltage and current of the product must be used.
When using, untie the bundle and plug the power cord into the root to ensure the connection between the power cord and extension cord.

⚠ CAUTION:

Do not plug multiple cords together to an extension cord. It may cause a fire or electrical shock.

- Use the power plug in an easily accessible location near the host machine.

Notes When Handling a Lithium Battery

Dispose of used batteries according to the instructions.

⚠ CAUTION:

Risk of explosion if battery is replaced by an incorrect type.

The following warnings are given to comply with Safety Principles (EN60950-1).

⚠ CAUTION:

Wenn mit dem falschen Typ ausgewechselt, besteht Explosionsgefahr.
Gebrauchte Batterien gemäß der Anleitung beseitigen.

警告

如果更換不正確之電池型式會有爆炸的風險
請依製造商說明書處理用過之電池

Toner Safety

About Toner

Toner is a nontoxic matter composed of plastic, iron and a trace of pigments.

⚠ CAUTION:

Never throw toner in flames to avoid explosion.

Handling Adhered Toner

- Use dry tissue paper to wipe off toner adhered to skin or clothes and wash in water.
- Never use warm water for cleaning up toner to prevent toner particles from being gelated to soak into fibers permanently.
- Toner particles are reactive with vinyl polymers. Avoid contacting these materials.

Notes on works

Points to Note Before Servicing

- At servicing, be sure to turn OFF the power source according to the specified steps and disconnect the power plug.
- Be sure to disconnect the power plug on a regular basis and remove dust and dirt accumulated around the outlet with dry cloth.

⚠ CAUTION:

Leaving the power plug connected for a long time in an environment having a lot of dust, moisture, or oily smoke will cause a fire. (Because dust accumulated in the surrounding area will absorb moisture and cause an insulation failure)

- Be careful not to be injured by burrs of edges, sharp corners or protrusions.

⚠ CAUTION:

Hazardous area such as corners, edges, springs and other sharp sections may be remaining on products. Always be aware of the presence of hazardous area to avoid injury caused by contacting and/or striking those area, by not over-concentrating on service work.

Points to Note at Cleaning

When performing cleaning using organic solvent such as alcohol, be sure to check that the component of solvent is vaporized completely before assembling.

Notes on Assembly/Disassembly

Follow the items below to assemble/disassemble the device.

1. Disconnect the power plug to avoid any potential dangers during assembling/disassembling works.
2. If not specially instructed, reverse the order of disassembly to reinstall.
3. Ensure to use the right screw type (length, diameter, etc.) at the right position when assembling.
4. To keep electric conduction, binding screws with washers are used to attach the grounding wire and the varistor. Ensure to use the right screw type when assembling.
5. Unless it is specially needed, do not operate the device with some parts removed.
6. Never remove the paint-locked screws when disassembling.

CAUTION:

English

CAUTION

The fuse may be in the neutral, and that the mains shall be disconnected to de-energize the phase conductors.

German

VORSICHT

Die Sicherung kann sich im Nulleiter befinden und das Hauptnetz muss abgetrennt werden, um die Phasenleiter stromlos zu machen.



Product Overview

Product Lineup.....	7
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Product Lineup

Host machine

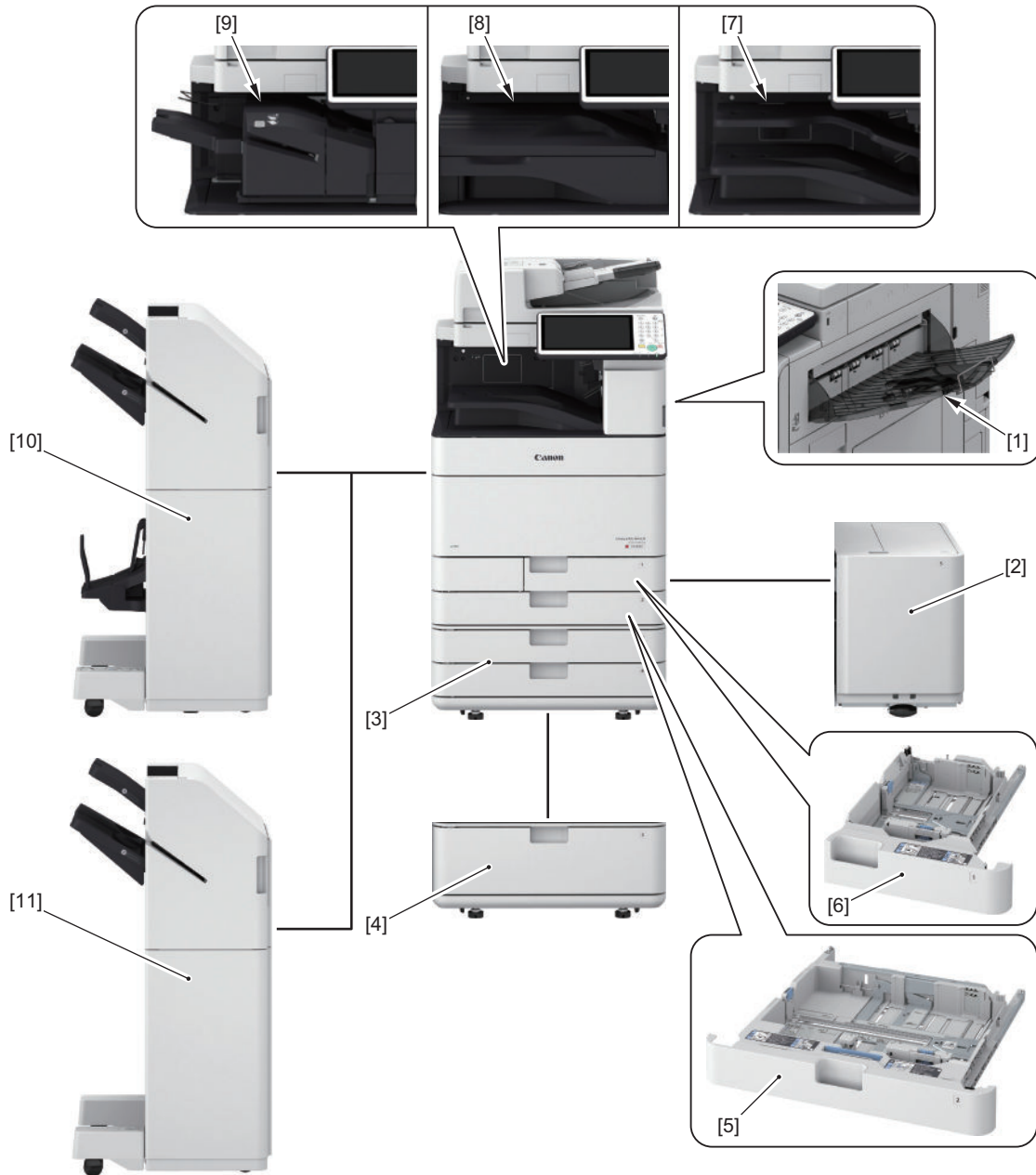
imageRUNNER ADVANCE C5560 III / C5560i III / C5550 III / C5550i III / C5540 III / C5540i III / C5535 III / C5535i III

The underlined numerical value indicates the print speed (ppm: print per minute).



	C5560 III / C5560i III	C5550 III / C5550i III	C5540 III / C5540i III	C5535 III / C5535i III
Print speed (BW/Color)	60/60 ppm	50/50 ppm	40/40 ppm	35/35 ppm
Positioning	High speed / High image quality Middle Office machine Target machine: imageRUNNER ADVANCE C5560/C5550/C5540/C5535 Series			

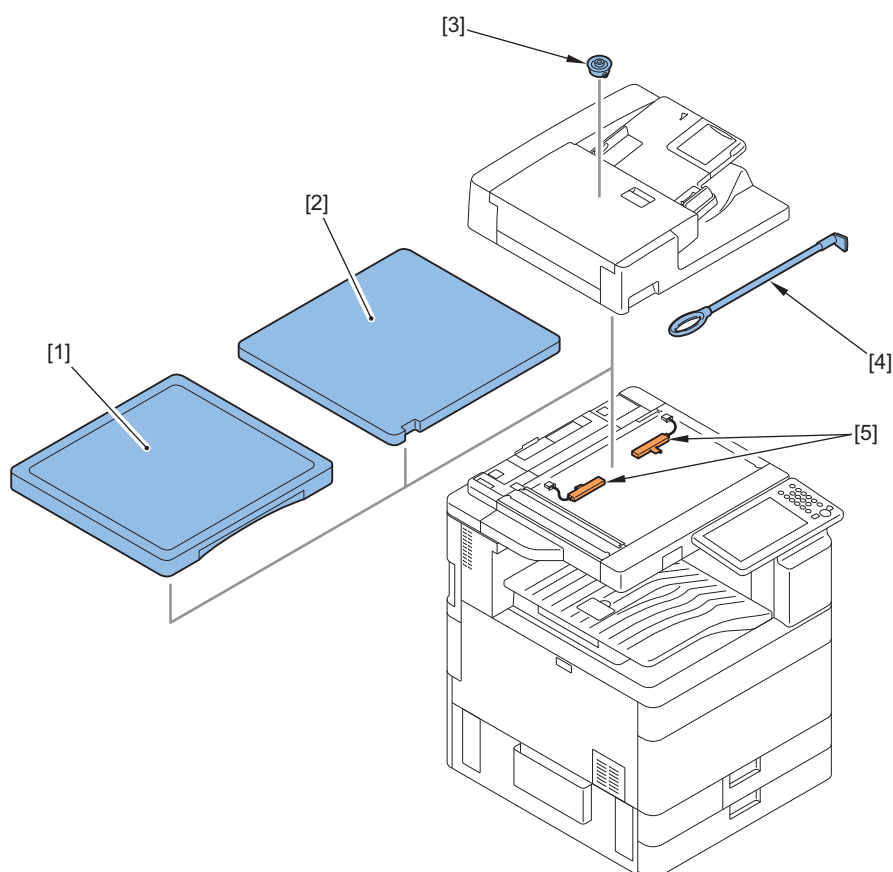
Pickup/Delivery System Options



No.	Product name	Condition
[1]	Copy Tray-J2	
[2]	Paper Deck Unit-F1	
-	Paper Deck Heater Unit-C1	
[3]	Cassette Feeding Unit-AM1	
[4]	High Capacity Cassette Feeding Unit-A1	
[5]	FL Cassette-AZ1	
[6]	FL Cassette-BA1	
-	Cassette Heater Unit-41	
-	Tab Feeding Attachment-F1	
[7]	Inner 2way Tray-J1	
[8]	Buffer Pass Unit-L1	
[9]	Inner Finisher-H1	
[10]	Booklet Finisher-Y1	
[11]	Staple Finisher-Y1	
-	Staple Cartridge-Y1	

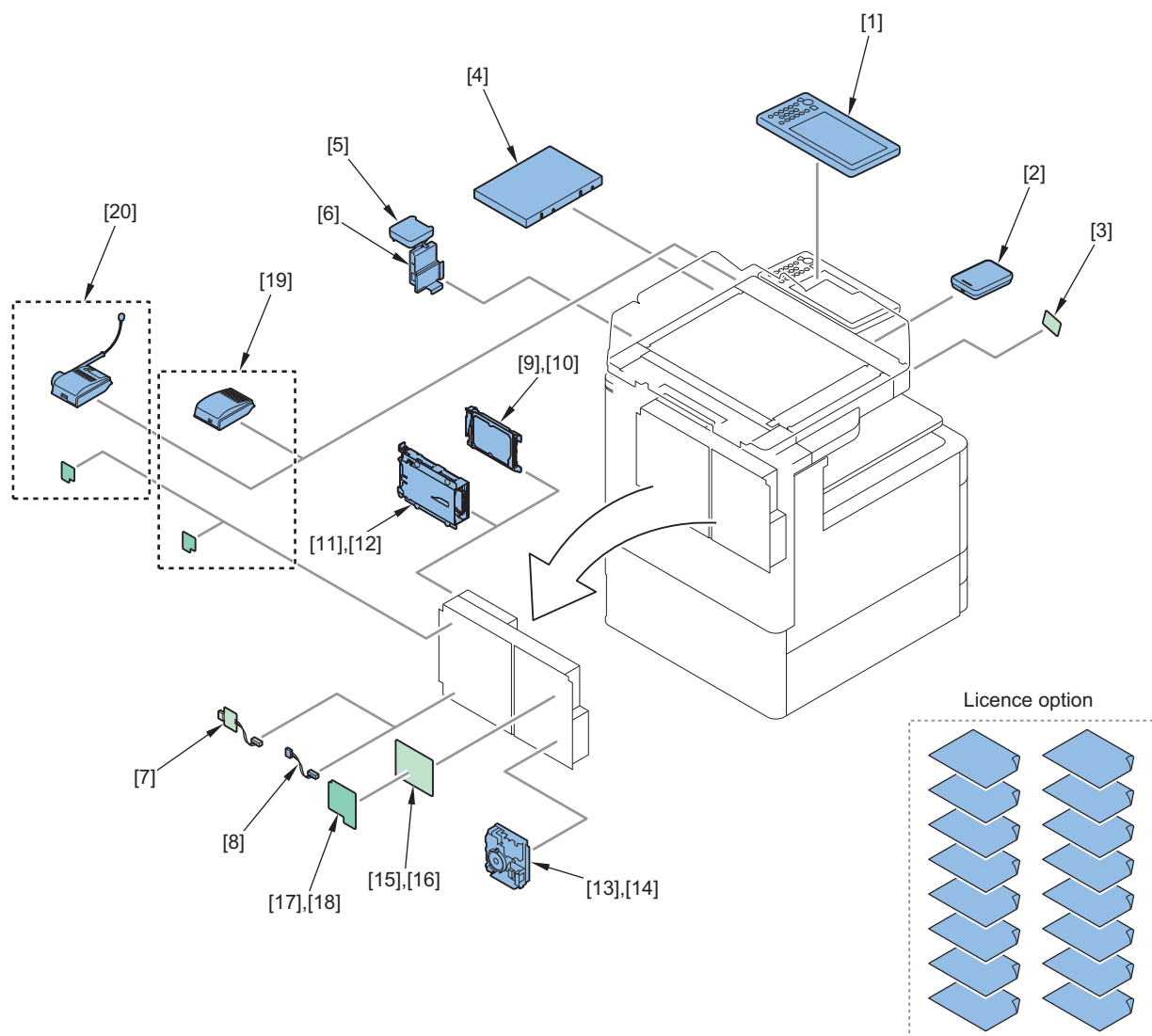
No.	Product name	Condition
-	Staple-P1	
-	2/3 Hole Puncher Unit-A1	
-	2/4 Hole Puncher Unit-A1	
-	4 Hole Puncher Unit-A1	
-	Inner 2/3 Hole Puncher-B1	
-	Inner 2/4 Hole Puncher-B1	
-	Inner 4 Hole Puncher-B1	

Image Reading System Options



No.	Product name	Condition
[1]	Platen Cover Type W	Cannot be installed with the DADF Cannot be installed with Printer Cover-J1
[2]	Printer Cover-J1	Cannot be installed with the DADF Cannot be installed with Co,yboard Cover Type W.
[3]	Stamp Ink Cartridge-C1	DADF is required
-	Stamp Unit-B1	
[4]	ADF Access Handle-A1	
[5]	Reader Heater Unit-J3	

Function Expansion System Options



Hardware Products

No.	Product name	Condition
[1]	NFC Kit-C1	
[2]	IC Card Reader Box-C1	
[2]	IC Card Reader Box-C12	
[3]	Connection Kit-A1 for Bluetooth LE	
[4]	Utility Tray-B1	Cannot be installed with Voice Guidance Kit-G1. Cannot be installed with Voice Operation Kit-D1.
[5]	Copy Card Reader-F1	Copy Card Reader Attachment-B5 is required. Cannot be installed with Serial Interface Kit-K3. Cannot be installed with Copy Control Interface Kit-A1.
[6]	Copy Card Reader Attachment-B5	It is required when installing Copy Card Reader-F1.
[7]	Serial Interface Kit-K3	Cannot be installed with Copy Card Reader-F1. Cannot be installed with Copy Control Interface Kit-A1.
[8]	Copy Control Interface Kit-A1	Cannot be installed with Copy Card Reader-F1. Cannot be installed with Serial Interface Kit-K3.
[9]	2.5inch/250GB HDD-N1	It is required when using the mirroring function with HDD Mirroring Kit-J1.
[10]	2.5inch/1TB HDD-P1	It is required when using the mirroring function with HDD Mirroring Kit-J1.
[11]	HDD Mirroring Kit-J1	When executing the mirroring function, either 2.5inch/250GB HDD-N1 or 2.5inch/1TB HDD-P1 is required.

No.	Product name	Condition
[12]	Removable HDD Kit-AL1	
[13]	Super G3 FAX Board-AS1	
[14]	Super G3 FAX Board-AS2	
[15]	Super G3 2nd Line Fax Board-AS1	Super G3 FAX Board-AS1 is required.
[16]	Super G3 2nd Line Fax Board-AS2	Super G3 FAX Board-AS2 is required.
[17]	Super G3 3rd/4th Line Fax Board-AS1	Super G3 FAX Board-AS1 is required. Super G3 2nd Line Fax Board-AS1 is required.
[18]	Super G3 3rd/4th Line Fax Board-AS2	Super G3 FAX Board-AS2 is required. Super G3 2nd Line Fax Board-AS2 is required.
[19]	Voice Guidance Kit-G1	Cannot be installed with Utility Tray-B1. Cannot be installed with Voice Operation Kit-D1.
[20]	Voice Operation Kit-D1	Cannot be installed with Utility Tray-B1. Cannot be installed with Voice Guidance Kit-G1.
-	imagePASS-P1	
-	imagePASS-P2	
-	Open I/F Board Kit-D1	
-	Card Set-A1 to A6	

License Products

At the time of installation, obtain the license number according to the license certificate included. Then, enter the obtained license number from the Control Panel of the machine. The applicable functions are enabled.

There is no physically required installation.

No.	Product name	Condition
1	Remote Fax Kit-A1	
2	IP FAX Expansion Kit-B1	
3	PCL Asian Font Set-A1	
4	PCL Printer Kit-BQ1	
5	PCL International Font Set-A1	
6	PS Printer Kit-BE1	
7	PS Printer Kit-BQ1	
8	Barcode Printing Kit-D1	
9	Hot Folders License	
10	Productivity Package Web Activate	
11	Fiery Compose	
12	Fiery Impose	
13	Fiery Impose and Compose	
14	Universal Send Trace & Smooth PDF Kit-A1	
15	Universal Send Advanced Feature Set-H1	
16	Universal Send Digital User Signature Kit-C1	
17	Document Scan Lock Kit-B2	
18	Picture Login-A1	
19	JDF Parser for iR-ADV C5500 Series 4.2.130	

Specifications

Product Specifications

Item	Specification/Function
Machine installation method	Desktop type
Light source	LED
Photosensitive medium	OPC (30 mm dia.)
Image reading sensor	CMOS
Exposure method	Laser exposure
Charging method	Roller charging
Developing method	Dry, 2-component development
Transfer method	Intermediate Belt transfer (Primary transfer: Roller transfer, Secondary transfer: Roller transfer)
Separation method	Curvature separation + Static Eliminator
Pickup method	Retard separation method
Fixing method	On-demand fixing
Delivery method	Face-down
Drum cleaning method	Cleaning Blade
Transfer cleaning method	Cleaning Blade
Toner type	Non-magnetic negative toner
Toner supplying method	Toner Container method
Toner level detection function	Yes
Leading edge image margin	4.0 mm +1.5/-1.0 mm
Left image margin	2.5 mm +/- 1.5 mm (2-sided: 2.5 mm +/- 2.0 mm)
Warm-up time*1	<p>When th Main Power is turned ON :</p> <ul style="list-style-type: none"> • Quick startup mode OFF : <ul style="list-style-type: none"> Time between power-on and appearance of the copy icon on the main menu : 24 sec Time from power-on until all the icons incl. the copy icon appear i.e. the copy icon is enabled: 4 sec. Time between device power-on and when the start key is enabled (print reservation) : 30 sec Time from device power on, until copy ready (not print reservation) : 32 sec • Quick startup mode ON : <ul style="list-style-type: none"> Time from device power on, until copy ready (not print reservation) : 10 sec <p>Startup from deep sleep mode :</p> <ul style="list-style-type: none"> • Eco recovery mode OFF : 10 sec • Eco recovery mode ON : 15 sec
First copy time *1	<p>imageRUNNER ADVANCE C5560 III :</p> <ul style="list-style-type: none"> • Color : 4.5 sec • B/W : 2.9 sec <p>imageRUNNER ADVANCE C5550 III :</p> <ul style="list-style-type: none"> • Color : 5.2 sec • B/W : 3.5 sec <p>imageRUNNER ADVANCE C5540 III :</p> <ul style="list-style-type: none"> • Color : 6.1 sec • B/W : 4.1 sec <p>imageRUNNER ADVANCE C5535 III :</p> <ul style="list-style-type: none"> • Color : 7.4 sec • B/W : 4.9 sec
Image gradations	256 gradations
Print resolution	1,200 dpi x 1,200 dpi
Maximum image guarantee area	300 mm x 450.7 mm (Long size paper Print : 300 mm x 1193.5 mm , Long size paper Copy : 300 x 623.5mm)
Maximum printable area	300 mm x 450.7 mm (Long size paper Print : 300 mm x 1193.5 mm , Long size paper Copy : 300 x 623.5mm)

Item	Specification/Function
Paper type / Paper Size	Refer to "Paper type" on page 22
Pickup capacity	Cassette: 550 sheets (80 g/m ²), 640 sheets (64 g/m ²) Multi-purpose Tray: 106 sheets (80 g/m ²), 120 sheets (64 g/m ²)
Duplex method	Through-pass duplex
Memory capacity	Capacity of 2 GB (for controller control) + 2 GB (for image processing)
Hard disk capacity	Standard: 250 GB or more (Usable area: 250 GB) Option: 1 TB
Usage environment temperature range	10 to 30 deg C
Environment humidity range	20 to 80 % RH (Relative humidity; without dew condensation)
Operation noise	75 dB or less (During printing)
Rated power supply	AC 120 to 127 V / 11.5 A, 60 Hz (image RUNNER ADVANCE C5560 III /C5550 III) AC 120 to 127 V / 10 A, 60 Hz (image RUNNER ADVANCE C5540 III /C5535 III) AC 220 to 240 V / 6 A, 50/60 Hz
Power consumption (Reference value)	Maximum : 1800 W (120 to 127 V) 1800 W (220 to 240 V) During sleep mode : 0.8W At power OFF : • Quick startup mode OFF : 0.19 W • Quick startup mode ON : 0.45 W
Size/Weight	Refer to "Weight and Size" on page 14

*1: The numeric value may differ depending on the usage conditions and environment.

*2: Cassette 2 only

Fax Specifications

Item	Contents
Telephone Line Used ^{*1}	Public Switched Telephone Network (PSTN)
Scan Line Density	Normal G3: 8 pels ² / mm x 3.85 line / mm Fine G3: 8 pels ² / mm x 7.7 line / mm Super-Fine G3: 8 pels ² / mm x 15.4 line / mm Ultra-Fine G3: 16 pels ² / mm x 15.4 line / mm
Transmission Speed	Super G3 : 33.6 kbps, G3 : 14.4 kbps
Compression Method	MH, MR, MMR, JBIG
Transmission Type	SuperG3, G3
Sending Original Sizes	• AB configuration: A3, B4, A4, A4R, B5 ^{*2} , B5R ^{*3} , A5 ^{*3} , A5R ^{*3} • Inch configuration: 11" x 17", LGL, LTR, LTRR, STMTR
Receiving Paper Sizes	• AB configuration: A3, B4, A4, A4R, B5, B5R, A5R • Inch configuration: 11" x 17", LGL, LTR, LTRR, STMTR • Other: K8, K16
No. of Memory RX Jobs	Up to 320 jobs
Transmission Times	Approximately 2.6 seconds (When sending LTR Canon original paper, Normal 8 pels x 3.85 line/mm ECM (JBIG))

*1 When using an IP telephone service, facsimile communication may not be performed normally via an IP telephone line. It is recommended to use facsimile communication via a general telephone (Public Switched Telephone Network) line.

*2 Pels stands for picture elements (pixels).

*3 Sent as A4.

Weight and Size

Product name	Width (mm)	Depth (mm)	Height (mm)	Wight: Approx. (kg)
imageRUNNER ADVANCE C5560F III / C5550F III /C5540F III /C5535F III	620	742 Platen Cover Model : 726	950 Platen Cover Model : 827	139 Platen Cover Model : 127
Cassette Pedestal-AM1	620	700	251	22.5
High Capacity Cassette Feeding Unit-A1	620	700	251	30
Paper Deck Unit-F1	344	630	440	31
Inner Finisher-H1	466	525	224	8.6
Staple Finisher-Y1	537	623	1095	31
Saddle Finisher-Y1	537	623	1095	57

Productivity

■ iAC5535 III

Unit : images / min

Media	Size	1-side				2-side			
		Cassette		Stack Bypass		Cassette		Stack Bypass	
		Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3
Thin 2(52 to 59 g/m ²) Thin 1(60 to 63 g/m ²) Plain 1(64 to 75 g/m ²) Color paper (64 to 81 g/m ²) Recycled 1(64 to 75 g/m ²) Recycled 2[120/230V] (76 to 90 g/m ²) Plain 2 [120/230V] (76 to 90 g/m ²) Washi (93 g/m ²) Bond [120/230V] (82 to 99 g/m ²) Pre-punched(64 to 81 g/m ²) Tracing paper (64 to 81 g/m ²)	A4/LTR/A5/B5/E XE	35	17	30	15	35	17	30	15
	STMT	-	-	30	15	-	-	-	-
	B5R	23 to 4	11 to 4	19 to 4	9 to 4	23 to 4	11 to 4	19 to 4	9 to 4
	A5R/STMTR	35 to 4	17 to 4	30 to 4	15 to 4	35 to 4	17 to 4	30 to 4	15 to 4
	A4R/LTRR	23	11	19	9	23	11	19	9
	B4/LGL	21	10	18	9	21	8	18	8
	A3/LDR	18	9	15	7	18	7	15	7
	12X18	17	8	14	7	17	5	14	5
	SRA3	-	-	14	-	-	-	-	-
	Plain 3[120/230V](91 to 105 g/m ²) Recycled 3[120/230V] (91 to 105 g/m ²)	A4/LTR/A5/B5/E XE	35	17	30	15	35	17	30
STMT	-	-	30	15	-	-	-	-	
B5R	23 to 4	11 to 4	19 to 4	9 to 4	23 to 4	11 to 4	19 to 4	9 to 4	
A5R/STMTR	35 to 4	17 to 4	30 to 4	15 to 4	35 to 4	17 to 4	30 to 4	15 to 4	
A4R/LTRR	23	11	19	9	23	11	19	9	
B4/LGL	21	10	18	9	21	8	18	8	
A3/LDR	18	9	15	7	18	7	15	7	
12X18	17	8	14	7	17	5	14	5	
SRA3	-	-	14	-	-	-	-	-	
Heavy 1(106 to 128 g/m ²)	A4/LTR/A5/B5/E XE	35	17	30	15	34	16	30	14
STMT	-	-	30	15	-	-	-	-	
B5R	22 to 4	11 to 4	18 to 4	9 to 4	22 to 4	10 to 4	18 to 4	9 to 4	
A5R/STMTR	35 to 4	17 to 4	30 to 4	15 to 4	35 to 4	17 to 4	30 to 4	15 to 4	

Media	Size	1-side				2-side			
		Cassette		Stack Bypass		Cassette		Stack Bypass	
		Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3
Heavy 1(106 to 128 g/m ²)	A4R/LTRR	23	11	19	9	23	11	19	9
	B4/LGL	21	10	18	9	21	8	18	8
	A3/LDR	18	9	15	7	18	7	15	7
	12X18	17	8	14	7	17	5	14	5
	SRA3	-	-	14	-	-	-	-	-
Heavy 2(129 to 150 g/m ²)	A4/LTR/A5/B5/E XE	30	15	26	13	30	14	26	13
Heavy 3(151 to 163 g/m ²)	STMT	-	-	26	13	-	-	-	-
Heavy 4(164 to 180 g/m ²)	B5R	18 to 4	9 to 4	15 to 4	7 to 4	18 to 4	8 to 4	15 to 4	7 to 4
Heavy 5(181 to 220 g/m ²)	A5R/STMTR	30 to 4	15 to 4	26 to 4	13 to 4	30 to 4	15 to 4	26 to 4	13 to 4
Label 1(118 to 185 g/m ²)	A4R/LTRR	18	9	15	7	18	9	15	7
	B4/LGL	16	8	13	7	16	7	13	7
	A3/LDR	16	8	13	6	16	6	13	6
	12X18	15	7	13	6	15	4	13	4
Heavy 6(221 to 256 g/m ²)	SRA3	-	-	13	-	-	-	-	-
	A4/LTR/A5/B5/E XE	30	-	26	-	-	-	-	-
	1-Sided Coated 1(106 to 163 g/m ²)	STMT	-	-	26	-	-	-	-
	1-Sided Coated 2(164 to 220 g/m ²)	B5R	18 to 4	-	15 to 4	-	-	-	-
	1-Sided Coated 3(221 to 256 g/m ²)	A5R/STMTR	30 to 4	-	26 to 4	-	-	-	-
	2-Sided Coated 1(106 to 163 g/m ²)	A4R/LTRR	18	-	15	-	-	-	-
	2-Sided Coated 2(164 to 220 g/m ²)	B4/LGL	16	-	13	-	-	-	-
	2-Sided Coated 3(221 to 256 g/m ²)	A3/LDR	16	-	13	-	-	-	-
		12X18	15	-	13	-	-	-	-
		SRA3	-	-	13	-	-	-	-
Heavy 7(257 to 300 g/m ²)	A4/LTR/A5/B5/E XE	25	-	21	-	-	-	-	-
	Four Post Card (164 to 220 g/m ²)	STMT	-	-	21	-	-	-	-
		B5R	18	-	15 to 4	-	-	-	-
		A5R/STMTR	25	-	21 to 4	-	-	-	-
		A4R/LTRR	18	-	15	-	-	-	-
		B4/LGL	16	-	13	-	-	-	-
		A3/LDR	14	-	12	-	-	-	-
		12X18	13	-	11	-	-	-	-
Tab1 to 4(91 to 220 g/m ²)	SRA3	-	-	11	-	-	-	-	
Tranceparency (121 to 220 g/m ²)	A4/LTR	25	12	21	10	-	-	-	-
Envelope	A4/LTR	20	-	17	-	-	-	-	-
	Nagagata 3(Long Edge Feed)	25	-	21	-	-	-	-	-
	Nagagata 3(Short Edge Feed)	19 to 4	-	16 to 4	-	-	-	-	-
	Youganaga 3(Long Edge Feed)	25	-	21	-	-	-	-	-
Youganaga 3(Short Edge Feed)	16 to 4	-	13 to 4	-	-	-	-	-	

Media	Size	1-side				2-side			
		Cassette		Stack Bypass		Cassette		Stack Bypass	
		Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3
Envelope	Kakugata 2(Short Edge Feed)	14	-	12	-	-	-	-	-
	Monarch(Long Edge Feed)	25 to 4	-	21 to 4	-	-	-	-	-
	Monarch(Short Edge Feed)	25 to 4	-	21 to 4	-	-	-	-	-
	ISO-C5(Long Edge Feed)	25	-	21	-	-	-	-	-
	ISO-C5(Short Edge Feed)	19 to 4	-	16 to 4	-	-	-	-	-
	DL(Long Edge Feed)	25	-	21	-	-	-	-	-
	DL(Short Edge Feed)	19 to 4	-	16 to 4	-	-	-	-	-
	COM10 No. 10(Long Edge Feed)	25	-	21	-	-	-	-	-
	COM10 No. 10(Short Edge Feed)	19 to 4	-	16 to 4	-	-	-	-	-

■ iAC5540 III

Unit : images / min

Media	Size	1-side				2-side			
		Cassette		Stack Bypass		Cassette		Stack Bypass	
		Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3
Thin 2(52 to 59 g/m ²)	A4/LTR/A5/B5/E XE	40	20	34	17	40	20	34	17
Thin 1(60 to 63 g/m ²)									
Plain 1(64 to 75 g/m ²)	STMT	-	-	34	17	-	-	-	-
Color paper (64 to 81 g/m ²)	B5R	24 to 4	15 to 4	20.5 to 4	12 to 4	24 to 4	15 to 4	20.5 to 4	12 to 4
	A5R/STMTR	40 to 4	20 to 4	34 to 4	17 to 4	40 to 4	20 to 4	34 to 4	17 to 4
Recycled 1(64 to 75 g/m ²)	A4R/LTRR	24	15	20.5	12	24	15	20.5	12
Recycled 2[120/230V] (76 to 90 g/m ²)	B4/LGL	23	14	20	12	23	12	20	12
Plain 2 [120/230V] (76 to 90 g/m ²)	A3/LDR	22	13	18.5	11	22	10	18.5	10
Washi (93 g/m ²)	12×18	18	10	15.5	8	18	8	15.5	8
Bond [120/230V] (82 to 99 g/m ²)	SRA3	-	-	15.5	-	-	-	-	-
Pre-punched(64 to 81 g/m ²)									
Tracing paper (64 to 81 g/m ²)									
Plain 3[120/230V](91 to 105 g/m ²)	A4/LTR/A5/B5/E XE	40	20	34	17	40	20	34	17
Recycled 3[120/230V] (91 to 105 g/m ²)	STMT	-	-	34	17	-	-	-	-
	B5R	24 to 4	15 to 4	20.5 to 4	12 to 4	24 to 4	15 to 4	20.5 to 4	12 to 4
	A5R/STMTR	40 to 4	20 to 4	34 to 4	17 to 4	40 to 4	20 to 4	34 to 4	16 to 4
	A4R/LTRR	24	15	20.5	12	24	15	20.5	12
	B4/LGL	23	14	20	12	23	12	20	12
	A3/LDR	22	13	18.5	11	22	10	18.5	10
	12×18	18	10	15.5	8	18		15.5	8

Media	Size	1-side				2-side			
		Cassette		Stack Bypass		Cassette		Stack Bypass	
		Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3
Plain 3[120/230V](91 to 105 g/m ²) Recycled 3[120/230V] (91 to 105 g/m ²)	SRA3	-	-	15.5	-	-	-	-	-
Heavy 1(106 to 128 g/m ²)	A4/LTR/A5/B5/E XE	40	20	34	17	40	20	34	17
	STMT	-	-	34	17	-	-	-	-
	B5R	24 to 4	15 to 4	20.5 to 4	12 to 4	24 to 4	14 to 4	20.5 to 4	12 to 4
	A5R/STMTR	40 to 4	20 to 4	34 to 4	17 to 4	40 to 4	20 to 4	34 to 4	16 to 4
	A4R/LTRR	24	15	20.5	12	24	15	20.5	12
	B4/LGL	23	14	20	12	23	12	20	12
	A3/LDR	22	13	18.5	11	22	10	18.5	10
	12×18	18	10	15.5	8	18	8	15.5	8
Heavy 2(129 to 150 g/m ²) Heavy 3(151 to 163 g/m ²) Heavy 4(164 to 180 g/m ²) Heavy 5(181 to 220 g/m ²) Label 1(118 to 185 g/m ²)	A4/LTR/A5/B5/E XE	30	15	26	13	30	15	26	13
	STMT	-	-	26	13	-	-	-	-
	B5R	18 to 4	9 to 4	15 to 4	7 to 4	18 to 4	9 to 4	15 to 4	7 to 4
	A5R/STMTR	30 to 4	15 to 4	26 to 4	13 to 4	30 to 4	15 to 4	26 to 4	13 to 4
	A4R/LTRR	18	9	15	7	18	9	15	7
	B4/LGL	16	8	13	7	16	7	13	7
	A3/LDR	16	8	13	6	16	6	13	6
	12×18	15	7	13	6	15	4	13	4
Heavy 6(221 to 256 g/m ²) 1-Sided Coated 1(106 to 163 g/m ²) 1-Sided Coated 2(164 to 220 g/m ²) 1-Sided Coated 3(221 to 256 g/m ²) 2-Sided Coated 1(106 to 163 g/m ²) 2-Sided Coated 2(164 to 220 g/m ²) 2-Sided Coated 3(221 to 256 g/m ²)	A4/LTR/A5/B5/E XE	30	-	26	-	-	-	-	-
	STMT	-	-	26	-	-	-	-	-
	B5R	18 to 4	-	15 to 4	-	-	-	-	-
	A5R/STMTR	30 to 4	-	26 to 4	-	-	-	-	-
	A4R/LTRR	18	-	15	-	-	-	-	-
	B4/LGL	16	-	13	-	-	-	-	-
	A3/LDR	16	-	13	-	-	-	-	-
	12×18	15	-	13	-	-	-	-	-
Heavy 7(257 to 300 g/m ²) Four Post Card (164 to 220 g/m ²)	A4/LTR/A5/B5/E XE	25	-	21	-	-	-	-	-
	STMT	-	-	21	-	-	-	-	-
	B5R	18	-	15 to 4	-	-	-	-	-
	A5R/STMTR	25	-	21 to 4	-	-	-	-	-
	A4R/LTRR	18	-	15	-	-	-	-	-
	B4/LGL	16	-	13	-	-	-	-	-
	A3/LDR	14	-	12	-	-	-	-	-
	12×18	13	-	11	-	-	-	-	-
Tab1 to 4(91 to 220 g/m ²)	A4/LTR	25	12	21	10	-	-	-	-
Tranceparency (121 to 220 g/m ²)	A4/LTR	20	-	17	-	-	-	-	-
Envelope	Nagagata 3(Long Edge Feed)	25	-	21	-	-	-	-	-

Media	Size	1-side				2-side			
		Cassette		Stack Bypass		Cassette		Stack Bypass	
		Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3
Envelope	Nagagata 3(Short Edge Feed)	19 to 4	-	16 to 4	-	-	-	-	-
	Yougatanaga 3(Long Edge Feed)	25	-	21	-	-	-	-	-
	Yougatanaga 3(Short Edge Feed)	16 to 4	-	13 to 4	-	-	-	-	-
	Kakugata 2(Short Edge Feed)	14	-	12	-	-	-	-	-
	Monarch(Long Edge Feed)	25 to 4	-	21 to 4	-	-	-	-	-
	Monarch(Short Edge Feed)	25 to 4	-	21 to 4	-	-	-	-	-
	ISO-C5(Long Edge Feed)	25	-	21	-	-	-	-	-
	ISO-C5(Short Edge Feed)	19 to 4	-	16 to 4	-	-	-	-	-
	DL(Long Edge Feed)	25	-	21	-	-	-	-	-
	DL(Short Edge Feed)	19 to 4	-	16 to 4	-	-	-	-	-
	COM10 No. 10(Long Edge Feed)	25	-	21	-	-	-	-	-
	COM10 No. 10(Short Edge Feed)	19 to 4	-	16 to 4	-	-	-	-	-

■ iAC5550 III

Unit : images / min

Media	Size	1-side				2-side			
		Cassette		Stack Bypass		Cassette		Stack Bypass	
		Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3
Thin 2(52 to 59 g/m ²)	A4/LTR/A5/B5/E XE	50	25	43	21	50	25	43	21
Thin 1(60 to 63 g/m ²)		-	-	43	21	-	-	-	-
Plain 1(64 to 75 g/m ²)	STMT	-	-	43	21	-	-	-	-
Color paper (64 to 81 g/m ²)	B5R	30 to 4	15 to 4	25 to 4	12 to 4	30 to 4	15 to 4	25 to 4	12 to 4
Recycled 1(64 to 75 g/m ²)	A5R/STMTR	50 to 4	25 to 4	42 to 4	21 to 4	50 to 4	24 to 4	42 to 4	21 to 4
Recycled 2[120/230V] (76 to 90 g/m ²)	A4R/LTRR	30	15	25	12	30	15	25	12
Plain 2 [120/230V] (76 to 90 g/m ²)	B4/LGL	29	14	24	12	29	12	24	12
	A3/LDR	27	13	23	11	27	10	23	10
Washi (93 g/m ²)	12×18	20	10	17	8	20	8	17	8
	SRA3	-	-	17	-	-	-	-	-
Bond [120/230V] (82 to 99 g/m ²)									
Pre-punched(64 to 81 g/m ²)									
Tracing paper (64 to 81 g/m ²)									

Media	Size	1-side				2-side			
		Cassette		Stack Bypass		Cassette		Stack Bypass	
		Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3
Plain 3[120/230V](91 to 105 g/m ²) Recycled 3[120/230V] (91 to 105 g/m ²)	A4/LTR/A5/B5/E XE	50	25	43	21	50	25	43	21
	STMT	-	-	43	21	-	-	-	-
	B5R	30 to 4	15 to 4	24 to 4	12 to 4	30 to 4	14 to 4	24 to 4	12 to 4
	A5R/STMTR	50 to 4	25 to 4	42 to 4	21 to 4	50 to 4	24 to 4	42 to 4	20 to 4
	A4R/LTRR	30	15	25	12	30	15	25	12
	B4/LGL	29	14	24	12	29	12	24	12
	A3/LDR	27	13	23	11	27	10	23	10
	12×18	20	10	17	8	20	8	17	8
Heavy 1(106 to 128 g/m ²)	A4/LTR/A5/B5/E XE	50	25	43	21	50	25	43	21
	STMT	-	-	43	21	-	-	-	-
	B5R	30 to 4	15 to 4	24 to 4	12 to 4	30 to 4	15 to 4	24 to 4	12 to 4
	A5R/STMTR	50 to 4	25 to 4	42 to 4	21 to 4	50 to 4	24 to 4	42 to 4	20 to 4
	A4R/LTRR	30	15	25	12	30	15	25	12
	B4/LGL	29	14	24	12	28	12	24	12
	A3/LDR	25	13	23	11	25	10	23	10
	12×18	20	10	17	8	20	8	17	8
Heavy 2(129 to 150 g/m ²) Heavy 3(151 to 163 g/m ²) Heavy 4(164 to 180 g/m ²) Heavy 5(181 to 220 g/m ²) Label 1(118 to 185 g/m ²)	A4/LTR/A5/B5/E XE	30	15	26	13	30	15	26	13
	STMT	-	-	26	13	-	-	-	-
	B5R	18 to 4	9 to 4	14 to 4	7 to 4	18 to 4	9 to 4	14 to 4	7 to 4
	A5R/STMTR	30 to 4	15 to 4	26 to 4	13 to 4	30 to 4	14 to 4	26 to 4	12 to 4
	A4R/LTRR	18	9	15	7	18	9	15	7
	B4/LGL	16	8	13	7	16	7	13	7
	A3/LDR	16	8	13	6	16	6	13	6
	12×18	15	7	13	6	15	4	13	4
Heavy 6(221 to 256 g/m ²) 1-Sided Coated 1(106 to 163 g/m ²) 1-Sided Coated 2(164 to 220 g/m ²) 1-Sided Coated 3(221 to 256 g/m ²) 2-Sided Coated 1(106 to 163 g/m ²) 2-Sided Coated 2(164 to 220 g/m ²) 2-Sided Coated 3(221 to 256 g/m ²)	A4/LTR/A5/B5/E XE	30	-	26	-	-	-	-	-
	STMT	-	-	26	-	-	-	-	-
	B5R	18 to 4	-	15 to 4	-	-	-	-	-
	A5R/STMTR	30 to 4	-	26 to 4	-	-	-	-	-
	A4R/LTRR	18	-	15	-	-	-	-	-
	B4/LGL	16	-	13	-	-	-	-	-
	A3/LDR	16	-	13	-	-	-	-	-
	12×18	15	-	13	-	-	-	-	-
Heavy 7(257 to 300 g/m ²) Four Post Card (164 to 220 g/m ²)	A4/LTR/A5/B5/E XE	25	-	21	-	-	-	-	-
	STMT	-	-	21	-	-	-	-	-
	B5R	18	-	15 to 4	-	-	-	-	-
	A5R/STMTR	25	-	21 to 4	-	-	-	-	-
	A4R/LTRR	18	-	15	-	-	-	-	-
	B4/LGL	16	-	13	-	-	-	-	-
	A3/LDR	14	-	12	-	-	-	-	-
	12×18	13	-	11	-	-	-	-	-
SRA3	-	-	11	-	-	-	-	-	

Media	Size	1-side				2-side			
		Cassette		Stack Bypass		Cassette		Stack Bypass	
		Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3
Tab1 to 4(91 to 220 g/m ²)	A4/LTR	25	12	21	10	-	-	-	-
Tranceparency (121 to 220 g/m ²)	A4/LTR	20	-	17	-	-	-	-	-
Envelope	Nagagata 3(Long Edge Feed)	25	-	21	-	-	-	-	-
	Nagagata 3(Short Edge Feed)	19 to 4	-	16 to 4	-	-	-	-	-
	Yougatanaga 3(Long Edge Feed)	25	-	21	-	-	-	-	-
	Yougatanaga 3(Short Edge Feed)	16 to 4	-	13 to 4	-	-	-	-	-
	Kakugata 2(Short Edge Feed)	14	-	12	-	-	-	-	-
	Monarch(Long Edge Feed)	25 to 4	-	21 to 4	-	-	-	-	-
	Monarch(Short Edge Feed)	25 to 4	-	21 to 4	-	-	-	-	-
	ISO-C5(Long Edge Feed)	25	-	21	-	-	-	-	-
	ISO-C5(Short Edge Feed)	19 to 4	-	16 to 4	-	-	-	-	-
	DL(Long Edge Feed)	25	-	21	-	-	-	-	-
	DL(Short Edge Feed)	19 to 4	-	16 to 4	-	-	-	-	-
	COM10 No. 10(Long Edge Feed)	25	-	21	-	-	-	-	-
	COM10 No. 10(Short Edge Feed)	19 to 4	-	16 to 4	-	-	-	-	-

■ iAC5560 III

Unit : images / min

Media	Size	1-side				2-side			
		Cassette		Stack Bypass		Cassette		Stack Bypass	
		Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3
Thin 2(52 to 59 g/m ²)	A4/LTR/A5/B5/E	60	30	52	26	60	30	52	26
Thin 1(60 to 63 g/m ²)	XE								
Plain 1(64 to 75 g/m ²)	STMT	-	-	52	26	-	-	-	-
Color paper (64 to 81 g/m ²)	B5R	36 to 5	18 to 5	31 to 5	15 to 5	36 to 5	18 to 5	31 to 5	15 to 5
Recycled 1(64 to 75 g/m ²)	A5R/STMTR	60 to 5	30 to 5	52 to 5	26 to 5	60 to 5	30 to 5	52 to 5	26 to 5
Recycled 2[120/230V] (76 to 90 g/m ²)	A4R/LTRR	36	18	31	15	36	18	31	15
Plain 2 [120/230V] (76 to 90 g/m ²)	B4/LGL	34	17	29	14	34	12	29	12
Washi (93 g/m ²)	A3/LDR	32	16	27	13	32	10	27	10
	12×18	20	10	17	8	20	8	16	8

Media	Size	1-side				2-side			
		Cassette		Stack Bypass		Cassette		Stack Bypass	
		Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3
Bond [120/230V] (82 to 99 g/m ²) Pre-punched(64 to 81 g/m ²) Tracing paper (64 to 81 g/m ²)	SRA3	-	-	17	-	-	-	-	-
Plain 3[120/230V](91 to 105 g/m ²) Recycled 3[120/230V] (91 to 105 g/m ²)	A4/LTR/A5/B5/E XE	60	30	52	26	60	30	52	26
	STMT	-	-	52	26	-	-	-	-
	B5R	36 to 5	18 to 5	31 to 5	15 to 5	36 to 5	18 to 5	31 to 5	14 to 5
	A5R/STMTR	60 to 5	30 to 5	52 to 5	26 to 5	60 to 5	30 to 5	52 to 5	26 to 5
	A4R/LTRR	36	18	31	15	36	18	31	15
	B4/LGL	34	17	29	14	34	12	29	12
	A3/LDR	30	16	27	13	30	10	26	10
	12×18	20	10	17	8	20	8	16	8
Heavy 1(106 to 128 g/m ²)	A4/LTR/A5/B5/E XE	50	25	43	21	50	25	43	21
	STMT	-	-	43	21	-	-	-	-
	B5R	30 to 4	15 to 4	25 to 4	12 to 4	30 to 4	15 to 4	25 to 4	12 to 4
	A5R/STMTR	50 to 4	25 to 4	43 to 4	21 to 4	50 to 4	25 to 4	43 to 4	20 to 4
	A4R/LTRR	30	15	25	12	30	15	25	12
	B4/LGL	29	14	24	12	28	12	24	12
	A3/LDR	25	13	23	11	25	10	23	10
	12×18	20	10	17	8	20	8	17	8
Heavy 2(129 to 150 g/m ²) Heavy 3(151 to 163 g/m ²) Heavy 4(164 to 180 g/m ²) Heavy 5(181 to 220 g/m ²) Label 1(118 to 185 g/m ²)	A4/LTR/A5/B5/E XE	30	15	26	13	30	15	26	13
	STMT	-	-	26	13	-	-	-	-
	B5R	18 to 4	9 to 4	15 to 4	7 to 4	18 to 4	9 to 4	15 to 4	7 to 4
	A5R/STMTR	30 to 4	15 to 4	26 to 4	13 to 4	30 to 4	14 to 4	26 to 4	13 to 4
	A4R/LTRR	18	9	15	7	18	9	15	7
	B4/LGL	16	8	13	7	16	7	13	7
	A3/LDR	16	8	13	6	16	6	13	6
	12×18	15	7	13	6	15	4	13	4
Heavy 6(221 to 256 g/m ²) 1-Sided Coated 1(106 to 163 g/m ²) 1-Sided Coated 2(164 to 220 g/m ²) 1-Sided Coated 3(221 to 256 g/m ²) 2-Sided Coated 1(106 to 163 g/m ²) 2-Sided Coated 2(164 to 220 g/m ²) 2-Sided Coated 3(221 to 256 g/m ²)	A4/LTR/A5/B5/E XE	30	-	26	-	-	-	-	-
	STMT	-	-	26	-	-	-	-	-
	B5R	18 to 4	-	15 to 4	-	-	-	-	-
	A5R/STMTR	30 to 4	-	26 to 4	-	-	-	-	-
	A4R/LTRR	18	-	15	-	-	-	-	-
	B4/LGL	16	-	13	-	-	-	-	-
	A3/LDR	16	-	13	-	-	-	-	-
	12×18	15	-	13	-	-	-	-	-
Heavy 7(257 to 300 g/m ²) 4Four Post Card (164 to 220 g/m ²)	A4/LTR/A5/B5/E XE	25	-	21	-	-	-	-	-
	STMT	-	-	21	-	-	-	-	-
	B5R	18	-	15 to 4	-	-	-	-	-

Media	Size	1-side				2-side			
		Cassette		Stack Bypass		Cassette		Stack Bypass	
		Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3	Output tray 1/2	Output tray 3
Heavy 7(257 to 300 g/m ²) 4Four Post Card (164 to 220 g/m ²)	A5R/STMTR	25	-	21 to 4	-	-	-	-	-
	A4R/LTRR	18	-	15	-	-	-	-	-
	B4/LGL	16	-	13	-	-	-	-	-
	A3/LDR	14	-	12	-	-	-	-	-
	12×18	13	-	11	-	-	-	-	-
	SRA3	-	-	11	-	-	-	-	-
Tab1 to 4(91 to 220 g/m ²)	A4/LTR	25	12	21	10	-	-	-	-
Tranceparency (121 to 220 g/m ²)	A4/LTR	20	-	17	-	-	-	-	-
Envelope	Nagagata 3(Long Edge Feed)	25	-	21	-	-	-	-	-
	Nagagata 3(Short Edge Feed)	19 to 4	-	16 to 4	-	-	-	-	-
	Yougatanaga 3(Long Edge Feed)	25	-	21	-	-	-	-	-
	Yougatanaga 3(Short Edge Feed)	16 to 4	-	13 to 4	-	-	-	-	-
	Kakugata 2(Short Edge Feed)	14	-	12	-	-	-	-	-
	Monarch(Long Edge Feed)	25 to 4	-	21 to 4	-	-	-	-	-
	Monarch(Short Edge Feed)	25 to 4	-	21 to 4	-	-	-	-	-
	ISO-C5(Long Edge Feed)	25	-	21	-	-	-	-	-
	ISO-C5(Short Edge Feed)	19 to 4	-	16 to 4	-	-	-	-	-
	DL(Long Edge Feed)	25	-	21	-	-	-	-	-
	DL(Short Edge Feed)	19 to 4	-	16 to 4	-	-	-	-	-
	COM10 No. 10(Long Edge Feed)	25	-	21	-	-	-	-	-
	COM10 No. 10(Short Edge Feed)	19 to 4	-	16 to 4	-	-	-	-	-

Paper type

Available paper types are shown below.

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Thin paper 2(52 to 59 g/m ²)	A3	420	297	Yes	No	Yes	Yes	Yes
	B4	364	257	Yes	No	Yes	Yes	Yes
Thin paper 1(60 to 63 g/m ²)	A4R	297	210	Yes	No	Yes	Yes	Yes
	A4	210	297	Yes	Yes	Yes	Yes	Yes
Plain paper 1(64 to 75 g/m ²)	B5R	257	182	Yes	No	Yes	Yes	Yes

Type (paper weight: t/m2)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Plain paper 2(76 to 90 g/m2) Plain paper 3(91 to 105 g/m2) Color paper 1(64 to 81 g/m2)	B5	182	257	Yes	Yes	Yes	Yes	Yes
	A5	148	210	Yes	Yes	Yes	Yes	Yes
	A5R	210	148	Yes	Yes	Yes	Yes	Yes
	A6R	148	105	Yes	Yes	Yes	Yes	Yes
	11x17	431.8	279.4	Yes	No	Yes	Yes	Yes
	LGL	355.6	215.9	Yes	No	Yes	Yes	Yes
	LTR	215.9	279.4	Yes	Yes	Yes	Yes	Yes
	LTRR	279.4	215.9	Yes	No	Yes	Yes	Yes
	STMTR	215.9	139.7	Yes	Yes	Yes	Yes	Yes
	STMT	139.7	215.9	Yes	No	No	No	No
	SRA3	450	320	Yes	No	No	No	No
	12x18	457.2	304.8	Yes	No	Yes	Yes	Yes
	EXEC	184.1	266.7	Yes	Yes	Yes	Yes	Yes
	OFICIO	317.5	215.9	Yes	No	Yes	Yes	Yes
	E-OFICIO	320	220	Yes	No	Yes	Yes	Yes
	B-OFICIO	355	216	Yes	No	Yes	Yes	Yes
	M-OFICIO	341	216	Yes	No	Yes	Yes	Yes
	A-OFICIO	340	220	Yes	No	Yes	Yes	Yes
	A-LTR	220	280	Yes	No	Yes	Yes	Yes
	A-LTRR	280	220	Yes	No	Yes	Yes	Yes
	GLTR-R	266.7	203.2	Yes	No	Yes	Yes	Yes
	GLTR	203.2	266.7	Yes	No	Yes	Yes	Yes
	GLGL	330.2	203.2	Yes	No	Yes	Yes	Yes
	AFLS	337	206	Yes	No	Yes	Yes	Yes
	FLS	330.2	215.9	Yes	No	Yes	Yes	Yes
	K8	390	270	Yes	No	Yes	Yes	Yes
	K16	195	270	Yes	Yes	Yes	Yes	Yes
	K16R	270	195	Yes	No	Yes	Yes	Yes
	F4A	342.9	215.9	Yes	No	Yes	Yes	Yes
	I-LGL	345	215	Yes	No	Yes	Yes	Yes
	Free	139.7 to 457.2	98.4 to 320	Yes	No	No	No	No
	Free (Long length)	457.3 to 1200	98.4 to 320	Yes*1	No	No	No	No
	Custom paper size 1-1	98.4 to 139.6	98 to 297	No	No	No	No	No
Custom paper size 1-2	98.4 to 139.6	297.1 to 304.8	No	No	No	No	No	
Custom paper size 1-3	98.4 to 139.6	304.9 to 320	No	No	No	No	No	
Custom paper size 1-4	139.7 to 147.9	98 to 128.4	Yes	No	No	No	No	
Custom paper size 1-6	139.7 to 147.9	128.5 to 139.6	Yes	No	No	No	No	
Custom paper size 1-5	148 to 181.9	98 to 128.5	Yes	Yes	Yes	Yes	Yes	
Custom paper size 1-7	148 to 181.9	128.5 to 139.6	Yes	Yes	Yes	Yes	Yes	
Custom paper size 2-1	182 to 215.9	98 to 128.5	Yes	Yes	Yes	Yes	Yes	
Custom paper size 2-2	182 to 215.9	128.5 to 139.6	Yes	Yes	Yes	Yes	Yes	
Custom paper size 2-3	139.7 to 147.9	139.7 to 297	Yes	No	No	No	No	

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width di- rection (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Custom paper size 2-4	139.7 to 181.9	297.1 to 304.8	Yes	No	No	No	No	No
Custom paper size 2-5	148 to 181.9	139.7 to 297	Yes	Yes	Yes	Yes	Yes	Yes
Custom paper size 2-6	182 to 215.9	139.7 to 181.9	Yes	Yes	Yes	Yes	Yes	Yes
Custom paper size 2-7	182 to 215.9	182 to 209.9	Yes	Yes	Yes	Yes	Yes	Yes
Custom paper size 2-8	182 to 215.9	210 to 256.9	Yes	Yes	Yes	Yes	Yes	Yes
Custom paper size 3-1	182 to 194.9	257 to 297	Yes	Yes	Yes	Yes	Yes	Yes
Custom paper size 3-2	195 to 215.9	257 to 269.9	Yes	Yes	Yes	Yes	Yes	Yes
Custom paper size 3-3	195 to 215.9	270 to 297	Yes	Yes	Yes	Yes	Yes	Yes
Custom paper size 3-4	182 to 215.9	297.1 to 304.8	Yes	No	Yes	Yes	Yes	Yes
Custom paper size 4-1	216 to 457.2	98 to 128.5	Yes	No	Yes	Yes	Yes	Yes
Custom paper size 4-2	216 to 431.8	128.5 to 139.6	Yes	No	Yes	Yes	Yes	Yes
Custom paper size 4-3	216 to 431.8	139.7 to 181.9	Yes	No	Yes	Yes	Yes	Yes
Custom paper size 4-4	216 to 431.8	182 to 194.9	Yes	No	Yes	Yes	Yes	Yes
Custom paper size 4-5	216 to 269.9	195 to 209.9	Yes	No	Yes	Yes	Yes	Yes
Custom paper size 4-6	270 to 431.8	195 to 209.9	Yes	No	Yes	Yes	Yes	Yes
Custom paper size 4-7	216 to 269.9	210 to 256.9	Yes	No	Yes	Yes	Yes	Yes
Custom paper size 4-8	270 to 431.8	210 to 256.9	Yes	No	Yes	Yes	Yes	Yes
Custom paper size 4-9	216 to 269.9	257 to 269.9	Yes	No	Yes	Yes	Yes	Yes
Custom paper size 4-10	270 to 431.8	257 to 269.9	Yes	No	Yes	Yes	Yes	Yes
Custom paper size 4-11	216 to 269.9	270 to 297	Yes	No	Yes	Yes	Yes	Yes
Custom paper size 4-12	270 to 431.8	270 to 297	Yes	No	Yes	Yes	Yes	Yes
Custom paper size 4-13	216 to 269.9	297.1 to 304.8	Yes	No	Yes	Yes	Yes	Yes
Custom paper size 4-14	270 to 431.8	297.1 to 304.8	Yes	No	Yes	Yes	Yes	Yes
Custom paper size 5-1	431.9 to 457.2	128.5 to 139.6	Yes	No	Yes	Yes	Yes	Yes
Custom paper size 5-2	431.9 to 457.2	139.7 to 194.9	Yes	No	Yes	Yes	Yes	Yes
Custom paper size 5-3	431.9 to 457.2	195 to 304.8	Yes	No	Yes	Yes	Yes	Yes
Custom paper size 5-4	431.9 to 457.2	304.9 to 320	Yes	No	No	No	No	No
Custom paper size 6-1	139.7 to 431.8	304.9 to 320	Yes	No	No	No	No	No
Custom paper size 7-1	457.3 to 1200	98 to 320	Yes*1	No	No	No	No	No

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Heavy paper 1(106 to 128 g/m ²) Heavy paper 2(129 to 150 g/m ²) Heavy paper 3(151 to 163 g/m ²) Heavy paper 4(164 to 180 g/m ²) Heavy paper 5(181 to 220 g/m ²)	A3	420	297	Yes	No	Yes	Yes	Yes
	B4	364	257	Yes	No	Yes	Yes	Yes
	A4R	297	210	Yes	No	Yes	Yes	Yes
	A4	210	297	Yes	Yes	Yes	Yes	Yes
	B5R	257	182	Yes	No	Yes	Yes	Yes
	B5	182	257	Yes	Yes	Yes	Yes	Yes
	A5	148	210	Yes	Yes	Yes	Yes	Yes
	A5R	210	148	Yes	Yes	Yes	Yes	Yes
	A6R	148	105	Yes	Yes	Yes	Yes	Yes
	11x17	431.8	279.4	Yes	No	Yes	Yes	Yes
	LGL	355.6	215.9	Yes	No	Yes	Yes	Yes
	LTR	215.9	279.4	Yes	Yes	Yes	Yes	Yes
	LTRR	279.4	215.9	Yes	No	Yes	Yes	Yes
	STMTR	215.9	139.7	Yes	Yes	Yes	Yes	Yes
	STMT	139.7	215.9	Yes	No	No	No	No
	SRA3	450	320	Yes	No	No	No	No
	12x18	457.2	304.8	Yes	No	Yes	Yes	Yes
	EXEC	184.1	266.7	Yes	Yes	Yes	Yes	Yes
	OFICIO	317.5	215.9	Yes	No	Yes	Yes	Yes
	E-OFICIO	320	220	Yes	No	Yes	Yes	Yes
	B-OFICIO	355	216	Yes	No	Yes	Yes	Yes
	M-OFICIO	341	216	Yes	No	Yes	Yes	Yes
	A-OFICIO	340	220	Yes	No	Yes	Yes	Yes
	A-LTR	220	280	Yes	No	Yes	Yes	Yes
	A-LTRR	280	220	Yes	No	Yes	Yes	Yes
	GLTR-R	266.7	203.2	Yes	No	Yes	Yes	Yes
	GLTR	203.2	266.7	Yes	No	Yes	Yes	Yes
	GLGL	330.2	203.2	Yes	No	Yes	Yes	Yes
	AFLS	337	206	Yes	No	Yes	Yes	Yes
	FLS	330.2	215.9	Yes	No	Yes	Yes	Yes
	K8	390	270	Yes	No	Yes	Yes	Yes
	K16	195	270	Yes	Yes	Yes	Yes	Yes
	K16R	270	195	Yes	No	Yes	Yes	Yes
	F4A	342.9	215.9	Yes	No	Yes	Yes	Yes
	I-LGL	345	215	Yes	No	Yes	Yes	Yes
	Free	139.7 to 457.2	98.4 to 320	Yes	No	No	No	No
	Free (Long length)	457.3 to 1200	98.4 to 320	Yes*1	No	No	No	No
	Custom paper size 1-1	98.4 to 139.6	98 to 297	No	No	No	No	No
	Custom paper size 1-2	98.4 to 139.6	297.1 to 304.8	No	No	No	No	No
	Custom paper size 1-3	98.4 to 139.6	304.9 to 320	No	No	No	No	No
Custom paper size 1-4	139.7 to 147.9	98 to 128.4	Yes	No	No	No	No	
Custom paper size 1-6	139.7 to 147.9	128.5 to 139.6	Yes	No	No	No	No	
Custom paper size 1-5	148 to 181.9	98 to 128.5	Yes	Yes	Yes	Yes	Yes	
Custom paper size 1-7	148 to 181.9	128.5 to 139.6	Yes	Yes	Yes	Yes	Yes	

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width di- rection (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Heavy paper 1(106 to 128 g/m ²)	Custom paper size 2-1	182 to 215.9	98 to 128.5	Yes	Yes	Yes	Yes	Yes
Heavy paper 2(129 to 150 g/m ²)	Custom paper size 2-2	182 to 215.9	128.5 to 139.6	Yes	Yes	Yes	Yes	Yes
Heavy paper 3(151 to 163 g/m ²)	Custom paper size 2-3	139.7 to 147.9	139.7 to 297	Yes	No	No	No	No
Heavy paper 4(164 to 180 g/m ²)	Custom paper size 2-4	139.7 to 181.9	297.1 to 304.8	Yes	No	No	No	No
Heavy paper 5(181 to 220 g/m ²)	Custom paper size 2-5	148 to 181.9	139.7 to 297	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-6	182 to 215.9	139.7 to 181.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-7	182 to 215.9	182 to 209.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-8	182 to 215.9	210 to 256.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-1	182 to 194.9	257 to 297	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-2	195 to 215.9	257 to 269.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-3	195 to 215.9	270 to 297	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-4	182 to 215.9	297.1 to 304.8	Yes	No	Yes	Yes	Yes
	Custom paper size 4-1	216 to 457.2	98 to 128.5	Yes	No	Yes	Yes	Yes
	Custom paper size 4-2	216 to 431.8	128.5 to 139.6	Yes	No	Yes	Yes	Yes
	Custom paper size 4-3	216 to 431.8	139.7 to 181.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-4	216 to 431.8	182 to 194.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-5	216 to 269.9	195 to 209.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-6	270 to 431.8	195 to 209.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-7	216 to 269.9	210 to 256.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-8	270 to 431.8	210 to 256.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-9	216 to 269.9	257 to 269.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-10	270 to 431.8	257 to 269.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-11	216 to 269.9	270 to 297	Yes	No	Yes	Yes	Yes
	Custom paper size 4-12	270 to 431.8	270 to 297	Yes	No	Yes	Yes	Yes
	Custom paper size 4-13	216 to 269.9	297.1 to 304.8	Yes	No	Yes	Yes	Yes
	Custom paper size 4-14	270 to 431.8	297.1 to 304.8	Yes	No	Yes	Yes	Yes
	Custom paper size 5-1	431.9 to 457.2	128.5 to 139.6	Yes	No	Yes	Yes	Yes
	Custom paper size 5-2	431.9 to 457.2	139.7 to 194.9	Yes	No	Yes	Yes	Yes
	Custom paper size 5-3	431.9 to 457.2	195 to 304.8	Yes	No	Yes	Yes	Yes

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Heavy paper 1(106 to 128 g/m ²)	Custom paper size 5-4	431.9 to 457.2	304.9 to 320	Yes	No	No	No	No
Heavy paper 2(129 to 150 g/m ²)	Custom paper size 6-1	139.7 to 431.8	304.9 to 320	Yes	No	No	No	No
Heavy paper 3(151 to 163 g/m ²)	Custom paper size 7-1	457.3 to 1200	98 to 320	Yes*1	No	No	No	No
Heavy paper 4(164 to 180 g/m ²)								
Heavy paper 5(181 to 220 g/m ²)								
Heavy paper 6(221 to 256 g/m ²)	A3	420	297	Yes	No	Yes	Yes	Yes
	B4	364	257	Yes	No	Yes	Yes	Yes
	A4R	297	210	Yes	No	Yes	Yes	Yes
	A4	210	297	Yes	Yes	Yes	Yes	Yes
	B5R	257	182	Yes	No	Yes	Yes	Yes
	B5	182	257	Yes	Yes	Yes	Yes	Yes
	A5	148	210	Yes	Yes	Yes	Yes	Yes
	A5R	210	148	Yes	Yes	Yes	Yes	Yes
	A6R	148	105	Yes	Yes	Yes	Yes	Yes
	11x17	431.8	279.4	Yes	No	Yes	Yes	Yes
	LGL	355.6	215.9	Yes	No	Yes	Yes	Yes
	LTR	215.9	279.4	Yes	Yes	Yes	Yes	Yes
	LTRR	279.4	215.9	Yes	No	Yes	Yes	Yes
	STMTR	215.9	139.7	Yes	Yes	Yes	Yes	Yes
	STMT	139.7	215.9	Yes	No	No	No	No
	SRA3	450	320	Yes	No	No	No	No
	12x18	457.2	304.8	Yes	No	Yes	Yes	Yes
	EXEC	184.1	266.7	Yes	Yes	Yes	Yes	Yes
	OFICIO	317.5	215.9	Yes	No	Yes	Yes	Yes
	E-OFICIO	320	220	Yes	No	Yes	Yes	Yes
	B-OFICIO	355	216	Yes	No	Yes	Yes	Yes
	M-OFICIO	341	216	Yes	No	Yes	Yes	Yes
	A-OFICIO	340	220	Yes	No	Yes	Yes	Yes
	A-LTR	220	280	Yes	No	Yes	Yes	Yes
	A-LTRR	280	220	Yes	No	Yes	Yes	Yes
	GLTR-R	266.7	203.2	Yes	No	Yes	Yes	Yes
	GLTR	203.2	266.7	Yes	No	Yes	Yes	Yes
	GLGL	330.2	203.2	Yes	No	Yes	Yes	Yes
	AFLS	337	206	Yes	No	Yes	Yes	Yes
	FLS	330.2	215.9	Yes	No	Yes	Yes	Yes
	K8	390	270	Yes	No	Yes	Yes	Yes
	K16	195	270	Yes	Yes	Yes	Yes	Yes
	K16R	270	195	Yes	No	Yes	Yes	Yes
	F4A	342.9	215.9	Yes	No	Yes	Yes	Yes
	I-LGL	345	215	Yes	No	Yes	Yes	Yes
	Free	139.7 to 457.2	98.4 to 320	Yes	No	No	No	No
Free (Long length)	457.3 to 1200	98.4 to 320	Yes*1	No	No	No	No	
Custom paper size 1-1	98.4 to 139.6	98 to 297	No	No	No	No	No	
Custom paper size 1-2	98.4 to 139.6	297.1 to 304.8	No	No	No	No	No	
Custom paper size 1-3	98.4 to 139.6	304.9 to 320	No	No	No	No	No	

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Heavy paper 6(221 to 256 g/m ²)	Custom paper size 1-4	139.7 to 147.9	98 to 128.4	Yes	No	No	No	No
	Custom paper size 1-6	139.7 to 147.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 1-5	148 to 181.9	98 to 128.5	Yes	Yes	Yes	Yes	Yes
	Custom paper size 1-7	148 to 181.9	128.5 to 139.6	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-1	182 to 215.9	98 to 128.5	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-2	182 to 215.9	128.5 to 139.6	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-3	139.7 to 147.9	139.7 to 297	Yes	No	No	No	No
	Custom paper size 2-4	139.7 to 181.9	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 2-5	148 to 181.9	139.7 to 297	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-6	182 to 215.9	139.7 to 181.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-7	182 to 215.9	182 to 209.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-8	182 to 215.9	210 to 256.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-1	182 to 194.9	257 to 297	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-2	195 to 215.9	257 to 269.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-3	195 to 215.9	270 to 297	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-4	182 to 215.9	297.1 to 304.8	Yes	No	Yes	Yes	Yes
	Custom paper size 4-1	216 to 457.2	98 to 128.5	Yes	No	Yes	Yes	Yes
	Custom paper size 4-2	216 to 431.8	128.5 to 139.6	Yes	No	Yes	Yes	Yes
	Custom paper size 4-3	216 to 431.8	139.7 to 181.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-4	216 to 431.8	182 to 194.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-5	216 to 269.9	195 to 209.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-6	270 to 431.8	195 to 209.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-7	216 to 269.9	210 to 256.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-8	270 to 431.8	210 to 256.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-9	216 to 269.9	257 to 269.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-10	270 to 431.8	257 to 269.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-11	216 to 269.9	270 to 297	Yes	No	Yes	Yes	Yes
	Custom paper size 4-12	270 to 431.8	270 to 297	Yes	No	Yes	Yes	Yes
	Custom paper size 4-13	216 to 269.9	297.1 to 304.8	Yes	No	Yes	Yes	Yes

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Heavy paper 6(221 to 256 g/m ²)	Custom paper size 4-14	270 to 431.8	297.1 to 304.8	Yes	No	Yes	Yes	Yes
	Custom paper size 5-1	431.9 to 457.2	128.5 to 139.6	Yes	No	Yes	Yes	Yes
	Custom paper size 5-2	431.9 to 457.2	139.7 to 194.9	Yes	No	Yes	Yes	Yes
	Custom paper size 5-3	431.9 to 457.2	195 to 304.8	Yes	No	Yes	Yes	Yes
	Custom paper size 5-4	431.9 to 457.2	304.9 to 320	Yes	No	No	No	No
	Custom paper size 6-1	139.7 to 431.8	304.9 to 320	Yes	No	No	No	No
	Custom paper size 7-1	457.3 to 1200	98 to 320	Yes*1	No	No	No	No
Heavy paper 7(257 to 300 g/m ²)	A3	420	297	Yes	No	No	No	No
	B4	364	257	Yes	No	No	No	No
	A4R	297	210	Yes	No	No	No	No
	A4	210	297	Yes	No	No	No	No
	B5R	257	182	Yes	No	No	No	No
	B5	182	257	Yes	No	No	No	No
	A5	148	210	Yes	No	No	No	No
	A5R	210	148	Yes	No	No	No	No
	A6R	148	105	Yes	No	No	No	No
	11x17	431.8	279.4	Yes	No	No	No	No
	LGL	355.6	215.9	Yes	No	No	No	No
	LTR	215.9	279.4	Yes	No	No	No	No
	LTRR	279.4	215.9	Yes	No	No	No	No
	STMTR	215.9	139.7	Yes	No	No	No	No
	STMT	139.7	215.9	Yes	No	No	No	No
	SRA3	450	320	Yes	No	No	No	No
	12x18	457.2	304.8	Yes	No	No	No	No
	EXEC	184.1	266.7	Yes	No	No	No	No
	OFICIO	317.5	215.9	Yes	No	No	No	No
	E-OFICIO	320	220	Yes	No	No	No	No
	B-OFICIO	355	216	Yes	No	No	No	No
	M-OFICIO	341	216	Yes	No	No	No	No
	A-OFICIO	340	220	Yes	No	No	No	No
	A-LTR	220	280	Yes	No	No	No	No
	A-LTRR	280	220	Yes	No	No	No	No
	GLTR-R	266.7	203.2	Yes	No	No	No	No
	GLTR	203.2	266.7	Yes	No	No	No	No
	GLGL	330.2	203.2	Yes	No	No	No	No
	AFLS	337	206	Yes	No	No	No	No
	FLS	330.2	215.9	Yes	No	No	No	No
	K8	390	270	Yes	No	No	No	No
	K16	195	270	Yes	No	No	No	No
	K16R	270	195	Yes	No	No	No	No
F4A	342.9	215.9	Yes	No	No	No	No	
I-LGL	345	215	Yes	No	No	No	No	
Free	139.7 to 457.2	98.4 to 320	Yes	No	No	No	No	
Free (Long length)	457.3 to 1200	98.4 to 320	Yes*1	No	No	No	No	

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width di- rection (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Heavy paper 7(257 to 300 g/m ²)	Custom paper size 1-1	98.4 to 139.6	98 to 297	No	No	No	No	No
	Custom paper size 1-2	98.4 to 139.6	297.1 to 304.8	No	No	No	No	No
	Custom paper size 1-3	98.4 to 139.6	304.9 to 320	No	No	No	No	No
	Custom paper size 1-4	139.7 to 147.9	98 to 128.4	Yes	No	No	No	No
	Custom paper size 1-6	139.7 to 147.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 1-5	148 to 181.9	98 to 128.5	Yes	No	No	No	No
	Custom paper size 1-7	148 to 181.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 2-1	182 to 215.9	98 to 128.5	Yes	No	No	No	No
	Custom paper size 2-2	182 to 215.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 2-3	139.7 to 147.9	139.7 to 297	Yes	No	No	No	No
	Custom paper size 2-4	139.7 to 181.9	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 2-5	148 to 181.9	139.7 to 297	Yes	No	No	No	No
	Custom paper size 2-6	182 to 215.9	139.7 to 181.9	Yes	No	No	No	No
	Custom paper size 2-7	182 to 215.9	182 to 209.9	Yes	No	No	No	No
	Custom paper size 2-8	182 to 215.9	210 to 256.9	Yes	No	No	No	No
	Custom paper size 3-1	182 to 194.9	257 to 297	Yes	No	No	No	No
	Custom paper size 3-2	195 to 215.9	257 to 269.9	Yes	No	No	No	No
	Custom paper size 3-3	195 to 215.9	270 to 297	Yes	No	No	No	No
	Custom paper size 3-4	182 to 215.9	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 4-1	216 to 457.2	98 to 128.5	Yes	No	No	No	No
	Custom paper size 4-2	216 to 431.8	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 4-3	216 to 431.8	139.7 to 181.9	Yes	No	No	No	No
	Custom paper size 4-4	216 to 431.8	182 to 194.9	Yes	No	No	No	No
	Custom paper size 4-5	216 to 269.9	195 to 209.9	Yes	No	No	No	No
	Custom paper size 4-6	270 to 431.8	195 to 209.9	Yes	No	No	No	No
	Custom paper size 4-7	216 to 269.9	210 to 256.9	Yes	No	No	No	No
	Custom paper size 4-8	270 to 431.8	210 to 256.9	Yes	No	No	No	No
	Custom paper size 4-9	216 to 269.9	257 to 269.9	Yes	No	No	No	No
	Custom paper size 4-10	270 to 431.8	257 to 269.9	Yes	No	No	No	No

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Heavy paper 7(257 to 300 g/m ²)	Custom paper size 4-11	216 to 269.9	270 to 297	Yes	No	No	No	No
	Custom paper size 4-12	270 to 431.8	270 to 297	Yes	No	No	No	No
	Custom paper size 4-13	216 to 269.9	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 4-14	270 to 431.8	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 5-1	431.9 to 457.2	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 5-2	431.9 to 457.2	139.7 to 194.9	Yes	No	No	No	No
	Custom paper size 5-3	431.9 to 457.2	195 to 304.8	Yes	No	No	No	No
	Custom paper size 5-4	431.9 to 457.2	304.9 to 320	Yes	No	No	No	No
	Custom paper size 6-1	139.7 to 431.8	304.9 to 320	Yes	No	No	No	No
	Custom paper size 7-1	457.3 to 1200	98 to 320	Yes*1	No	No	No	No
Recycled 1(64 to 75 g/m ²) Recycled 2(76 to 90 g/m ²) Recycled 3(91 to 105 g/m ²)	A3	420	297	Yes	No	Yes	Yes	Yes
	B4	364	257	Yes	No	Yes	Yes	Yes
	A4R	297	210	Yes	No	Yes	Yes	Yes
	A4	210	297	Yes	Yes	Yes	Yes	Yes
	B5R	257	182	Yes	No	Yes	Yes	Yes
	B5	182	257	Yes	Yes	Yes	Yes	Yes
	A5	148	210	Yes	Yes	Yes	Yes	Yes
	A5R	210	148	Yes	Yes	Yes	Yes	Yes
	A6R	148	105	Yes	Yes	Yes	Yes	Yes
	11x17	431.8	279.4	Yes	No	Yes	Yes	Yes
	LGL	355.6	215.9	Yes	No	Yes	Yes	Yes
	LTR	215.9	279.4	Yes	Yes	Yes	Yes	Yes
	LTRR	279.4	215.9	Yes	No	Yes	Yes	Yes
	STMTR	215.9	139.7	Yes	Yes	Yes	Yes	Yes
	STMT	139.7	215.9	Yes	No	No	No	No
	SRA3	450	320	Yes	No	No	No	No
	12x18	457.2	304.8	Yes	No	Yes	Yes	Yes
	EXEC	184.1	266.7	Yes	Yes	Yes	Yes	Yes
	OFICIO	317.5	215.9	Yes	No	Yes	Yes	Yes
	E-OFICIO	320	220	Yes	No	Yes	Yes	Yes
	B-OFICIO	355	216	Yes	No	Yes	Yes	Yes
	M-OFICIO	341	216	Yes	No	Yes	Yes	Yes
	A-OFICIO	340	220	Yes	No	Yes	Yes	Yes
	A-LTR	220	280	Yes	No	Yes	Yes	Yes
	A-LTRR	280	220	Yes	No	Yes	Yes	Yes
	GLTR-R	266.7	203.2	Yes	No	Yes	Yes	Yes
	GLTR	203.2	266.7	Yes	No	Yes	Yes	Yes
	GLGL	330.2	203.2	Yes	No	Yes	Yes	Yes
	AFLS	337	206	Yes	No	Yes	Yes	Yes
	FLS	330.2	215.9	Yes	No	Yes	Yes	Yes
K8	390	270	Yes	No	Yes	Yes	Yes	
K16	195	270	Yes	Yes	Yes	Yes	Yes	
K16R	270	195	Yes	No	Yes	Yes	Yes	
F4A	342.9	215.9	Yes	No	Yes	Yes	Yes	

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width di- rection (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Recycled 1(64 to 75 g/m ²) Recycled 2(76 to 90 g/m ²) Recycled 3(91 to 105 g/m ²)	I-LGL	345	215	Yes	No	Yes	Yes	Yes
	Free	139.7 to 457.2	98.4 to 320	Yes	No	No	No	No
	Free (Long length)	457.3 to 1200	98.4 to 320	No	No	No	No	No
	Custom paper size 1-1	98.4 to 139.6	98 to 297	No	No	No	No	No
	Custom paper size 1-2	98.4 to 139.6	297.1 to 304.8	No	No	No	No	No
	Custom paper size 1-3	98.4 to 139.6	304.9 to 320	No	No	No	No	No
	Custom paper size 1-4	139.7 to 147.9	98 to 128.4	Yes	No	No	No	No
	Custom paper size 1-6	139.7 to 147.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 1-5	148 to 181.9	98 to 128.5	Yes	Yes	Yes	Yes	Yes
	Custom paper size 1-7	148 to 181.9	128.5 to 139.6	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-1	182 to 215.9	98 to 128.5	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-2	182 to 215.9	128.5 to 139.6	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-3	139.7 to 147.9	139.7 to 297	Yes	No	No	No	No
	Custom paper size 2-4	139.7 to 181.9	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 2-5	148 to 181.9	139.7 to 297	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-6	182 to 215.9	139.7 to 181.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-7	182 to 215.9	182 to 209.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-8	182 to 215.9	210 to 256.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-1	182 to 194.9	257 to 297	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-2	195 to 215.9	257 to 269.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-3	195 to 215.9	270 to 297	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-4	182 to 215.9	297.1 to 304.8	Yes	No	Yes	Yes	Yes
	Custom paper size 4-1	216 to 457.2	98 to 128.5	Yes	No	Yes	Yes	Yes
	Custom paper size 4-2	216 to 431.8	128.5 to 139.6	Yes	No	Yes	Yes	Yes
	Custom paper size 4-3	216 to 431.8	139.7 to 181.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-4	216 to 431.8	182 to 194.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-5	216 to 269.9	195 to 209.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-6	270 to 431.8	195 to 209.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-7	216 to 269.9	210 to 256.9	Yes	No	Yes	Yes	Yes

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Recycled 1(64 to 75 g/m ²) Recycled 2(76 to 90 g/m ²) Recycled 3(91 to 105 g/m ²)	Custom paper size 4-8	270 to 431.8	210 to 256.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-9	216 to 269.9	257 to 269.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-10	270 to 431.8	257 to 269.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-11	216 to 269.9	270 to 297	Yes	No	Yes	Yes	Yes
	Custom paper size 4-12	270 to 431.8	270 to 297	Yes	No	Yes	Yes	Yes
	Custom paper size 4-13	216 to 269.9	297.1 to 304.8	Yes	No	Yes	Yes	Yes
	Custom paper size 4-14	270 to 431.8	297.1 to 304.8	Yes	No	Yes	Yes	Yes
	Custom paper size 5-1	431.9 to 457.2	128.5 to 139.6	Yes	No	Yes	Yes	Yes
	Custom paper size 5-2	431.9 to 457.2	139.7 to 194.9	Yes	No	Yes	Yes	Yes
	Custom paper size 5-3	431.9 to 457.2	195 to 304.8	Yes	No	Yes	Yes	Yes
	Custom paper size 5-4	431.9 to 457.2	304.9 to 320	Yes	No	No	No	No
	Custom paper size 6-1	139.7 to 431.8	304.9 to 320	Yes	No	No	No	No
	Custom paper size 7-1	457.3 to 1200	98 to 320	No	No	No	No	No
	1-Sided Coated 1(106 to 163 g/m ²) 1-Sided Coated 2(164 to 220 g/m ²) 2-Sided Coated 1(106 to 163 g/m ²) 2-Sided Coated 2(164 to 220 g/m ²)		A3	420	297	Yes	No	No
B4		364	257	Yes	No	No	No	No
A4R		297	210	Yes	No	No	No	No
A4		210	297	Yes	No	No	No	No
B5R		257	182	Yes	No	No	No	No
B5		182	257	Yes	No	No	No	No
A5		148	210	Yes	No	No	No	No
A5R		210	148	Yes	No	No	No	No
A6R		148	105	Yes	No	No	No	No
11x17		431.8	279.4	Yes	No	No	No	No
LGL		355.6	215.9	Yes	No	No	No	No
LTR		215.9	279.4	Yes	No	No	No	No
LTRR		279.4	215.9	Yes	No	No	No	No
STMTR		215.9	139.7	Yes	No	No	No	No
STMT		139.7	215.9	Yes	No	No	No	No
SRA3		450	320	Yes	No	No	No	No
12x18		457.2	304.8	Yes	No	No	No	No
EXEC		184.1	266.7	Yes	No	No	No	No
OFICIO		317.5	215.9	Yes	No	No	No	No
E-OFICIO		320	220	Yes	No	No	No	No
B-OFICIO		355	216	Yes	No	No	No	No
M-OFICIO		341	216	Yes	No	No	No	No
A-OFICIO		340	220	Yes	No	No	No	No
A-LTR		220	280	Yes	No	No	No	No
A-LTRR		280	220	Yes	No	No	No	No
GLTR-R		266.7	203.2	Yes	No	No	No	No
GLTR	203.2	266.7	Yes	No	No	No	No	
GLGL	330.2	203.2	Yes	No	No	No	No	

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
1-Sided Coated 1(106 to 163 g/m ²) 1-Sided Coated 2(164 to 220 g/m ²) 2-Sided Coated 1(106 to 163 g/m ²) 2-Sided Coated 2(164 to 220 g/m ²)	AFLS	337	206	Yes	No	No	No	No
	FLS	330.2	215.9	Yes	No	No	No	No
	K8	390	270	Yes	No	No	No	No
	K16	195	270	Yes	No	No	No	No
	K16R	270	195	Yes	No	No	No	No
	F4A	342.9	215.9	Yes	No	No	No	No
	I-LGL	345	215	Yes	No	No	No	No
	Free	139.7 to 457.2	98.4 to 320	Yes	No	No	No	No
	Free (Long length)	457.3 to 1200	98.4 to 320	No	No	No	No	No
	Custom paper size 1-1	98.4 to 139.6	98 to 297	No	No	No	No	No
	Custom paper size 1-2	98.4 to 139.6	297.1 to 304.8	No	No	No	No	No
	Custom paper size 1-3	98.4 to 139.6	304.9 to 320	No	No	No	No	No
	Custom paper size 1-4	139.7 to 147.9	98 to 128.4	Yes	No	No	No	No
	Custom paper size 1-6	139.7 to 147.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 1-5	148 to 181.9	98 to 128.5	Yes	No	No	No	No
	Custom paper size 1-7	148 to 181.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 2-1	182 to 215.9	98 to 128.5	Yes	No	No	No	No
	Custom paper size 2-2	182 to 215.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 2-3	139.7 to 147.9	139.7 to 297	Yes	No	No	No	No
	Custom paper size 2-4	139.7 to 181.9	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 2-5	148 to 181.9	139.7 to 297	Yes	No	No	No	No
	Custom paper size 2-6	182 to 215.9	139.7 to 181.9	Yes	No	No	No	No
	Custom paper size 2-7	182 to 215.9	182 to 209.9	Yes	No	No	No	No
	Custom paper size 2-8	182 to 215.9	210 to 256.9	Yes	No	No	No	No
	Custom paper size 3-1	182 to 194.9	257 to 297	Yes	No	No	No	No
	Custom paper size 3-2	195 to 215.9	257 to 269.9	Yes	No	No	No	No
	Custom paper size 3-3	195 to 215.9	270 to 297	Yes	No	No	No	No
	Custom paper size 3-4	182 to 215.9	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 4-1	216 to 457.2	98 to 128.5	Yes	No	No	No	No
	Custom paper size 4-2	216 to 431.8	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 4-3	216 to 431.8	139.7 to 181.9	Yes	No	No	No	No
	Custom paper size 4-4	216 to 431.8	182 to 194.9	Yes	No	No	No	No

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position					
				MP Tray	CST 1	CST 2	CST 3	CST 4	
1-Sided Coated 1(106 to 163 g/m ²) 1-Sided Coated 2(164 to 220 g/m ²) 2-Sided Coated 1(106 to 163 g/m ²) 2-Sided Coated 2(164 to 220 g/m ²)	Custom paper size 4-5	216 to 269.9	195 to 209.9	Yes	No	No	No	No	
	Custom paper size 4-6	270 to 431.8	195 to 209.9	Yes	No	No	No	No	
	Custom paper size 4-7	216 to 269.9	210 to 256.9	Yes	No	No	No	No	
	Custom paper size 4-8	270 to 431.8	210 to 256.9	Yes	No	No	No	No	
	Custom paper size 4-9	216 to 269.9	257 to 269.9	Yes	No	No	No	No	
	Custom paper size 4-10	270 to 431.8	257 to 269.9	Yes	No	No	No	No	
	Custom paper size 4-11	216 to 269.9	270 to 297	Yes	No	No	No	No	
	Custom paper size 4-12	270 to 431.8	270 to 297	Yes	No	No	No	No	
	Custom paper size 4-13	216 to 269.9	297.1 to 304.8	Yes	No	No	No	No	
	Custom paper size 4-14	270 to 431.8	297.1 to 304.8	Yes	No	No	No	No	
	Custom paper size 5-1	431.9 to 457.2	128.5 to 139.6	Yes	No	No	No	No	
	Custom paper size 5-2	431.9 to 457.2	139.7 to 194.9	Yes	No	No	No	No	
	Custom paper size 5-3	431.9 to 457.2	195 to 304.8	Yes	No	No	No	No	
	Custom paper size 5-4	431.9 to 457.2	304.9 to 320	Yes	No	No	No	No	
	Custom paper size 6-1	139.7 to 431.8	304.9 to 320	Yes	No	No	No	No	
	Custom paper size 7-1	457.3 to 1200	98 to 320	No	No	No	No	No	
	1-Sided Coated 3(221 to 256 g/m ²) 2-Sided Coated 3(221 to 256 g/m ²)	A3	420	297	Yes	No	No	No	No
		B4	364	257	Yes	No	No	No	No
A4R		297	210	Yes	No	No	No	No	
A4		210	297	Yes	No	No	No	No	
B5R		257	182	Yes	No	No	No	No	
B5		182	257	Yes	No	No	No	No	
A5		148	210	Yes	No	No	No	No	
A5R		210	148	Yes	No	No	No	No	
A6R		148	105	Yes	No	No	No	No	
11x17		431.8	279.4	Yes	No	No	No	No	
LGL		355.6	215.9	Yes	No	No	No	No	
LTR		215.9	279.4	Yes	No	No	No	No	
LTRR		279.4	215.9	Yes	No	No	No	No	
STMTR		215.9	139.7	Yes	No	No	No	No	
STMT		139.7	215.9	Yes	No	No	No	No	
SRA3		450	320	Yes	No	No	No	No	
12x18		457.2	304.8	Yes	No	No	No	No	
EXEC		184.1	266.7	Yes	No	No	No	No	
OFICIO		317.5	215.9	Yes	No	No	No	No	
E-OFICIO		320	220	Yes	No	No	No	No	
B-OFICIO	355	216	Yes	No	No	No	No		
M-OFICIO	341	216	Yes	No	No	No	No		
A-OFICIO	340	220	Yes	No	No	No	No		

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
1-Sided Coated 3(221 to 256 g/m ²) 2-Sided Coated 3(221 to 256 g/m ²)	A-LTR	220	280	Yes	No	No	No	No
	A-LTRR	280	220	Yes	No	No	No	No
	GLTR-R	266.7	203.2	Yes	No	No	No	No
	GLTR	203.2	266.7	Yes	No	No	No	No
	GLGL	330.2	203.2	Yes	No	No	No	No
	AFLS	337	206	Yes	No	No	No	No
	FLS	330.2	215.9	Yes	No	No	No	No
	K8	390	270	Yes	No	No	No	No
	K16	195	270	Yes	No	No	No	No
	K16R	270	195	Yes	No	No	No	No
	F4A	342.9	215.9	Yes	No	No	No	No
	I-LGL	345	215	Yes	No	No	No	No
	Free	139.7 to 457.2	98.4 to 320	Yes	No	No	No	No
	Free (Long length)	457.3 to 1200	98.4 to 320	No	No	No	No	No
	Custom paper size 1-1	98.4 to 139.6	98 to 297	No	No	No	No	No
	Custom paper size 1-2	98.4 to 139.6	297.1 to 304.8	No	No	No	No	No
	Custom paper size 1-3	98.4 to 139.6	304.9 to 320	No	No	No	No	No
	Custom paper size 1-4	139.7 to 147.9	98 to 128.4	Yes	No	No	No	No
	Custom paper size 1-6	139.7 to 147.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 1-5	148 to 181.9	98 to 128.5	Yes	No	No	No	No
	Custom paper size 1-7	148 to 181.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 2-1	182 to 215.9	98 to 128.5	Yes	No	No	No	No
	Custom paper size 2-2	182 to 215.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 2-3	139.7 to 147.9	139.7 to 297	Yes	No	No	No	No
	Custom paper size 2-4	139.7 to 181.9	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 2-5	148 to 181.9	139.7 to 297	Yes	No	No	No	No
	Custom paper size 2-6	182 to 215.9	139.7 to 181.9	Yes	No	No	No	No
	Custom paper size 2-7	182 to 215.9	182 to 209.9	Yes	No	No	No	No
	Custom paper size 2-8	182 to 215.9	210 to 256.9	Yes	No	No	No	No
	Custom paper size 3-1	182 to 194.9	257 to 297	Yes	No	No	No	No
	Custom paper size 3-2	195 to 215.9	257 to 269.9	Yes	No	No	No	No
	Custom paper size 3-3	195 to 215.9	270 to 297	Yes	No	No	No	No
	Custom paper size 3-4	182 to 215.9	297.1 to 304.8	Yes	No	No	No	No
Custom paper size 4-1	216 to 457.2	98 to 128.5	Yes	No	No	No	No	

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
1-Sided Coated 3(221 to 256 g/m ²) 2-Sided Coated 3(221 to 256 g/m ²)	Custom paper size 4-2	216 to 431.8	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 4-3	216 to 431.8	139.7 to 181.9	Yes	No	No	No	No
	Custom paper size 4-4	216 to 431.8	182 to 194.9	Yes	No	No	No	No
	Custom paper size 4-5	216 to 269.9	195 to 209.9	Yes	No	No	No	No
	Custom paper size 4-6	270 to 431.8	195 to 209.9	Yes	No	No	No	No
	Custom paper size 4-7	216 to 269.9	210 to 256.9	Yes	No	No	No	No
	Custom paper size 4-8	270 to 431.8	210 to 256.9	Yes	No	No	No	No
	Custom paper size 4-9	216 to 269.9	257 to 269.9	Yes	No	No	No	No
	Custom paper size 4-10	270 to 431.8	257 to 269.9	Yes	No	No	No	No
	Custom paper size 4-11	216 to 269.9	270 to 297	Yes	No	No	No	No
	Custom paper size 4-12	270 to 431.8	270 to 297	Yes	No	No	No	No
	Custom paper size 4-13	216 to 269.9	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 4-14	270 to 431.8	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 5-1	431.9 to 457.2	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 5-2	431.9 to 457.2	139.7 to 194.9	Yes	No	No	No	No
	Custom paper size 5-3	431.9 to 457.2	195 to 304.8	Yes	No	No	No	No
	Custom paper size 5-4	431.9 to 457.2	304.9 to 320	Yes	No	No	No	No
	Custom paper size 6-1	139.7 to 431.8	304.9 to 320	Yes	No	No	No	No
	Custom paper size 7-1	457.3 to 1200	98 to 320	No	No	No	No	No
	Washi (93 to 93 g/m ²) Tracing (64 to 81 g/m ²) Labels 1(118 to 185 g/m ²)	A4R	297	210	Yes	No	No	No
A4		210	297	Yes	No	No	No	No
A3		420	297	Yes	No	No	No	No
B4		364	257	Yes	No	No	No	No
A4R		297	210	Yes	No	No	No	No
A4		210	297	Yes	No	No	No	No
B5R		257	182	Yes	No	No	No	No
B5		182	257	Yes	No	No	No	No
A5		148	210	Yes	No	No	No	No
A5R		210	148	Yes	No	No	No	No
A6R		148	105	Yes	No	No	No	No
11x17		431.8	279.4	Yes	No	No	No	No
LGL		355.6	215.9	Yes	No	No	No	No
LTR		215.9	279.4	Yes	No	No	No	No
LTRR		279.4	215.9	Yes	No	No	No	No
STMTR		215.9	139.7	Yes	No	No	No	No
STMT		139.7	215.9	Yes	No	No	No	No
SRA3		450	320	Yes	No	No	No	No

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width di- rection (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Washi (93 to 93 g/m ²) Tracing (64 to 81 g/m ²) Labels 1(118 to 185 g/m ²)	12x18	457.2	304.8	Yes	No	No	No	No
	EXEC	184.1	266.7	Yes	No	No	No	No
	OFICIO	317.5	215.9	Yes	No	No	No	No
	E-OFICIO	320	220	Yes	No	No	No	No
	B-OFICIO	355	216	Yes	No	No	No	No
	M-OFICIO	341	216	Yes	No	No	No	No
	A-OFICIO	340	220	Yes	No	No	No	No
	A-LTR	220	280	Yes	No	No	No	No
	A-LTRR	280	220	Yes	No	No	No	No
	GLTR-R	266.7	203.2	Yes	No	No	No	No
	GLTR	203.2	266.7	Yes	No	No	No	No
	GLGL	330.2	203.2	Yes	No	No	No	No
	AFLS	337	206	Yes	No	No	No	No
	FLS	330.2	215.9	Yes	No	No	No	No
	K8	390	270	Yes	No	No	No	No
	K16	195	270	Yes	No	No	No	No
	K16R	270	195	Yes	No	No	No	No
	F4A	342.9	215.9	Yes	No	No	No	No
	I-LGL	345	215	Yes	No	No	No	No
	Free	139.7 to 457.2	98.4 to 320	Yes	No	No	No	No
	Free (Long length)	457.3 to 1200	98.4 to 320	No	No	No	No	No
	Custom paper size 1-1	98.4 to 139.6	98 to 297	No	No	No	No	No
	Custom paper size 1-2	98.4 to 139.6	297.1 to 304.8	No	No	No	No	No
	Custom paper size 1-3	98.4 to 139.6	304.9 to 320	No	No	No	No	No
	Custom paper size 1-4	139.7 to 147.9	98 to 128.4	Yes	No	No	No	No
	Custom paper size 1-6	139.7 to 147.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 1-5	148 to 181.9	98 to 128.5	Yes	No	No	No	No
	Custom paper size 1-7	148 to 181.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 2-1	182 to 215.9	98 to 128.5	Yes	No	No	No	No
	Custom paper size 2-2	182 to 215.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 2-3	139.7 to 147.9	139.7 to 297	Yes	No	No	No	No
	Custom paper size 2-4	139.7 to 181.9	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 2-5	148 to 181.9	139.7 to 297	Yes	No	No	No	No
Custom paper size 2-6	182 to 215.9	139.7 to 181.9	Yes	No	No	No	No	
Custom paper size 2-7	182 to 215.9	182 to 209.9	Yes	No	No	No	No	
Custom paper size 2-8	182 to 215.9	210 to 256.9	Yes	No	No	No	No	
Custom paper size 3-1	182 to 194.9	257 to 297	Yes	No	No	No	No	

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Washi (93 to 93 g/m ²) Tracing (64 to 81 g/m ²) Labels 1(118 to 185 g/m ²)	Custom paper size 3-2	195 to 215.9	257 to 269.9	Yes	No	No	No	No
	Custom paper size 3-3	195 to 215.9	270 to 297	Yes	No	No	No	No
	Custom paper size 3-4	182 to 215.9	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 4-1	216 to 457.2	98 to 128.5	Yes	No	No	No	No
	Custom paper size 4-2	216 to 431.8	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 4-3	216 to 431.8	139.7 to 181.9	Yes	No	No	No	No
	Custom paper size 4-4	216 to 431.8	182 to 194.9	Yes	No	No	No	No
	Custom paper size 4-5	216 to 269.9	195 to 209.9	Yes	No	No	No	No
	Custom paper size 4-6	270 to 431.8	195 to 209.9	Yes	No	No	No	No
	Custom paper size 4-7	216 to 269.9	210 to 256.9	Yes	No	No	No	No
	Custom paper size 4-8	270 to 431.8	210 to 256.9	Yes	No	No	No	No
	Custom paper size 4-9	216 to 269.9	257 to 269.9	Yes	No	No	No	No
	Custom paper size 4-10	270 to 431.8	257 to 269.9	Yes	No	No	No	No
	Custom paper size 4-11	216 to 269.9	270 to 297	Yes	No	No	No	No
	Custom paper size 4-12	270 to 431.8	270 to 297	Yes	No	No	No	No
	Custom paper size 4-13	216 to 269.9	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 4-14	270 to 431.8	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 5-1	431.9 to 457.2	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 5-2	431.9 to 457.2	139.7 to 194.9	Yes	No	No	No	No
	Custom paper size 5-3	431.9 to 457.2	195 to 304.8	Yes	No	No	No	No
Custom paper size 5-4	431.9 to 457.2	304.9 to 320	Yes	No	No	No	No	
Custom paper size 6-1	139.7 to 431.8	304.9 to 320	Yes	No	No	No	No	
Custom paper size 7-1	457.3 to 1200	98 to 320	No	No	No	No	No	
Clear film (121 to 220 g/m ²)	A3	420	297	Yes*2	No	Yes*2	Yes*2	Yes*2
	A4R	297	210	Yes*2	No	Yes*2	Yes*2	Yes*2
	A4	210	297	Yes*2	Yes*2	Yes*2	Yes*2	Yes*2
	11x17	431.8	279.4	Yes*2	No	Yes*2	Yes*2	Yes*2
	LTR	215.9	279.4	Yes*2	Yes*2	Yes*2	Yes*2	Yes*2
	LTRR	279.4	215.9	Yes*2	No	Yes*2	Yes*2	Yes*2
	Custom paper size 1-1	98.4 to 139.6	98 to 297	No	No	No	No	No
	Custom paper size 1-2	98.4 to 139.6	297.1 to 304.8	No	No	No	No	No

Type (paper weight: t/m2)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Clear film (121 to 220 g/m2)	Custom paper size 1-3	98.4 to 139.6	304.9 to 320	No	No	No	No	No
	Custom paper size 1-4	139.7 to 147.9	98 to 128.4	No	No	No	No	No
	Custom paper size 1-6	139.7 to 147.9	128.5 to 139.6	No	No	No	No	No
	Custom paper size 1-5	148 to 181.9	98 to 128.5	No	No	No	No	No
	Custom paper size 1-7	148 to 181.9	128.5 to 139.6	No	No	No	No	No
	Custom paper size 2-1	182 to 215.9	98 to 128.5	No	No	No	No	No
	Custom paper size 2-2	182 to 215.9	128.5 to 139.6	No	No	No	No	No
	Custom paper size 2-3	139.7 to 147.9	139.7 to 297	No	No	No	No	No
	Custom paper size 2-4	139.7 to 181.9	297.1 to 304.8	No	No	No	No	No
	Custom paper size 2-5	148 to 181.9	139.7 to 297	No	No	No	No	No
	Custom paper size 2-6	182 to 215.9	139.7 to 181.9	No	No	No	No	No
	Custom paper size 2-7	182 to 215.9	182 to 209.9	No	No	No	No	No
	Custom paper size 2-8	182 to 215.9	210 to 256.9	No	No	No	No	No
	Custom paper size 3-1	182 to 194.9	257 to 297	No	No	No	No	No
	Custom paper size 3-2	195 to 215.9	257 to 269.9	Yes*2	No	Yes*2	Yes*2	Yes*2
	Custom paper size 3-3	195 to 215.9	270 to 297	Yes*2	No	Yes*2	Yes*2	Yes*2
	Custom paper size 3-4	182 to 215.9	297.1 to 304.8	No	No	No	No	No
	Custom paper size 4-1	216 to 457.2	98 to 128.5	No	No	No	No	No
	Custom paper size 4-2	216 to 431.8	128.5 to 139.6	No	No	No	No	No
	Custom paper size 4-3	216 to 431.8	139.7 to 181.9	No	No	No	No	No
	Custom paper size 4-4	216 to 431.8	182 to 194.9	No	No	No	No	No
	Custom paper size 4-5	216 to 269.9	195 to 209.9	No	No	No	No	No
	Custom paper size 4-6	270 to 431.8	195 to 209.9	No	No	No	No	No
	Custom paper size 4-7	216 to 269.9	210 to 256.9	Yes*2	No	Yes*2	Yes*2	Yes*2
	Custom paper size 4-8	270 to 431.8	210 to 256.9	Yes*2	No	Yes*2	Yes*2	Yes*2
	Custom paper size 4-9	216 to 269.9	257 to 269.9	Yes*2	No	Yes*2	Yes*2	Yes*2
	Custom paper size 4-10	270 to 431.8	257 to 269.9	Yes*2	No	Yes*2	Yes*2	Yes*2
	Custom paper size 4-11	216 to 269.9	270 to 297	Yes*2	No	Yes*2	Yes*2	Yes*2
	Custom paper size 4-12	270 to 431.8	270 to 297	Yes*2	No	Yes*2	Yes*2	Yes*2

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Clear film (121 to 220 g/m ²)	Custom paper size 4-13	216 to 269.9	297.1 to 304.8	No	No	No	No	No
	Custom paper size 4-14	270 to 431.8	297.1 to 304.8	No	No	No	No	No
	Custom paper size 5-1	431.9 to 457.2	128.5 to 139.6	No	No	No	No	No
	Custom paper size 5-2	431.9 to 457.2	139.7 to 194.9	No	No	No	No	No
	Custom paper size 5-3	431.9 to 457.2	195 to 304.8	No	No	No	No	No
	Custom paper size 5-4	431.9 to 457.2	304.9 to 320	No	No	No	No	No
	Custom paper size 6-1	139.7 to 431.8	304.9 to 320	No	No	No	No	No
	Custom paper size 7-1	457.3 to 1200	98 to 320	No	No	No	No	No
Transparency (121 to 220 g/m ²)	A4	210	297	Yes	Yes	Yes	Yes	Yes
	LTR	215.9	279.4	Yes	Yes	Yes	Yes	Yes
Bond paper 1 (82 to 99 g/m ²)	LTR	215.9	279.4	Yes	Yes	Yes	Yes	Yes
	LTRR	279.4	215.9	Yes	No	Yes	Yes	Yes
	EXEC	184.1	266.7	Yes	Yes	Yes	Yes	Yes
Postcard, Reply postcard, 4 on 1 postcard (164 to 220 g/m ²)	Postcard	148	100	Yes	Yes	Yes	Yes	Yes
	Reply Postcard	200	148	Yes	Yes	Yes	Yes	Yes
	4 on 1 postcard	200	296	Yes	Yes	Yes	Yes	Yes
Tab Paper 1(91 to 105 g/m ²)	A4	210	297	Yes	No	Yes	No	No
	LTR	215.9	279.4	Yes	No	Yes	No	No
Tab Paper 2(106 to 128 g/m ²)	A4	210	297	Yes	No	Yes	No	No
	LTR	215.9	279.4	Yes	No	Yes	No	No
Tab Paper 3(129 to 150 g/m ²) Tab Paper 4(151 to 220 g/m ²)	A4	210	297	Yes	No	Yes	No	No
	LTR	215.9	279.4	Yes	No	Yes	No	No
Pre-Punched paper 1(64 to 81 g/m ²)	A3	420	297	Yes	No	Yes	Yes	Yes
	B4	364	257	Yes	No	Yes	Yes	Yes
	A4R	297	210	Yes	No	Yes	Yes	Yes
	A4	210	297	Yes	Yes	Yes	Yes	Yes
	B5R	257	182	Yes	No	Yes	Yes	Yes
	B5	182	257	Yes	Yes	Yes	Yes	Yes
	A5	148	210	Yes	Yes	Yes	Yes	Yes
	A5R	210	148	Yes	Yes	Yes	Yes	Yes
	A6R	148	105	Yes	Yes	Yes	Yes	Yes
	11x17	431.8	279.4	Yes	No	Yes	Yes	Yes
	LGL	355.6	215.9	Yes	No	Yes	Yes	Yes
	LTR	215.9	279.4	Yes	Yes	Yes	Yes	Yes
	LTRR	279.4	215.9	Yes	No	Yes	Yes	Yes
	STMTR	215.9	139.7	Yes	Yes	Yes	Yes	Yes
	STMT	139.7	215.9	Yes	No	No	No	No
	SRA3	450	320	Yes	No	No	No	No
	12x18	457.2	304.8	Yes	No	Yes	Yes	Yes
	EXEC	184.1	266.7	Yes	Yes	Yes	Yes	Yes
	OFICIO	317.5	215.9	Yes	No	Yes	Yes	Yes
	E-OFICIO	320	220	Yes	No	Yes	Yes	Yes
B-OFICIO	355	216	Yes	No	Yes	Yes	Yes	
M-OFICIO	341	216	Yes	No	Yes	Yes	Yes	

Type (paper weight: t/m2)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Pre-Punched paper 1(64 to 81 g/m2)	A-OFICIO	340	220	Yes	No	Yes	Yes	Yes
	A-LTR	220	280	Yes	No	Yes	Yes	Yes
	A-LTRR	280	220	Yes	No	Yes	Yes	Yes
	GLTR-R	266.7	203.2	Yes	No	Yes	Yes	Yes
	GLTR	203.2	266.7	Yes	No	Yes	Yes	Yes
	GLGL	330.2	203.2	Yes	No	Yes	Yes	Yes
	AFLS	337	206	Yes	No	Yes	Yes	Yes
	FLS	330.2	215.9	Yes	No	Yes	Yes	Yes
	K8	390	270	Yes	No	Yes	Yes	Yes
	K16	195	270	Yes	Yes	Yes	Yes	Yes
	K16R	270	195	Yes	No	Yes	Yes	Yes
	F4A	342.9	215.9	Yes	No	Yes	Yes	Yes
	I-LGL	345	215	Yes	No	Yes	Yes	Yes
	Free	139.7 to 457.2	98.4 to 320	Yes	No	No	No	No
	Free (Long length)	457.3 to 1200	98.4 to 320	No	No	No	No	No
	Custom paper size 1-1	98.4 to 139.6	98 to 297	No	No	No	No	No
	Custom paper size 1-2	98.4 to 139.6	297.1 to 304.8	No	No	No	No	No
	Custom paper size 1-3	98.4 to 139.6	304.9 to 320	No	No	No	No	No
	Custom paper size 1-4	139.7 to 147.9	98 to 128.4	Yes	No	No	No	No
	Custom paper size 1-6	139.7 to 147.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 1-5	148 to 181.9	98 to 128.5	Yes	Yes	Yes	Yes	Yes
	Custom paper size 1-7	148 to 181.9	128.5 to 139.6	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-1	182 to 215.9	98 to 128.5	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-2	182 to 215.9	128.5 to 139.6	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-3	139.7 to 147.9	139.7 to 297	Yes	No	No	No	No
	Custom paper size 2-4	139.7 to 181.9	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 2-5	148 to 181.9	139.7 to 297	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-6	182 to 215.9	139.7 to 181.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-7	182 to 215.9	182 to 209.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-8	182 to 215.9	210 to 256.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-1	182 to 194.9	257 to 297	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-2	195 to 215.9	257 to 269.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-3	195 to 215.9	270 to 297	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-4	182 to 215.9	297.1 to 304.8	Yes	No	Yes	Yes	Yes

Type (paper weight: t/m2)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Pre-Punched paper 1(64 to 81 g/m2)	Custom paper size 4-1	216 to 457.2	98 to 128.5	Yes	No	Yes	Yes	Yes
	Custom paper size 4-2	216 to 431.8	128.5 to 139.6	Yes	No	Yes	Yes	Yes
	Custom paper size 4-3	216 to 431.8	139.7 to 181.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-4	216 to 431.8	182 to 194.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-5	216 to 269.9	195 to 209.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-6	270 to 431.8	195 to 209.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-7	216 to 269.9	210 to 256.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-8	270 to 431.8	210 to 256.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-9	216 to 269.9	257 to 269.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-10	270 to 431.8	257 to 269.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-11	216 to 269.9	270 to 297	Yes	No	Yes	Yes	Yes
	Custom paper size 4-12	270 to 431.8	270 to 297	Yes	No	Yes	Yes	Yes
	Custom paper size 4-13	216 to 269.9	297.1 to 304.8	Yes	No	Yes	Yes	Yes
	Custom paper size 4-14	270 to 431.8	297.1 to 304.8	Yes	No	Yes	Yes	Yes
	Custom paper size 5-1	431.9 to 457.2	128.5 to 139.6	Yes	No	Yes	Yes	Yes
	Custom paper size 5-2	431.9 to 457.2	139.7 to 194.9	Yes	No	Yes	Yes	Yes
	Custom paper size 5-3	431.9 to 457.2	195 to 304.8	Yes	No	Yes	Yes	Yes
	Custom paper size 5-4	431.9 to 457.2	304.9 to 320	Yes	No	No	No	No
	Custom paper size 6-1	139.7 to 431.8	304.9 to 320	Yes	No	No	No	No
	Custom paper size 7-1	457.3 to 1200	98 to 320	No	No	No	No	No
	Envelope (75 to 105 g/m2)	COM10_R	241.3	104.7	Yes	No	Yes	No
Monarch_R		190.5	98.4	Yes	No	Yes	No	No
ISO-C5_R		229	162	Yes	No	Yes	No	No
DL-R		220	110	Yes	No	Yes	No	No
Nagagata 3_R		235	120	Yes	No	Yes	No	No
Yougatanaga 3_R		235	120	Yes	No	Yes	No	No
Kakugata 2_R		332	240	Yes	No	Yes	No	No
COM10		104.7	241.3	Yes	Yes	No	No	No
Monarch		98.4	190.5	Yes	No	No	No	No
ISO-C5		162	229	Yes	Yes	No	No	No
DL		110	220	Yes	Yes	No	No	No
Nagagata 3		120	235	Yes	Yes	No	No	No
Yougatanaga 3		120	235	Yes	Yes	No	No	No
Free		139.7 to 457.2	98.4 to 320	No	No	No	No	No

Type (paper weight: t/m2)	Size	Feeding direction (mm)	Width di- rection (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Envelope (75 to 105 g/m2)	Free (Long length)	457.3 to 1200	98.4 to 320	No	No	No	No	No
	Custom paper size 1-1	98.4 to 139.6	98 to 297	Yes	No	No	No	No
	Custom paper size 1-2	98.4 to 139.6	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 1-3	98.4 to 139.6	304.9 to 320	Yes	No	No	No	No
	Custom paper size 1-4	139.7 to 147.9	98 to 128.4	Yes	No	No	No	No
	Custom paper size 1-6	139.7 to 147.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 1-5	148 to 181.9	98 to 128.5	Yes	No	No	No	No
	Custom paper size 1-7	148 to 181.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 2-1	182 to 215.9	98 to 128.5	Yes	No	No	No	No
	Custom paper size 2-2	182 to 215.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 2-3	139.7 to 147.9	139.7 to 297	Yes	No	No	No	No
	Custom paper size 2-4	139.7 to 181.9	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 2-5	148 to 181.9	139.7 to 297	Yes	No	No	No	No
	Custom paper size 2-6	182 to 215.9	139.7 to 181.9	Yes	No	No	No	No
	Custom paper size 2-7	182 to 215.9	182 to 209.9	Yes	No	No	No	No
	Custom paper size 2-8	182 to 215.9	210 to 256.9	Yes	No	No	No	No
	Custom paper size 3-1	182 to 194.9	257 to 297	Yes	No	No	No	No
	Custom paper size 3-2	195 to 215.9	257 to 269.9	Yes	No	No	No	No
	Custom paper size 3-3	195 to 215.9	270 to 297	Yes	No	No	No	No
	Custom paper size 3-4	182 to 215.9	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 4-1	216 to 457.2	98 to 128.5	Yes	No	No	No	No
	Custom paper size 4-2	216 to 431.8	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 4-3	216 to 431.8	139.7 to 181.9	Yes	No	No	No	No
	Custom paper size 4-4	216 to 431.8	182 to 194.9	Yes	No	No	No	No
	Custom paper size 4-5	216 to 269.9	195 to 209.9	Yes	No	No	No	No
	Custom paper size 4-6	270 to 431.8	195 to 209.9	Yes	No	No	No	No
	Custom paper size 4-7	216 to 269.9	210 to 256.9	Yes	No	No	No	No
	Custom paper size 4-8	270 to 431.8	210 to 256.9	Yes	No	No	No	No
	Custom paper size 4-9	216 to 269.9	257 to 269.9	Yes	No	No	No	No

Type (paper weight: t/m2)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Envelope (75 to 105 g/m2)	Custom paper size 4-10	270 to 431.8	257 to 269.9	Yes	No	No	No	No
	Custom paper size 4-11	216 to 269.9	270 to 297	Yes	No	No	No	No
	Custom paper size 4-12	270 to 431.8	270 to 297	Yes	No	No	No	No
	Custom paper size 4-13	216 to 269.9	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 4-14	270 to 431.8	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 5-1	431.9 to 457.2	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 5-2	431.9 to 457.2	139.7 to 194.9	Yes	No	No	No	No
	Custom paper size 5-3	431.9 to 457.2	195 to 304.8	Yes	No	No	No	No
	Custom paper size 5-4	431.9 to 457.2	304.9 to 320	Yes	No	No	No	No
	Custom paper size 6-1	139.7 to 431.8	304.9 to 320	Yes	No	No	No	No
	Custom paper size 7-1	457.3 to 1200	98 to 320	No	No	No	No	No
Letterhead (106 to 163 g/m2)	A3	420	297	Yes	No	Yes	Yes	Yes
	B4	364	257	Yes	No	Yes	Yes	Yes
	A4R	297	210	Yes	No	Yes	Yes	Yes
	A4	210	297	Yes	Yes	Yes	Yes	Yes
	B5R	257	182	Yes	No	Yes	Yes	Yes
	B5	182	257	Yes	Yes	Yes	Yes	Yes
	A5	148	210	Yes	Yes	Yes	Yes	Yes
	A5R	210	148	Yes	Yes	Yes	Yes	Yes
	A6R	148	105	Yes	Yes	Yes	Yes	Yes
	11x17	431.8	279.4	Yes	No	Yes	Yes	Yes
	LGL	355.6	215.9	Yes	No	Yes	Yes	Yes
	LTR	215.9	279.4	Yes	Yes	Yes	Yes	Yes
	LTRR	279.4	215.9	Yes	No	Yes	Yes	Yes
	STMTR	215.9	139.7	Yes	Yes	Yes	Yes	Yes
	STMT	139.7	215.9	Yes	No	No	No	No
	SRA3	450	320	Yes	No	No	No	No
	12x18	457.2	304.8	Yes	No	Yes	Yes	Yes
	EXEC	184.1	266.7	Yes	Yes	Yes	Yes	Yes
	OFICIO	317.5	215.9	Yes	No	Yes	Yes	Yes
	E-OFICIO	320	220	Yes	No	Yes	Yes	Yes
	B-OFICIO	355	216	Yes	No	Yes	Yes	Yes
	M-OFICIO	341	216	Yes	No	Yes	Yes	Yes
	A-OFICIO	340	220	Yes	No	Yes	Yes	Yes
	A-LTR	220	280	Yes	No	Yes	Yes	Yes
	A-LTRR	280	220	Yes	No	Yes	Yes	Yes
	GLTR-R	266.7	203.2	Yes	No	Yes	Yes	Yes
	GLTR	203.2	266.7	Yes	No	Yes	Yes	Yes
GLGL	330.2	203.2	Yes	No	Yes	Yes	Yes	
AFLS	337	206	Yes	No	Yes	Yes	Yes	
FLS	330.2	215.9	Yes	No	Yes	Yes	Yes	
K8	390	270	Yes	No	Yes	Yes	Yes	
K16	195	270	Yes	Yes	Yes	Yes	Yes	

Type (paper weight: t/m2)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Letterhead (106 to 163 g/m2)	K16R	270	195	Yes	No	Yes	Yes	Yes
	F4A	342.9	215.9	Yes	No	Yes	Yes	Yes
	I-LGL	345	215	Yes	No	Yes	Yes	Yes
	Free	139.7 to 457.2	98.4 to 320	Yes	No	No	No	No
	Free (Long length)	457.3 to 1200	98.4 to 320	Yes*1	No	No	No	No
	Custom paper size 1-1	98.4 to 139.6	98 to 297	No	No	No	No	No
	Custom paper size 1-2	98.4 to 139.6	297.1 to 304.8	No	No	No	No	No
	Custom paper size 1-3	98.4 to 139.6	304.9 to 320	No	No	No	No	No
	Custom paper size 1-4	139.7 to 147.9	98 to 128.4	Yes	No	No	No	No
	Custom paper size 1-6	139.7 to 147.9	128.5 to 139.6	Yes	No	No	No	No
	Custom paper size 1-5	148 to 181.9	98 to 128.5	Yes	Yes	Yes	Yes	Yes
	Custom paper size 1-7	148 to 181.9	128.5 to 139.6	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-1	182 to 215.9	98 to 128.5	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-2	182 to 215.9	128.5 to 139.6	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-3	139.7 to 147.9	139.7 to 297	Yes	No	No	No	No
	Custom paper size 2-4	139.7 to 181.9	297.1 to 304.8	Yes	No	No	No	No
	Custom paper size 2-5	148 to 181.9	139.7 to 297	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-6	182 to 215.9	139.7 to 181.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-7	182 to 215.9	182 to 209.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 2-8	182 to 215.9	210 to 256.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-1	182 to 194.9	257 to 297	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-2	195 to 215.9	257 to 269.9	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-3	195 to 215.9	270 to 297	Yes	Yes	Yes	Yes	Yes
	Custom paper size 3-4	182 to 215.9	297.1 to 304.8	Yes	No	Yes	Yes	Yes
	Custom paper size 4-1	216 to 457.2	98 to 128.5	Yes	No	Yes	Yes	Yes
	Custom paper size 4-2	216 to 431.8	128.5 to 139.6	Yes	No	Yes	Yes	Yes
	Custom paper size 4-3	216 to 431.8	139.7 to 181.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-4	216 to 431.8	182 to 194.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-5	216 to 269.9	195 to 209.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-6	270 to 431.8	195 to 209.9	Yes	No	Yes	Yes	Yes

Type (paper weight: t/m ²)	Size	Feeding direction (mm)	Width direction (mm)	Pickup position				
				MP Tray	CST 1	CST 2	CST 3	CST 4
Letterhead (106 to 163 g/m ²)	Custom paper size 4-7	216 to 269.9	210 to 256.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-8	270 to 431.8	210 to 256.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-9	216 to 269.9	257 to 269.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-10	270 to 431.8	257 to 269.9	Yes	No	Yes	Yes	Yes
	Custom paper size 4-11	216 to 269.9	270 to 297	Yes	No	Yes	Yes	Yes
	Custom paper size 4-12	270 to 431.8	270 to 297	Yes	No	Yes	Yes	Yes
	Custom paper size 4-13	216 to 269.9	297.1 to 304.8	Yes	No	Yes	Yes	Yes
	Custom paper size 4-14	270 to 431.8	297.1 to 304.8	Yes	No	Yes	Yes	Yes
	Custom paper size 5-1	431.9 to 457.2	128.5 to 139.6	Yes	No	Yes	Yes	Yes
	Custom paper size 5-2	431.9 to 457.2	139.7 to 194.9	Yes	No	Yes	Yes	Yes
	Custom paper size 5-3	431.9 to 457.2	195 to 304.8	Yes	No	Yes	Yes	Yes
	Custom paper size 5-4	431.9 to 457.2	304.9 to 320	Yes	No	No	No	No
	Custom paper size 6-1	139.7 to 431.8	304.9 to 320	Yes	No	No	No	No
	Custom paper size 7-1	457.3 to 1200	98 to 320	Yes*1	No	No	No	No

*1: It is necessary to set "1" in the following service mode (Lv.2).

COPIER > OPTION > USER > MF-LG-ST

*2: It is necessary to set "1" in the following service mode (Lv.2).

COPIER > OPTION > USER > FLM-DSPL

Custom paper size

See the table below for the custom paper size.

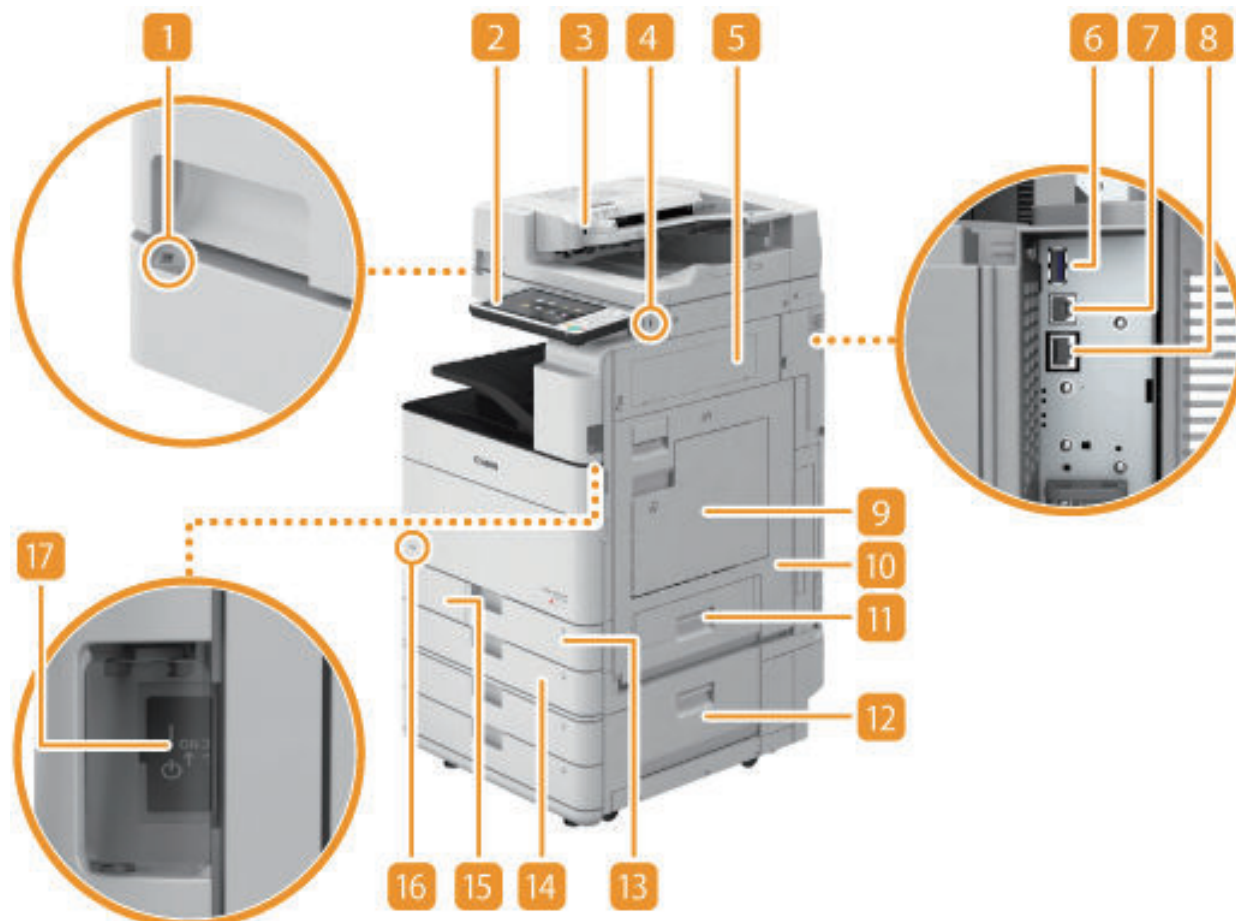
Size	Feeding direction (mm)	Width direction (mm)
Custom paper size 1-1	98.4 to 139.6	98 to 297
Custom paper size 1-2	98.4 to 139.6	297.1 to 304.8
Custom paper size 1-3	98.4 to 139.6	304.9 to 320
Custom paper size 1-4	139.7 to 147.9	98 to 128.4
Custom paper size 1-6	139.7 to 147.9	128.5 to 139.6
Custom paper size 1-5	148 to 181.9	98 to 128.5
Custom paper size 1-7	148 to 181.9	128.5 to 139.6
Custom paper size 2-1	182 to 215.9	98 to 128.5
Custom paper size 2-2	182 to 215.9	128.5 to 139.6
Custom paper size 2-3	139.7 to 147.9	139.7 to 297
Custom paper size 2-4	139.7 to 181.9	297.1 to 304.8
Custom paper size 2-5	148 to 181.9	139.7 to 297
Custom paper size 2-6	182 to 215.9	139.7 to 181.9
Custom paper size 2-7	182 to 215.9	182 to 209.9
Custom paper size 2-8	182 to 215.9	210 to 256.9
Custom paper size 3-1	182 to 194.9	257 to 297
Custom paper size 3-2	195 to 215.9	257 to 269.9
Custom paper size 3-3	195 to 215.9	270 to 297

Size	Feeding direction (mm)	Width direction (mm)
Custom paper size 3-4	182 to 215.9	297.1 to 304.8
Custom paper size 4-1	216 to 457.2	98 to 128.5
Custom paper size 4-2	216 to 431.8	128.5 to 139.6
Custom paper size 4-3	216 to 431.8	139.7 to 181.9
Custom paper size 4-4	216 to 431.8	182 to 194.9
Custom paper size 4-5	216 to 269.9	195 to 209.9
Custom paper size 4-6	270 to 431.8	195 to 209.9
Custom paper size 4-7	216 to 269.9	210 to 256.9
Custom paper size 4-8	270 to 431.8	210 to 256.9
Custom paper size 4-9	216 to 269.9	257 to 269.9
Custom paper size 4-10	270 to 431.8	257 to 269.9
Custom paper size 4-11	216 to 269.9	270 to 297
Custom paper size 4-12	270 to 431.8	270 to 297
Custom paper size 4-13	216 to 269.9	297.1 to 304.8
Custom paper size 4-14	270 to 431.8	297.1 to 304.8
Custom paper size 5-1	431.9 to 457.2	128.5 to 139.6
Custom paper size 5-2	431.9 to 457.2	139.7 to 194.9
Custom paper size 5-3	431.9 to 457.2	195 to 304.8
Custom paper size 5-4	431.9 to 457.2	304.9 to 320
Custom paper size 6-1	139.7 to 431.8	304.9 to 320
Custom paper size 7-1	457.3 to 1200	98 to 320

Parts Name

External View

Front side of the machine

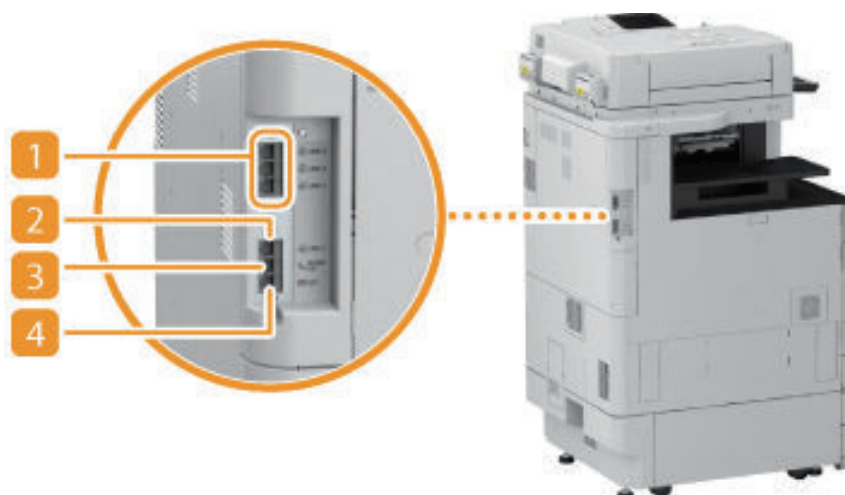


No.	Name	No.	Name
1	Motion Sensor	10	Right Lower Cover
2	Control Panel	11	Right Lower Door
3	ADF	12	Cassette Right Door
4	USB Port (Right Front)	13	Cassette 1
5	Right Upper Cover	14	Cassette 2
6	USB Port (Right Rear)	15	Waste Toner Cover
7	USB Connector	16	Toner Identification Mark
8	LAN Port	17	Main Power Supply Switch
9	Multi-purpose Tray		



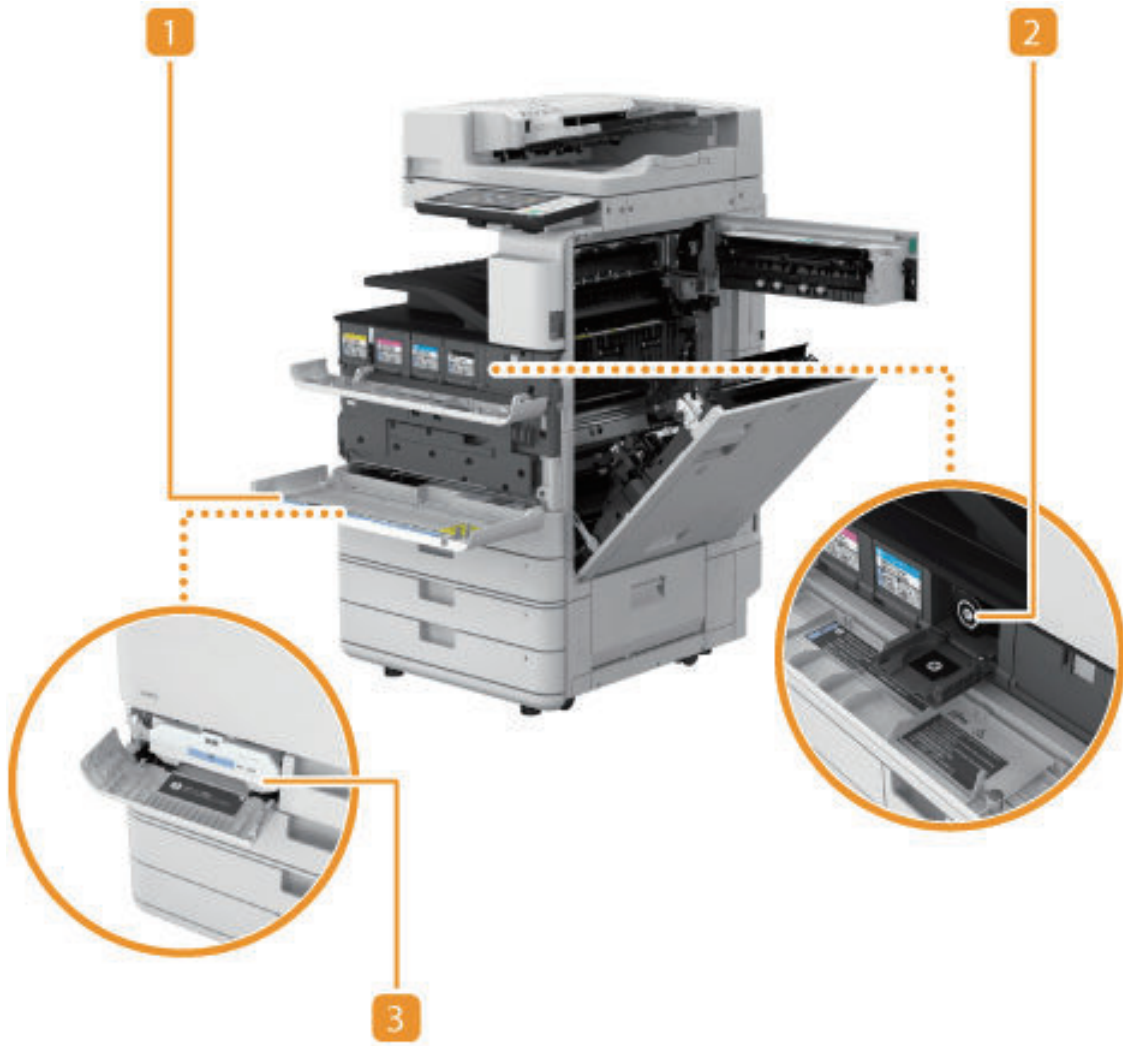
No.	Name	No.	Name
18	Glass Cleaning Sheet Storage Box	21	Toner Replacement Cover
19	Delivery Tray	22	Push-out Stopper
20	Front Cover		

■ Rear side of the machine



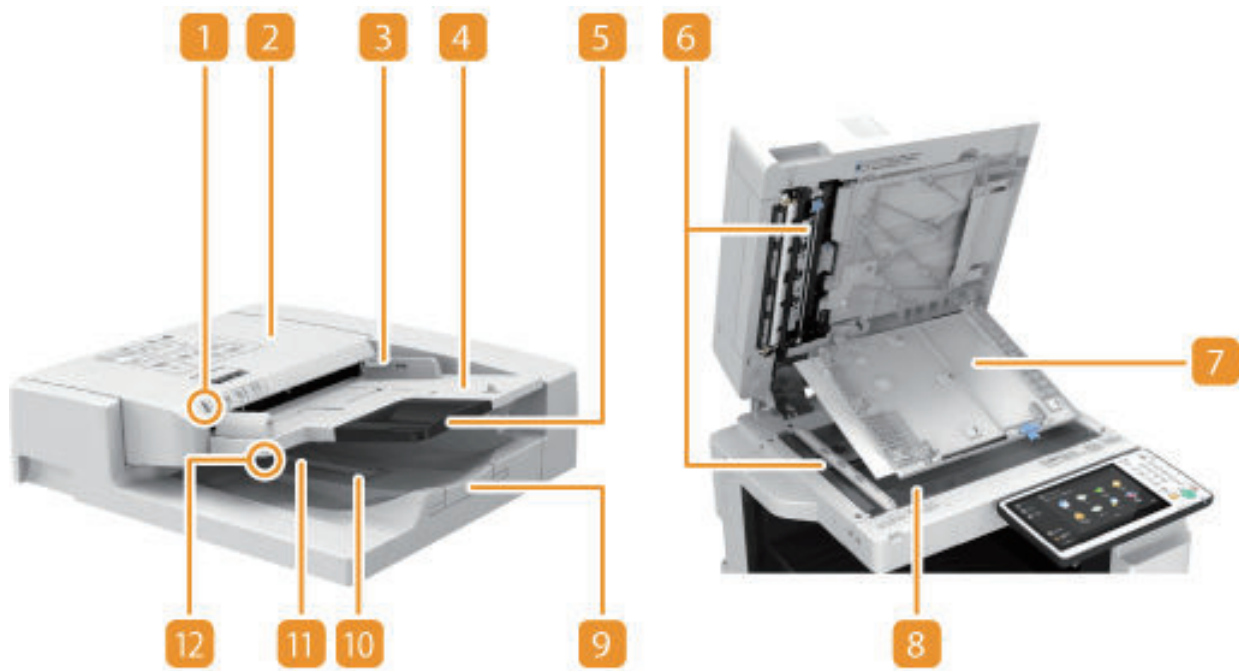
No.	Name	No.	Name
1	Extension phone line terminal (LINE 4/LINE 3/LINE 2 from above)	3	Handset connection terminal (Handset)
2	Phone line terminal (LINE 1)	4	External phone terminal (EXT.)

■ Inside of the host machine



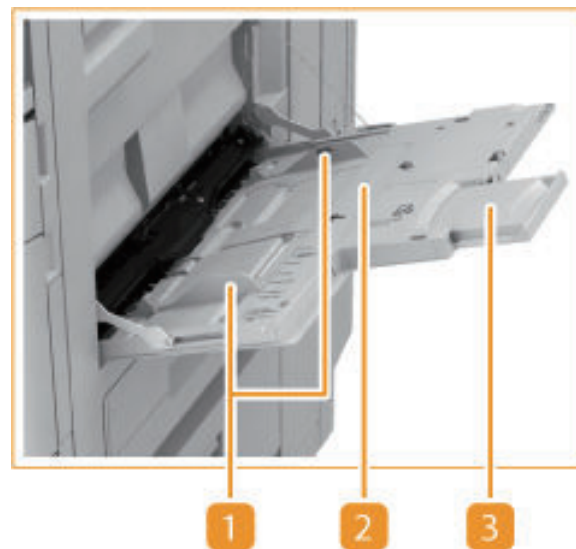
No.	Name	No.	Name
1	Dustproof Glass Cleaning Tool	3	Waste Toner Container
2	Toner Container		

■ ADF/Reader



No.	Name	No.	Name
1	Document Set Lamp	7	Document Read Area Cover
2	ADF Upper Cover	8	Copyboard Glass
3	Slide Guide	9	Document Delivery Extension Tray
4	Document Pickup Tray	10	Document Stopper
5	Document Pickup Extension Tray	11	Document Delivery Tray
6	Document Read Area	12	Unremoved Document Lamp

■ Multi-purpose Tray



No.	Name	No.	Name
1	Multi-purpose Tray Pickup Side Guide Plate	3	Multi-purpose Tray Pickup Sub Tray
2	Multi-purpose Tray		

■ Cassette

Cassette 1

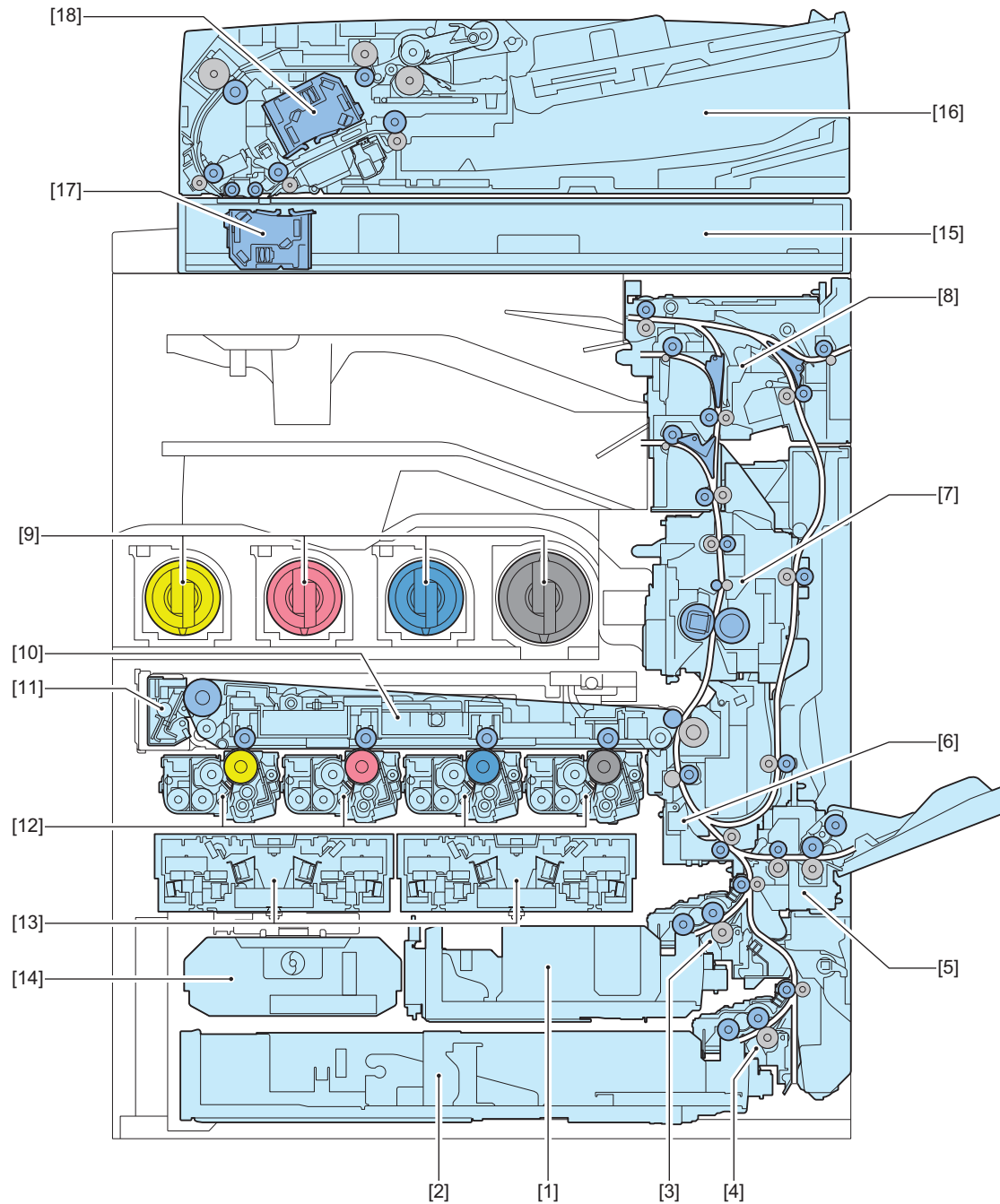


Cassette 2



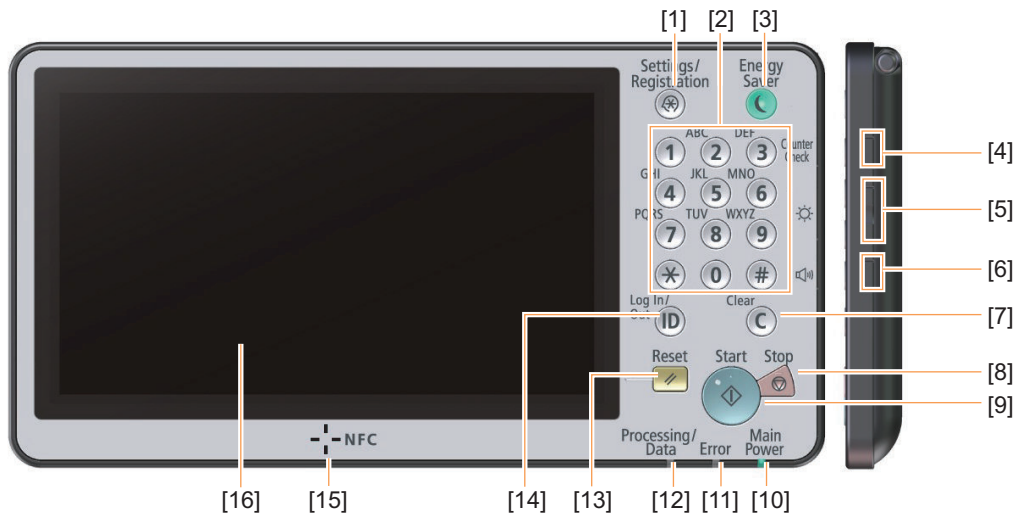
No.	Name	No.	Name
1	Trailing Edge Guide Plate	2	Side Guide Plate

Cross Section View



No.	Name	No.	Name
[1]	Cassette 1	[10]	ITB Unit
[2]	Cassette 2	[11]	ITB Cleaner Unit
[3]	Cassette 1 Pickup Unit	[12]	Developing Assembly + Drum Unit
[4]	Cassette 2 Pickup Unit	[13]	Laser Scanner Unit
[5]	Multi-purpose Tray Pickup Unit	[14]	Waste Toner Container
[6]	Registration Unit	[15]	Reader Unit
[7]	Fixing Assembly	[16]	ADF Unit
[8]	Duplex/Delivery Unit	[17]	Reader Scanner Unit
[9]	Toner Bottle	[18]	ADF Scanner Unit

Control Panel



No.	Name
[1]	[Settings/Registration] key
[2]	Numeric keys
[3]	[Energy Saver] key
[4]	[Counter/Device Information] key
[5]	Brightness Adjustment key
[6]	Settings key
[7]	[Clear] key
[8]	[Stop] key
[9]	[Start] key
[10]	Main Power indicator
[11]	Error indicator
[12]	Processing/Data indicator
[13]	[Reset] key
[14]	ID (Log In/Out) key
[15]	NFC (If equipped with NFC Kit-B1)
[16]	Touch panel display



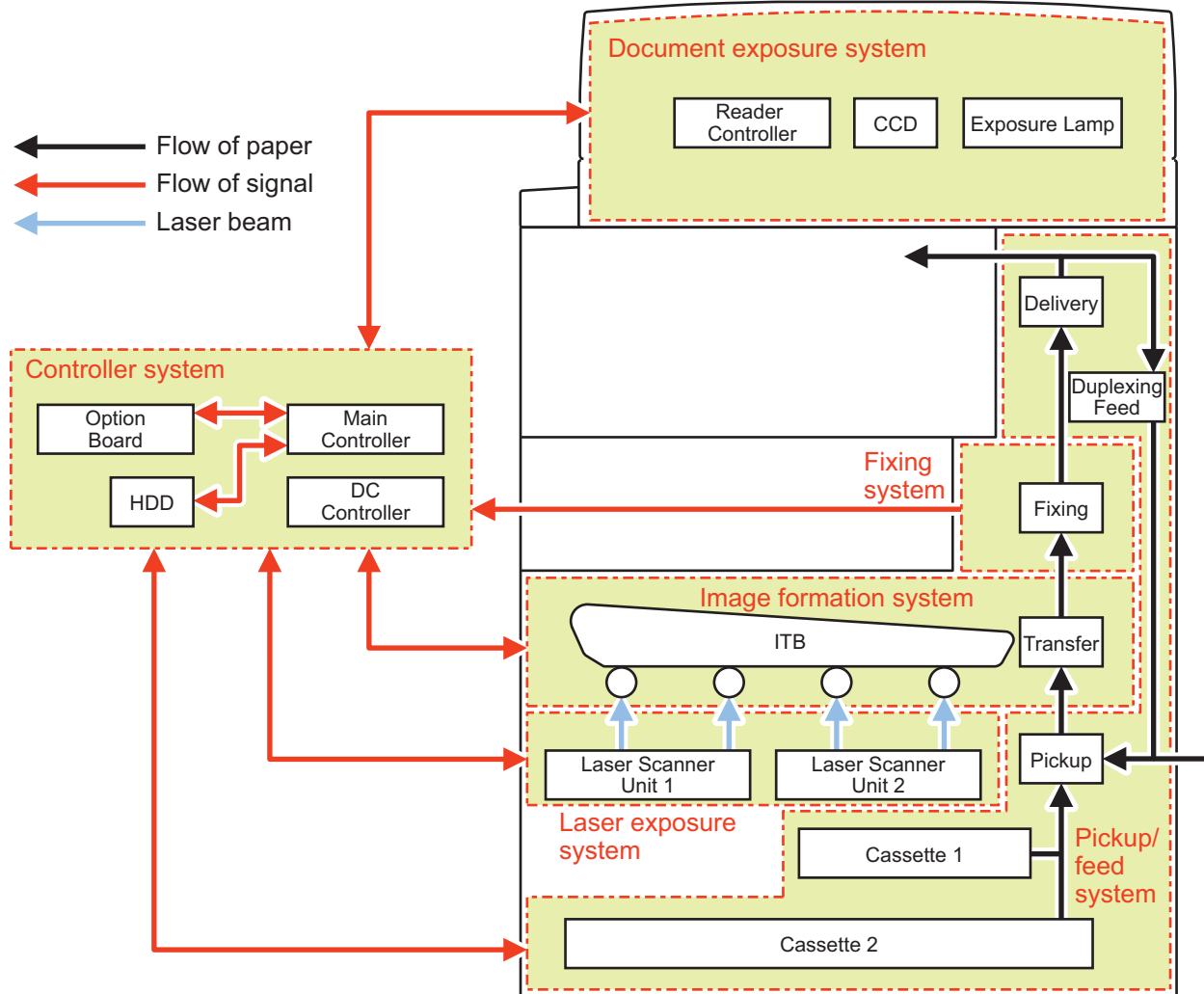
Technology

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Fixing System.....	144
Pickup Feed System.....	155
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Basic Configuration

Functional Configuration

The machine may broadly be divided into the following functional system blocks; document exposure system block, controller system block, laser exposure system block, image formation system block, fixing system block and pickup/feed system block.



Original Exposure System

Overview

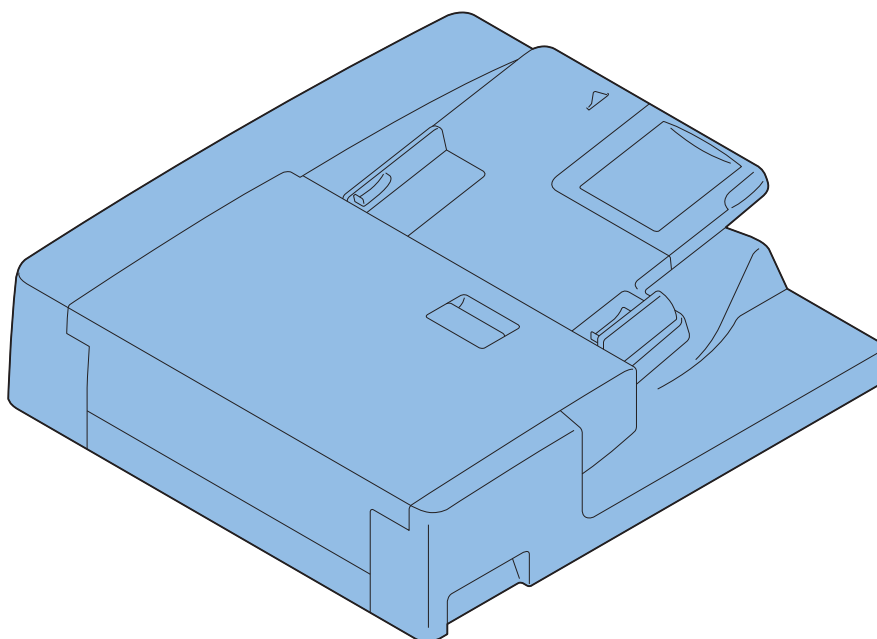
■ Features

● Reader Assembly

- Productivity has been increased by improving the original reading speed.

● ADF

- Low energy consumption by adopting a new Scanner Unit
- Realization of a compact Scanner Unit by adopting a new lens unit
- Increase in the supported original basis weight
- The double feed detection function added



■ Specifications

● Reader system

Item	Specifications/functions	Remarks
Exposure object	White high luminance LED + exposure object	-
Original scanning	When in Book Mode Scanning by shifting the Scanner Unit When using ADF Original stream reading by fixing the Scanner Unit	-
Reading resolution	600 dpi x 600 dpi	
Number of gradations	256 gradations	-
Magnification Ratio	25% to 400%	Black & White: Scan magnification (skipping of 2 vertical scanning lines: 25% to 50%) Color: Digital magnification
	Horizontal scanning direction Image processing on the Main Controller PCB Vertical scanning direction Image processing on the Main Controller PCB	Horizontal scanning direction - Vertical scanning direction Partly processed on the Reader Controller PCB
Number of sensor lines to read	4 lines (R, G, B, B/W)	-

Item	Specifications/functions	Remarks
Original size detection	Horizontal scanning direction Detected by Reading Sensor (Scanner Unit) Vertical scanning direction Detected by Reflective Sensor (Page Size Sensor 1 (AB configuration) or Page Size Sensor 2 (Inch configuration))	-
Maximum document size	When in Book Mode 297 mm x 431.8 mm When using ADF 304.8 mm x 630 mm	-

• ADF Assembly

Item	Specification	Remarks
Document Pickup Method	Automatic pickup/delivery method	Simultaneous duplex reading
Original Type	Sheet original	-
Document basis weight	1-sided <ul style="list-style-type: none"> • A/B: 38 to 157 g/m² • Inch: 50 to 157 g/m² 2-sided 50 to 157 g/m ² Color document 64 to 157 g/m ²	1-sided <ul style="list-style-type: none"> • A/B size originals of 38 g/m² or more to less than 42 g/m² must be 257 mm or more in width (B5 size) and must be fed by one side by one side. • A/B size originals in excess of 432 mm must be 60 to 90 g/m² and must be fed by one side by one side*
Original size	A3, A4, A4R, A5, A5R, B4, B5, B5R, B6R, LDR, LGL, LTR, LTRR, STMT, STMTR, 8K, 16K, 16KR Feeding direction 139.7 to 432 mm (STMT to 17 inch) *Originals of 432 to 630 mm can be also read (refer to the remarks) Width direction 128 to 304.8 mm (B6R to 12 inch)	<ul style="list-style-type: none"> • Only cross feed is supported for B6 • Originals of 432 to 630 mm in the feeding direction can be read only if a user holds it because the size is larger than the Document Pickup Tray. *
Document orientation	Original tray pickup: Face up stacking	-
Document set position	Original tray pickup: Center reference	-
Document scanning method	Stream reading	Simultaneous duplex reading is supported only for originals of 432 mm or less
Original separation method	Drive-free retard separation	-
Document feed mode	1-sided, 2-sided (simultaneous duplex reading)	-
Original tray stacking capacity	All sizes: 150 sheets (if one sheet weighs 80 g/m ² or less)	<ul style="list-style-type: none"> • Originals exceeding 80 g/m² are converted by basis weight. Folded originals must be 10 mm or less in height. • A document in excess of 432 mm must be placed one by one
Mixed paper functions	Mixed in the same configuration Yes Mix of different configurations Yes	Originals must be placed to the rear side. Guaranteed mix of different configurations AB configuration: A3/B4, B4/A4R, A4/B5, B5R/A5R
Original size detection function	Yes	-
Finished Stamp function	Yes	-

Item	Specification	Remarks
Document processing speed	Stream reading <ul style="list-style-type: none"> • 1-sided <ul style="list-style-type: none"> • Copy/Send: 600 dpi BW : 80 ipm BW : 60 ipm • SEND : 300 dpi BW : 80 ipm CL : 80 ipm • 2-sided <ul style="list-style-type: none"> • Copy/Send: 600 dpi BW : 150 ipm BW : 80 ipm • SEND : 300 dpi BW : 160 ipm CL : 160 ipm 	-
Power supply	DC24 V, DC12 V	Supplied from the connected equipment

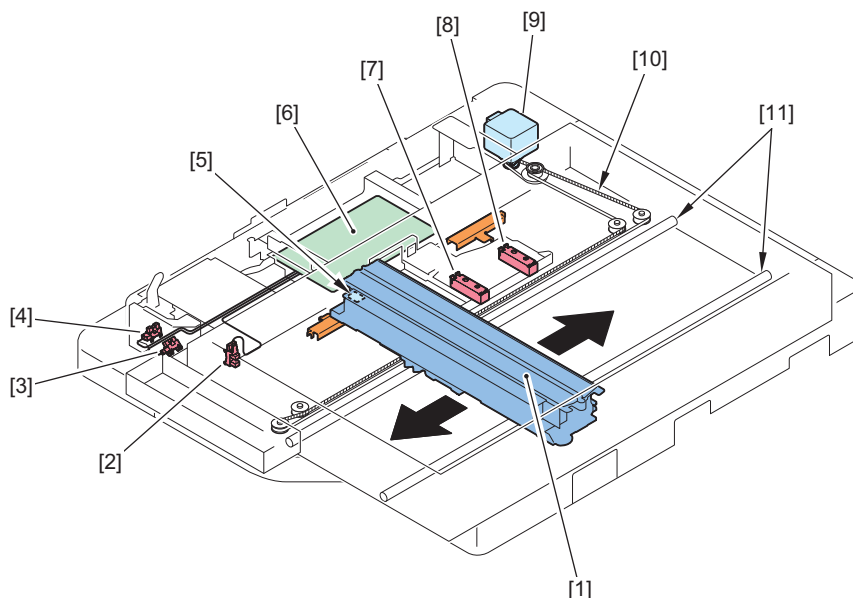
*: For the Long Original mode, select the following service mode (Lv.2) and set to 1 (default value: 0)

- COPIER > OPTION > USER > MF-LG-ST

■ Basic Configuration

● Reader Unit

Parts Configuration

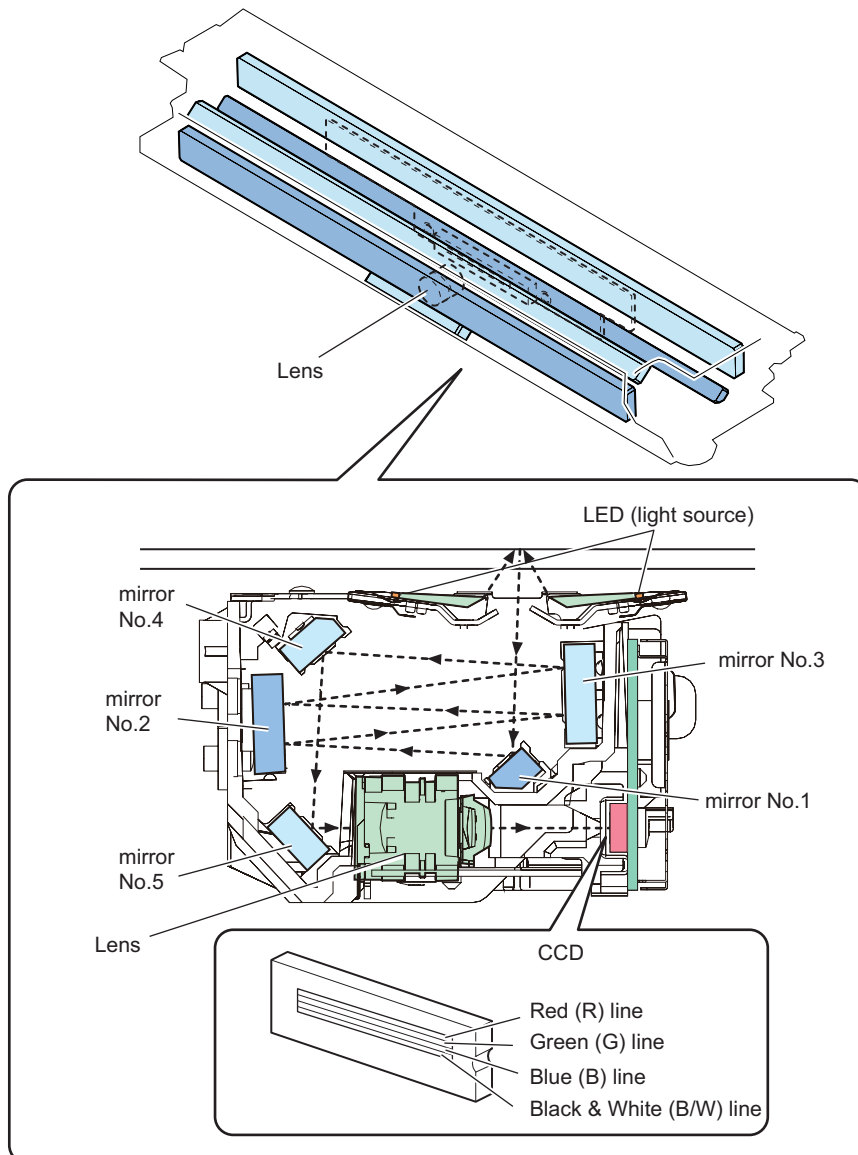


Key No.	Name	Code	Function/Specification
[1]	Scanner Unit	-	Image reading, analog image processing
[2]	Scanner Unit HP Sensor	PS_A1	Scanner Unit HP detection
[3]	ADF Open/Close Sensor 1	PS_N1	ADF open/close detection (DADF detection at 5 degrees)
[4]	ADF Open/Close Sensor 2	PS_N2	ADF open/close detection (detection of timing for size detection at 30 degrees of ADF opening/closing)
[5]	Sensor Lightproof Sheet	-	-
[6]	Reader Controller PCB	UN_BO1	Overall Reader control, digital image processing
[7]	Original Size Sensor 1	PS_R1	Size detection in the vertical scanning direction (AB configuration)
[8]	Original Size Sensor 2	PS_R2	Size detection in the vertical scanning direction (Inch configuration)
[9]	Scanner Motor	STM1	2-phase Pulse Motor: Pulse control
[10]	Carriage Drive Belt	-	-
[11]	Guide Shaft	-	-

Scanner Unit

This equipment uses a Scanner Unit that integrates an LED, mirror, lens, and Reading Sensor to perform original exposure and reading.

Light emitted from the LED is reflected by the original and reaches the Reading Sensor through the Reflection Mirror and the Lens Unit.



LED Lamp Unit

The LED Lamp Unit emits light from the 2 LED Lamp PCBs (with 36 LED chips for each PCB). The emitted light exposes the original via the Reflection Plate.

Newly Developed Lens Unit

By using the Lens Unit with 4 lenses combined, downsizing of the Scanner Unit has been achieved.

Reading Sensor

The Reading Sensor reads the image for 1 image line.

The Reading Sensor has 4 lines (R, G, B, and B/W). At 600 dpi B&W reading, 1 line (B/W) is used. At color reading, 3 lines (R, G, and B) are used.

Related Error Code

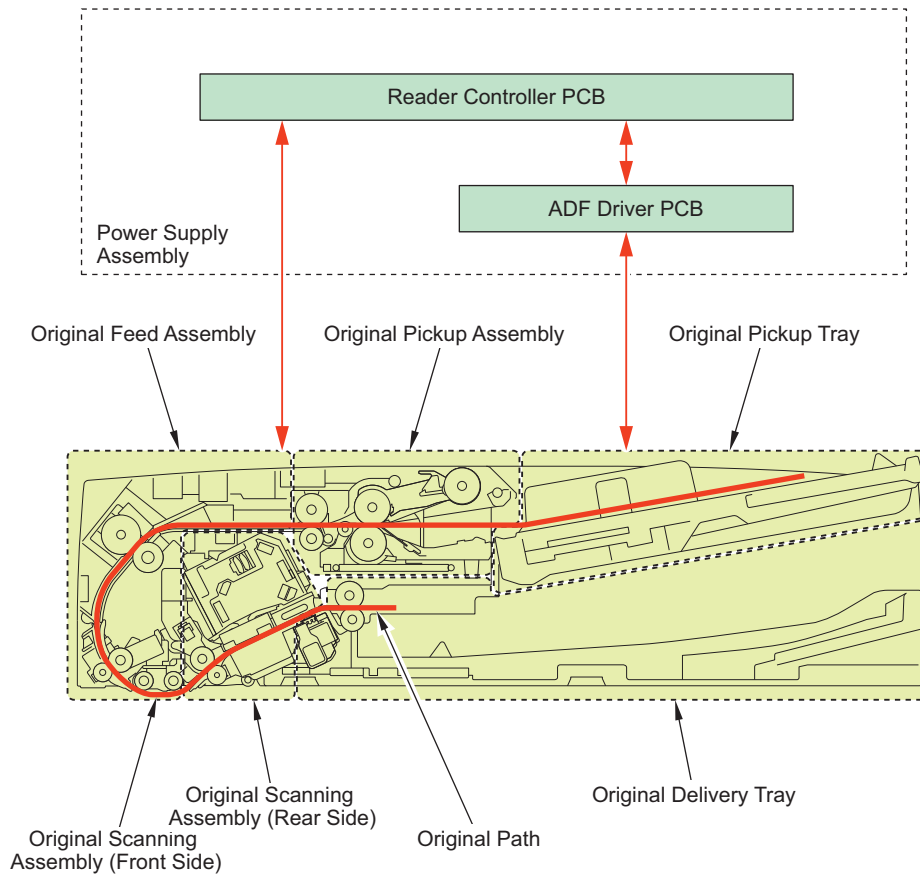
Shading error

- E302-0001: Error in paper front white shading
- E302-0002: Error in paper front black shading

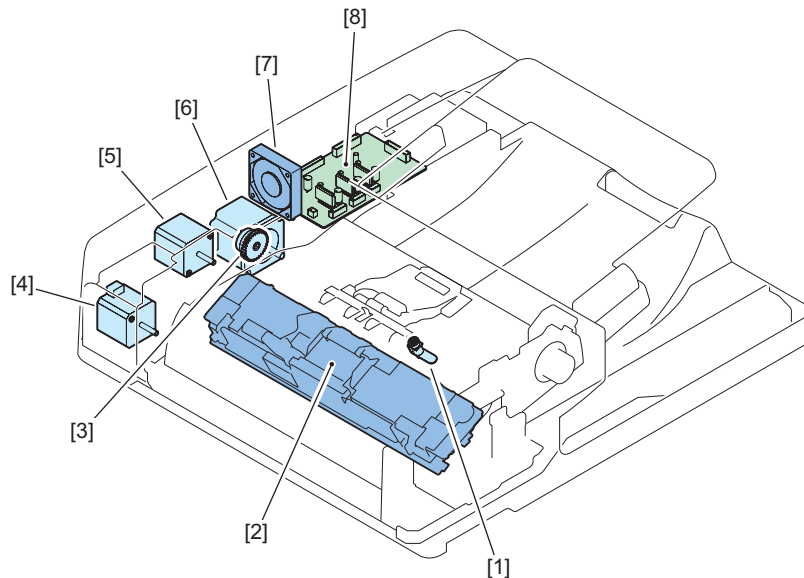
• ADF Unit

Function Configuration

A list of functions is indicated below.



Parts Configuration



Key No.	Name	Code
[1]	ADF Stamp Solenoid	SL1
[2]	Scanner Unit	-
[3]	ADF Pickup Clutch	CL1
[4]	ADF Registration Motor	STM1
[5]	ADF Pickup Motor	STM2
[6]	ADF Read Motor	STM3

Key No.	Name	Code
[7]	ADF Cooling Fan	FAN_A1
[8]	ADF Driver PCB	UN_BO1

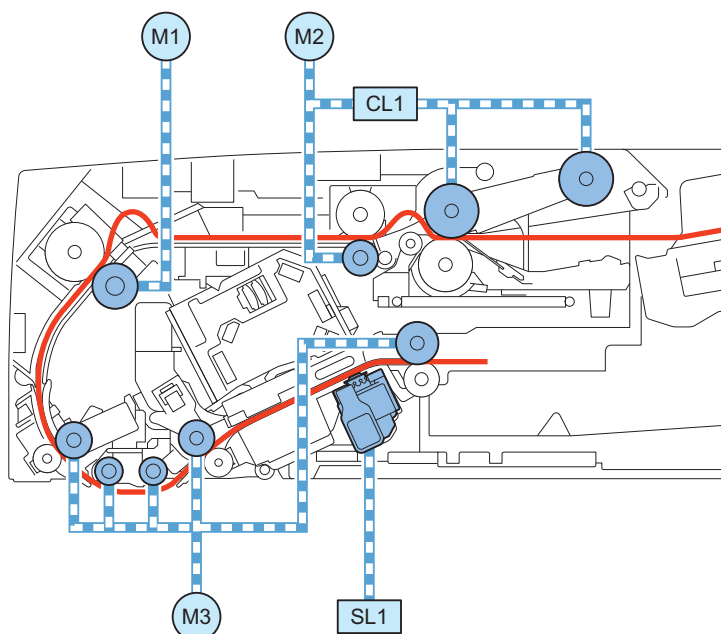
Drive Configuration List

This equipment is a document feeder for stream reading only.

This equipment has 3 motors, 1 clutch, and 1 solenoid as drive load.

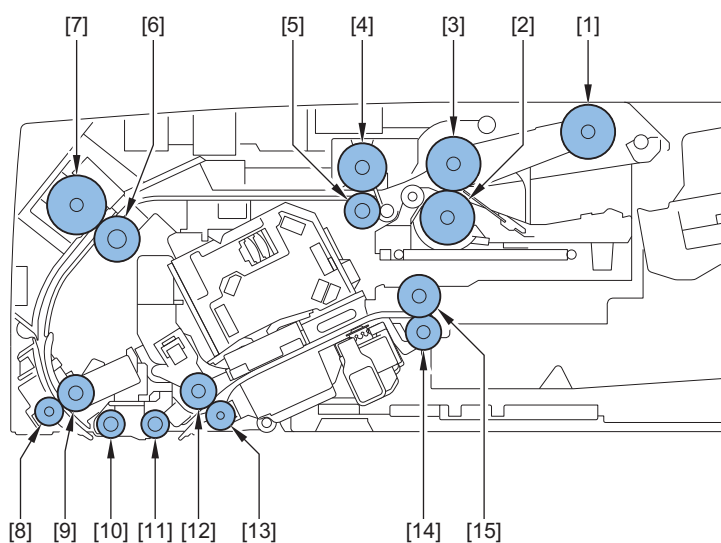
It also has 1 document reading unit (Scanner Unit) for the back side of originals.

The drive configuration of this equipment is indicated below.



Code	Name	Role
STM1	ADF Registration Motor	Drive of Pickup Roller
STM2	ADF Pickup Motor	Drive of Registration Roller, paper feed
STM3	ADF Read Motor	Lead Roller, Delivery Roller drive, Glass shift
CL1	ADF Pickup Clutch	ON/OFF of Pickup Roller Unit lifting operation
SL1	ADF Stamp Solenoid	Stamp drive

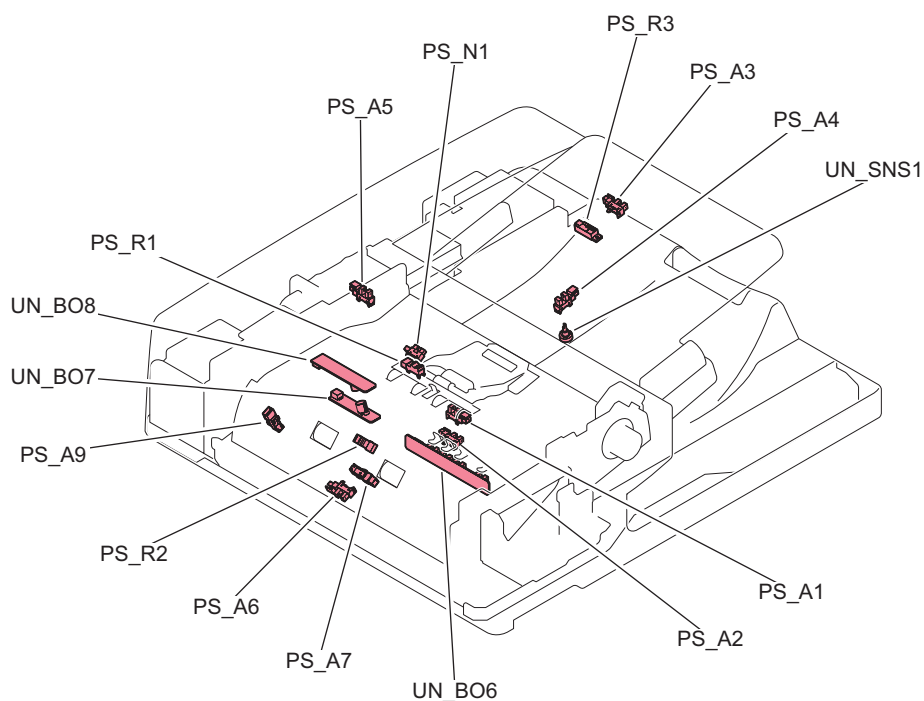
List of Rollers



Key No.	Name
[1]	Pickup Roller

Key No.	Name
[2]	Separation Roller
[3]	Feed Roller
[4]	Pullout Roller
[5]	Pullout Roller
[6]	Registration Roller
[7]	Registration Roller
[8]	Lead Roller 1
[9]	Lead Roller 1
[10]	Platen Roller 1
[11]	Platen Roller 2
[12]	Lead Roller 2
[13]	Lead Roller 2
[14]	Delivery Roller
[15]	Delivery Roller

List of Sensors

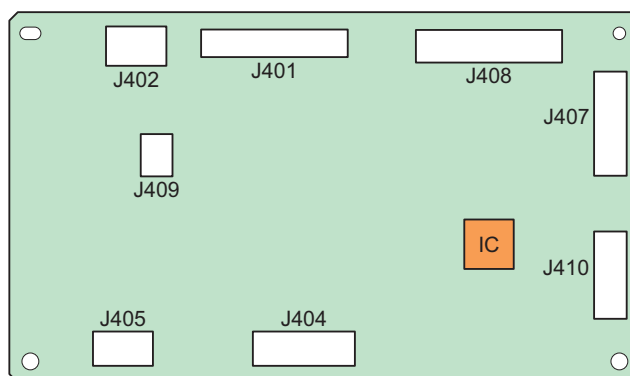


Code	Name	Detection description	Jam Detection		
			Delay	Stationary	Others
PS_A1	Arch Sensor	Pullout Roller arch formation timing	Yes	Yes	-
PS_A2	Delivery Tray Sensor	Existence of originals in the Original Output Tray	-	-	-
PS_A3	LTR-R/ LGL Sensor	Identifying LTR-R/LGL paper	-	-	-
PS_A4	AB/ Inch Sensor	Identifying A4R/LTRR and A5R/STMTR paper	-	-	-
PS_A5	Cover Open/Closed Sensor	Opening/closing of the Feeder Cover	-	-	Yes
PS_A6	Lead Sensor 1	Lead Roller 1 disengagement timing	Yes	Yes	-
PS_A7	Lead Sensor 2	Lead Roller 2 disengagement timing	Yes	Yes	-
PS_A9	Paper Back Reading Glass HP Sensor	Reading Glass position	-	-	-
UN_BO6	Original Size Sensor	Original size in the width direction	-	-	-
UN_BO7	Double Feed Sensor PCB (transmission)	Double feed detection (transmission)	-	-	Yes
UN_BO8	Double Feed Sensor PCB (reception)	Double feed detection (reception)	-	-	Yes
PS_N1	Original Sensor	Existence of originals in the Document Pickup Tray	-	-	-

Code	Name	Detection description	Jam Detection		
			Delay	Stationary	Others
PS_R1	Post-separation Sensor	The position of the leading edge of the original immediately after pickup	Yes	Yes	-
PS_R2	Registration Sensor	Registration arch formation timing	Yes	Yes	-
PS_R3	Large Size/ Small Size Sensor	Identifying large size/small size originals	-	-	-

ADF Driver PCB

The connections of the ADF Driver PCB are indicated below.



ADF Driver PCB J No.	Connection destination	
	Code	Name
J401	UN_BO1	Reader Controller PCB
J402	UN_BO1	Reader Controller PCB
J404	STM1	ADF Registration Motor
	STM2	ADF Pickup Motor
J405	STM3	ADF Read Motor
J407	CL1	ADF Pickup Clutch
	SL1	ADF Stamp Solenoid
	PS_A1	Arch Sensor
	PS_A2	Delivery Tray Sensor
	PS_N1	Original Sensor
	PS_R1	Post-separation Sensor
	UN_BO4	Original Display LED
J409	FAN_A1	ADF Cooling Fan
J408	PS_A5	Cover Open/Closed Sensor
	PS_A6	Lead Sensor 1
	PS_A7	Lead Sensor 2
	PS_A9	Paper Back Reading Glass HP Sensor
	PS_R2	Registration Sensor
	UN_BO6	Original Size Sensor
	UN_BO7	Double Feed Sensor PCB (transmission)
	UN_BO8	Double Feed Sensor PCB (reception)
J410	UN_SNS1	Original Width Volume
	PS_A3	LTR-R/ LGL Sensor
	PS_A4	AB/ Inch Sensor
	PS_R3	Large Size/ Small Size Sensor
	UN_BO5	Delivery Display LED

Magnification Ratio

■ Changing the Magnification Ratio in the Horizontal Scanning Direction

When using the reading mode of the reader / When using the ADF

Reading in the horizontal scanning direction is performed at 100% size. Changes to the magnification ratio are processed by the Main Controller PCB.

■ Changing the Magnification Ratio in the Vertical Scanning Direction

As the magnification change in vertical scanning direction, the following operation is performed according to original reading method and difference in magnification.

1. Magnification change operation when using the reading mode of the reader
Data is processed by the Main Controller PCB according to the magnification ratio.
Example) In the case of reducing the magnification to 25%: Original reading speed of 260 mm/sec, original reduced to 25% (1/4 size) by the Main Controller PCB
Example) In the case of 100%: Original reading speed of 260 mm/sec

Operation description	Magnification		
	25 % to 50 %	50.1 % to 199.9 %	200 % to 400 %
Original reading speed (mm/sec)	260	260	260
Digital magnification processing in the Main Controller PCB (%)	25 to 50	50.1 to 199.9	100 to 200

Original Size Detection

■ Overview

This machine determines the size of an original by the combination of the measurement results of the reflected light at particular points of the Reflection Sensor and Reading Sensor. Furthermore, two points are measured for each size to perform accurate detection even if the original is moved when the ADF is closed.

- Horizontal scanning direction: Reading Sensor (AB configuration: 12 point measurement, inch configuration: 6 point measurement)
- Vertical scanning direction: Reflection Photosensor (AB configuration, inch configuration: 1 location, AB/inch configuration: 1 location (shipped with position of Original Sensor 1, but can be changed the position of Original Sensor 2 as necessary))

The original size is determined using the following procedure:

1. Search of external light (horizontal scanning direction only)

The sensor level at each detection position in the horizontal scanning direction is measured while the LED is OFF.

2. Detection of output level of each sensor

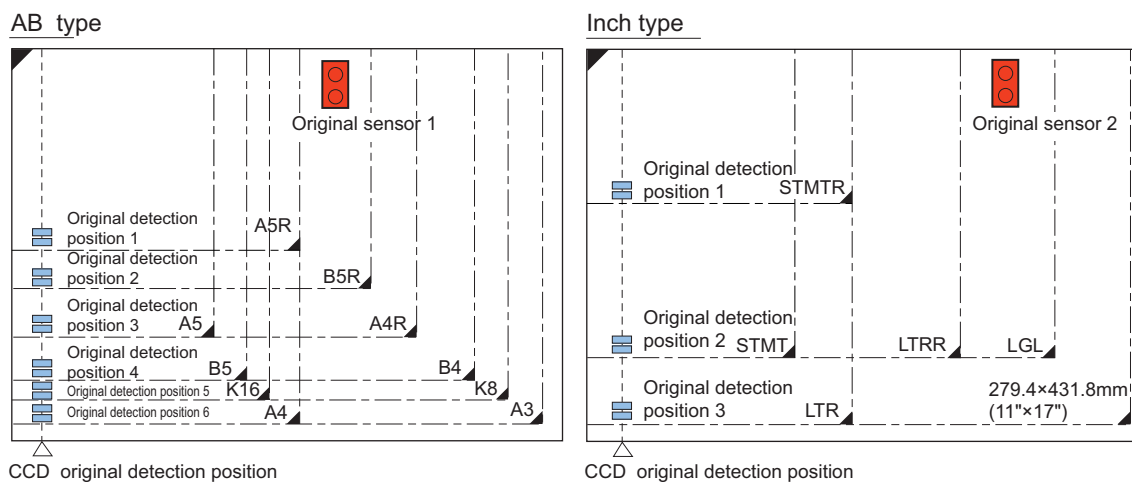
The LED of the Reading Sensor Unit is turned ON to measure the sensor level at each detection position in the horizontal scanning direction.

Furthermore, the Reflection Photo Sensor LED for the vertical scanning direction is turned ON to measure the sensor output.

The original size is determined by the combination of these outputs.

■ Control description

In horizontal scanning direction, sensor level of each original detection position is measured by moving the Scanner Unit to the detection position shown in the figure in relation to the original setting position. In the vertical scanning direction, the original size is determined using the Original Sensor 1 and 2.



Dust Detection Control

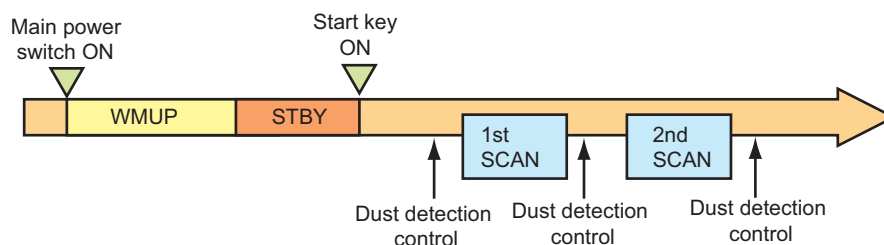
Single pass ADF

Overview

When reading an original, original reading position is changed according to the presence/absence of dust on the Stream Reading Glass or the Guide Plate of the ADF or image correction is performed to prevent the dust to be printed on an image. This control is performed only when the ADF is being used and has been closed.

Control timing

- At job completion
- At paper interval (after each sheet is read)
- At the start of a job (only when one of the following conditions is met)
 - When dust is detected at all detection points when the previous job finished
 - When dust detection was not completed normally when the previous job finished (because the ADF was opened, etc.)



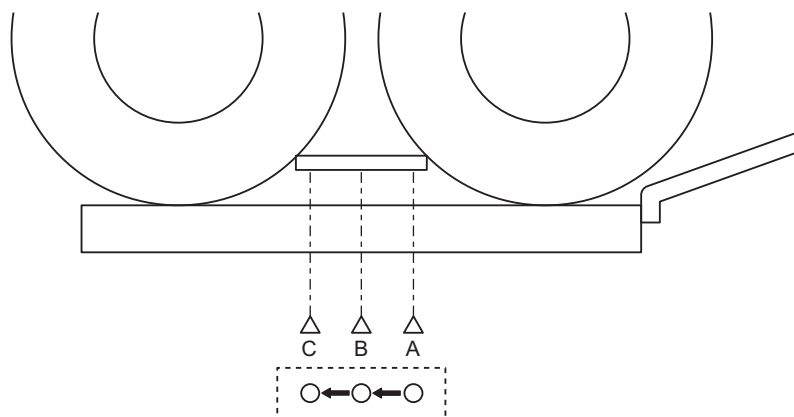
Control description

At job completion (dust detection)

The Reading Sensor detects presence/absence of dust at the reading position A, B, and C in that order, and the position where dust is least present becomes the reading position for the next job.

At the start of a job (dust evasion)

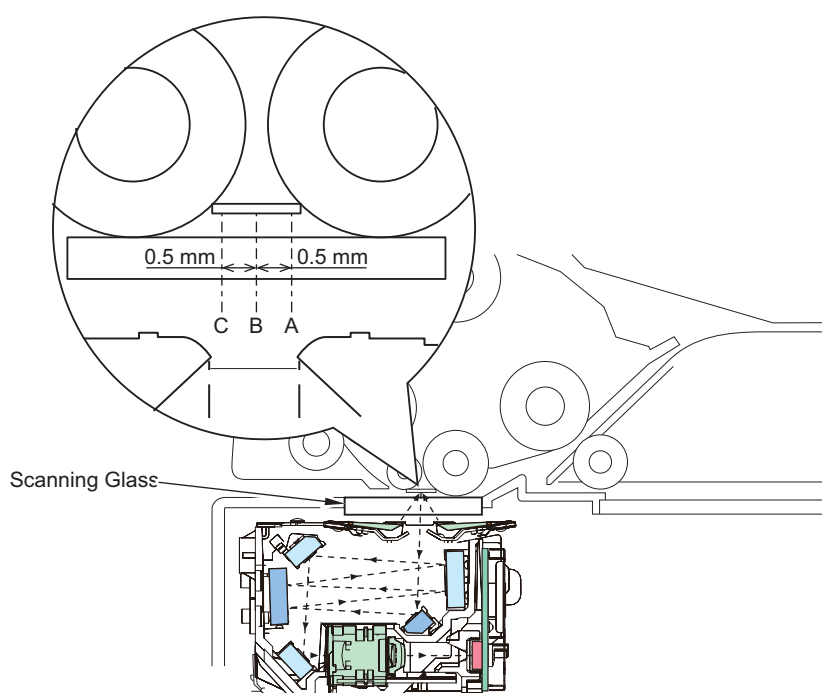
Like the time of completion of a job, presence/absence of dust is detected at all positions (A, B, and C in that order). The position where dust is least present is used as the reading position and reading starts.



At paper interval

The Scanner Unit does not move.

Reading is performed at the position determined by the control performed at job completion or at the start of a job, and image correction is performed if dust is detected at that position.



Service mode

- Adjustment of dust detection level at paper interval
COPIER > OPTION > IMG-RDR > DFDST-L1
- Adjustment of dust detection level at job completion
COPIER > OPTION > IMG-RDR > DFDST-L2

Image Processing

The functions of the PCB related to image processing are shown below:

Reader Controller PCB

- Shading correction (executed per job)
- Color displacement correction in vertical scanning direction

Scanner Unit PCB

- Scanner Unit drive, analog image processing, A/D conversion

Image processing is performed by the Reader Controller PCB for each line of the images. The main functions are indicated below.

Reader Controller PCB

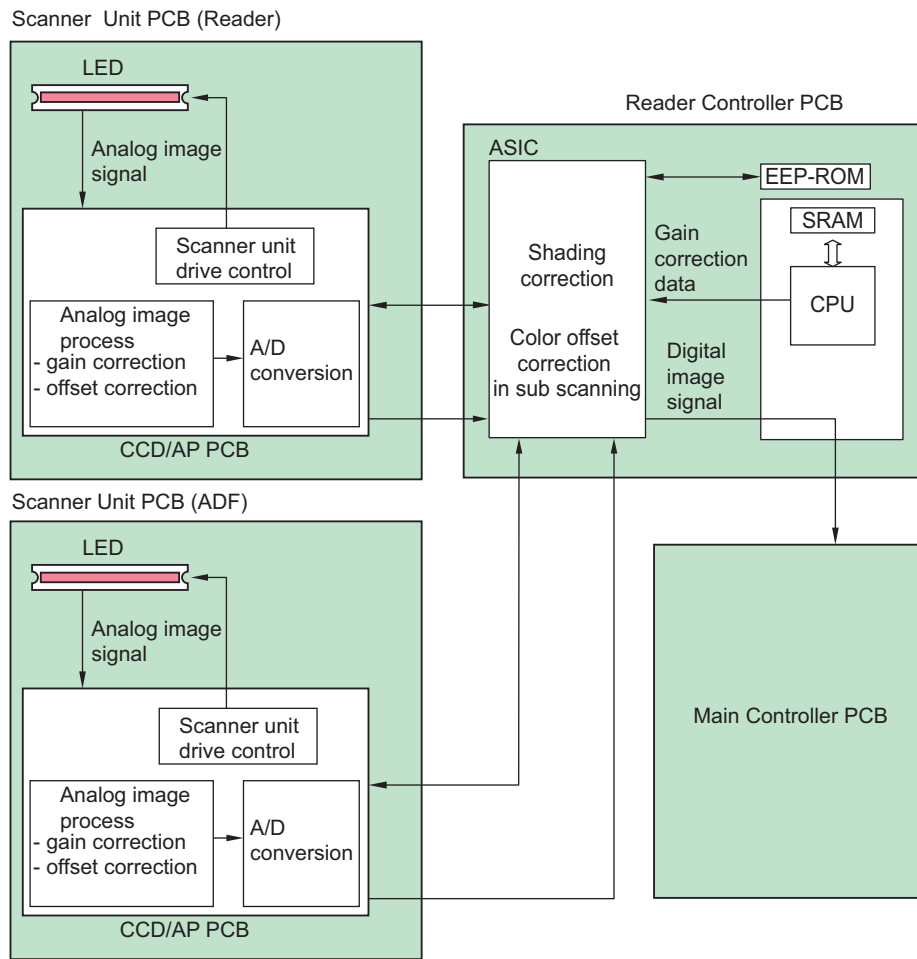
- Shading correction

Color displacement correction in vertical scanning direction

Scanner Unit PCB (in the Scanner Unit)

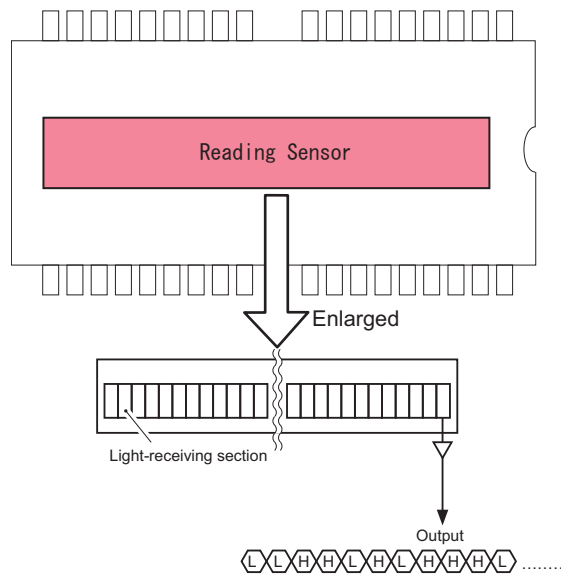
Scanner Unit Drive

Gain correction of the Reading Sensor output, Offset correction



Scanner Unit Drive

The Reading Sensor included in this equipment is comprised of approx. 7,500 pixels. The signal photoelectrically converted by the light-receiving part is output to the Analog Front-end Circuit on the Scanner Unit PCB.



■ Gain correction of the Reading Sensor output, Offset correction

The analog video signal output from the Reading Sensor has its amplification ratio aligned with a fixed value (gain correction) and has its output voltage when there is no incident light aligned with a fixed value (offset correction).

■ A/D Conversion for Reading Sensor Output

The corrected analog video signal is converted into the digital signal for each pixel voltage value using an A/D converter.

■ Overview of Shading Correction

Even density of an original is even, output of the Reading Sensor may not become even due to the following reasons.

- Variation in sensitivity of pixels of the Reading Sensor
- Variation in lens light intensity
- Difference in the transmission light intensity in the center of the lens and the surrounding area
- Difference in the light intensity in the center of the LED and the surrounding area
- LED deterioration

To correct unevenness of the Reading Sensor output, shading correction is performed.

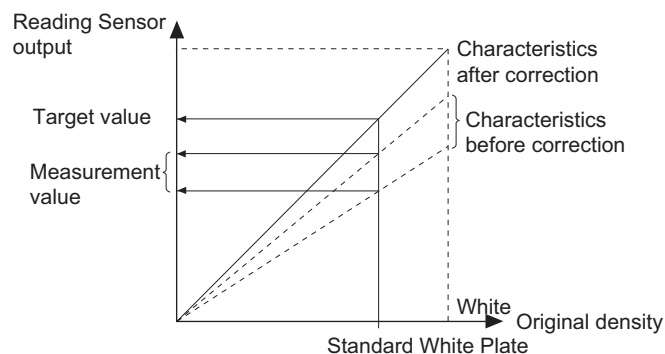
In shading correction, there is a type of shading correction that is executed per job.

■ Shading correction

Shading correction is performed for each scanning of original.

With this operation, light of LED Lamp is emitted to the Standard White Plate, and the reflected light is converted into digital data at the analog image processing part of the Scanner Unit PCB. The amount of digitized reflected light is input to the shading correction circuit in the Main Controller PCB as the shading coefficient. In the shading correction circuit, the stored target value and the shading coefficient are compared, and the difference is determined as the shading correction value.

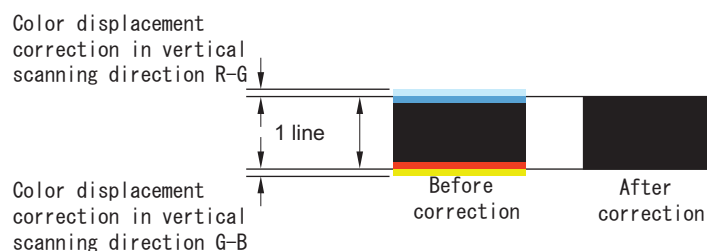
With this shading correction value, variation of pixel of the Reading Sensor of each scan is corrected to make the image density level even.



● Color displacement correction processing in vertical scanning direction

Color displacement correction control in vertical scanning direction is a processing to correct the displacement in RGB by shifting pixels in the vertical direction (up to 1 pixel) to align GREEN with RED and BLUE images when RGB cannot be read such that they are accurately overlapped at color scanning.

Example) Scanned image of black line when RED is shifted upwards and BLUE is shifted downwards compared to GREEN



There are 2 color displacement correction values in the vertical scanning direction, as indicated below. The correction values are already adjusted at the time of shipping and stored as service modes. (In COPIER > ADJUST > CCD)

- COPIER > ADJUST > CCD > 100-RG

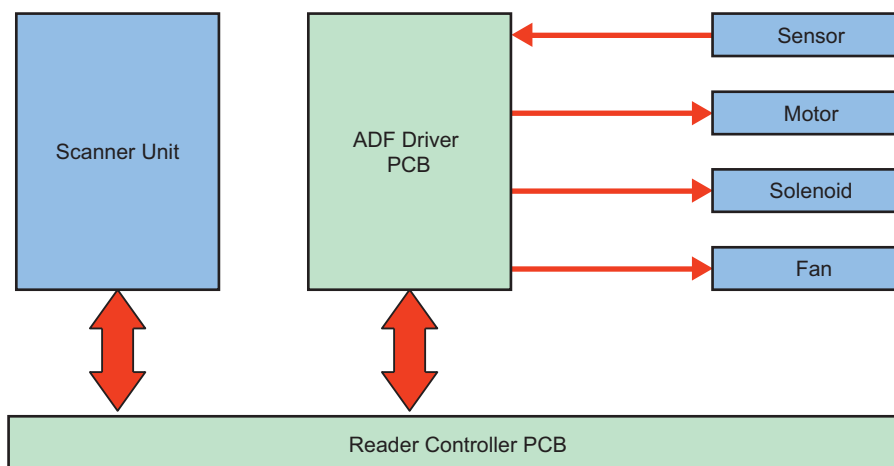
- COPIER > ADJUST > CCD > 100-BG

When a job is started, color displacement correction processing is performed based on the saved color displacement correction values.

Outline of Electric Circuits

This equipment is controlled by the Reader Controller PCB.

The relationship between the various electrical components is indicated below.



Related Error Code

Communication error between the Reader Controller PCB and the Scanner Unit

- E280 - 0001: Communication between the Reader Controller PCB and the Reader Scanner Unit was not completed within the specified period of time.
- E280 - 0002: Disconnection of FFC between the Reader Controller PCB and the Reader Scanner Unit was detected.
- E280 - 0101: Communication between the Reader Controller PCB and the DADF Scanner Unit was not completed within the specified period of time.
- E280 - 0102: Disconnection of FFC between the Reader Controller PCB and the DADF Scanner Unit was detected.

Communication error between the Reader Controller PCB and the DADF

- E400 - 0001: A communication error between the Reader Controller PCB and the DADF Driver PCB was detected.
- E400 - 0002: A communication error between the Reader Controller PCB and the DADF Driver PCB was detected.
- E400 - 0003: Disconnection of the harness between the Reader Controller PCB and the DADF Driver PCB was detected.

ADF fan error

- E412 - 0005: Rotation of fan was detected after the stop signal for the DADF Cooling Fan was transmitted.
- E412 - 0006: Stop of fan was detected after rotation signal for the DADF Cooling Fan was transmitted.

Different DADF model error

- E490 - 0001: A wrong Scanner Unit was installed.
- E490 - 0101: A wrong DADF was installed.

Overview

The operation modes of this machine are categorized as indicated below.

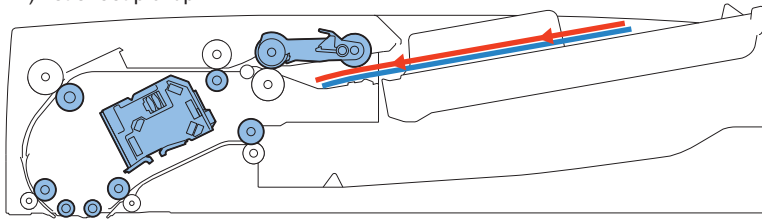
Name of operation mode	Duplex reading method	Operation overview	Supported print mode
Normal rotation pickup/delivery	-	Picks up originals and reads them with the Scanner Unit on the Reader side. Then outputs them.	1-sided original -> 1-sided printing
			1-sided original-> 2-sided printing
			1-sided original mix of the same configuration -> 1-sided printing
			1-sided original mix of the same configuration -> 2-sided printing
			1-sided original mix of different configurations -> 1-sided printing
			1-sided original mix of different configurations -> 2-sided printing
			Long original -> 1-sided printing

Name of operation mode	Duplex reading method	Operation overview	Supported print mode
Normal rotation pickup/delivery	Simultaneous duplex reading	Picks up originals, reads their front side with the Scanner Unit at the Reader side, and reads their back side with the Scanner Unit on the ADF side. Then outputs them.	2-sided original -> 1-sided printing
			2-sided original -> 2-sided printing
			2-sided original mix of the same configuration -> 1-sided printing
			2-sided original mix of the same configuration -> 2-sided printing
			2-sided original mix of different configurations -> 1-sided printing
			2-sided original mix of different configurations -> 2-sided printing

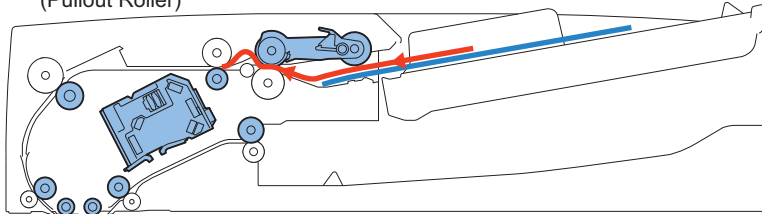
An overview of the flow of the original is indicated below.

■ 1-Sided Original (Small Size)

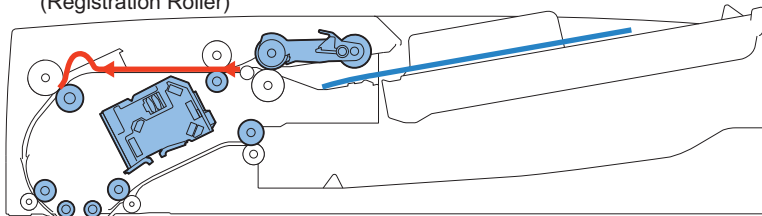
1) 1st sheet pickup



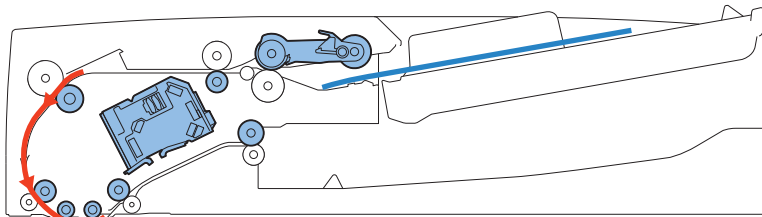
2) 1st sheet arch creation 1 (Pullout Roller)



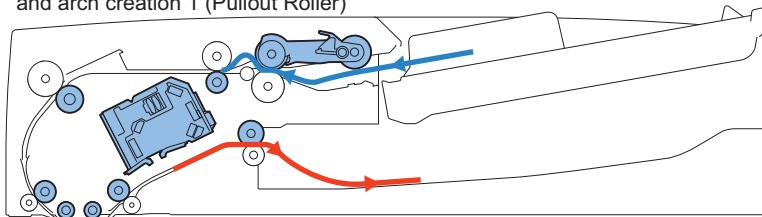
3) 1st sheet arch creation 1 (Registration Roller)



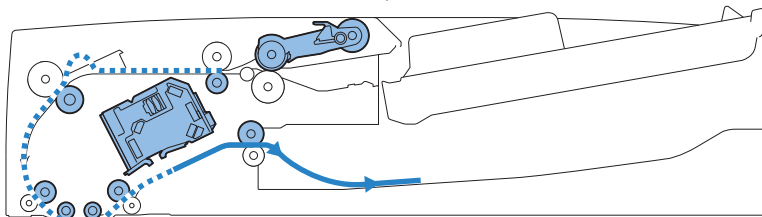
4) 1st sheet scanning



5) 1st sheet delivery & 2nd sheet pickup and arch creation 1 (Pullout Roller)



6) 2nd sheet scanning



Scanner Unit

■ Configuration of the Scanner Unit

The Scanner Unit has the same mechanism as that of the reader. For details, refer to "Scanner Unit" in "Basic Configuration" in the section "Reader Technology".

Note that there is a difference in their externals due to the shapes of the locations where the units are installed. For this reason, the unit for the ADF and that for the reader cannot be exchanged.

Related Error Code

Light intensity error

- E301-0002: Light intensity is below the reference level at paper back shading.

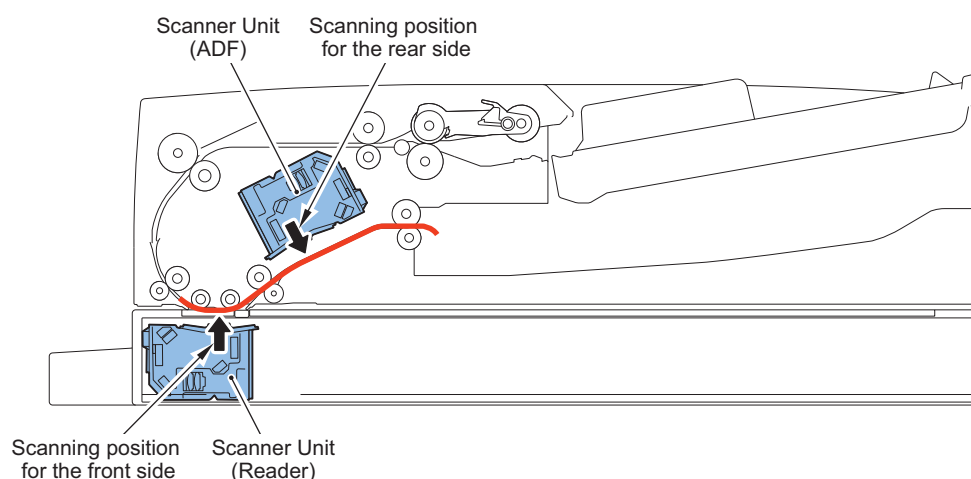
Shading error

- E302-0101: Error in paper back white shading
- E302-0102: Error in paper back black shading

■ Duplex Reading Control

2-sided originals are read using simultaneous duplex reading.

With one feed, the Scanner Unit of the Reader Unit reads the front side and the Scanner Unit of the ADF reads the back side without reversing the paper.



Service mode

- Zoom fine adjustment when reading 2-sided originals (horizontal scanning direction) [front side]
FEEDER > ADJUST > ADJMCSN1
- Zoom fine adjustment when reading 2-sided originals (horizontal scanning direction) [back side]
FEEDER > ADJUST > ADJMCSN2

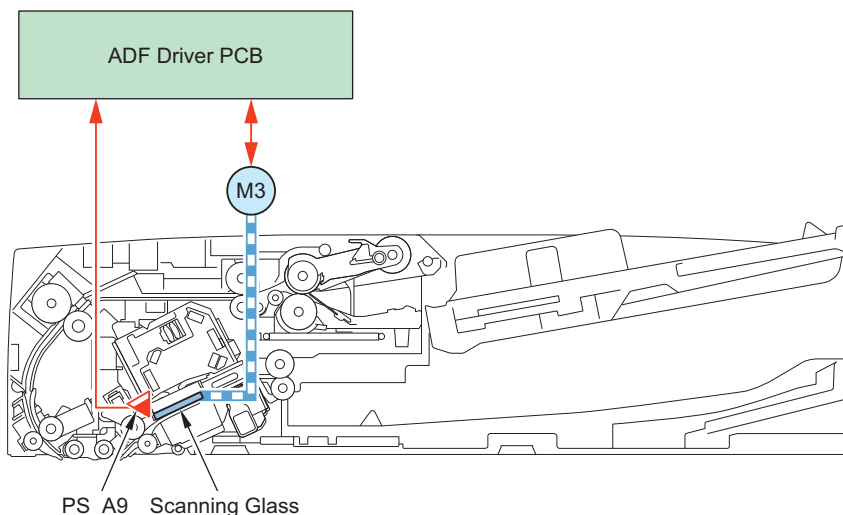
■ Glass shift control

This equipment has a Reading Glass on the bottom surface of the Scanner Unit.

This Reading Glass has a Standard White Plate used for shading correction and dust detection correction.

The Reader Controller drives the Read Motor (STM3) as needed to move the Reading Glass.

The Reader Controller performs the above-mentioned correction by comparing the position of the Standard White Plate and the reflection data of the image scanning position.



The shift timing for the Reading Glass is indicated below.

Condition	Reading Glass shift operation
Wait	Yes
Standby	No
At recovery from sleep mode	Yes
At 1-sided reading	Yes
At 2-sided reading	Yes
At last rotation	No

Related Error Code

Scanner HP error

- E202-0101: An error occurs during the Glass HP detection operation (outward)
- E202-0102: An error occurs during the Glass HP detection operation (homeward)

Pickup Feed System

A list of original size detections is indicated below.

Timing	Direction	Sensor	Mode			
			Normal	Mix of the same configuration	Mix of different configurations	Long original
Feeding starts.	Feed	LTR-R/ LGL Sensor (PS_A3)	Yes	-	-	-
		Large Size/ Small Size Sensor (PS_R3)	Yes	-	-	-
	Width	AB/ Inch Sensor (PS_A4)	Yes	Yes	Yes	Yes
		Original Width Volume (UN_SNS1)	Yes	Yes	Yes	Yes
During feed	Feed	Post-separation Sensor (PS_R1)	Yes	Yes	Yes	Yes
		Lead Sensor 1 (PS_A6)	Yes	Yes	Yes	Yes
	Width	Original Size Sensor (UN_BO6)	-	-	Yes	-

NOTE:

Normal/mix of same configuration/mix of different configurations: The measurement value is replaced with a fixed size.

Long Original mode (non-fixed detection): The measurement value is used as the original size without changing it.

■ Detection when Starting Pickup

● Detection in the Feed Direction

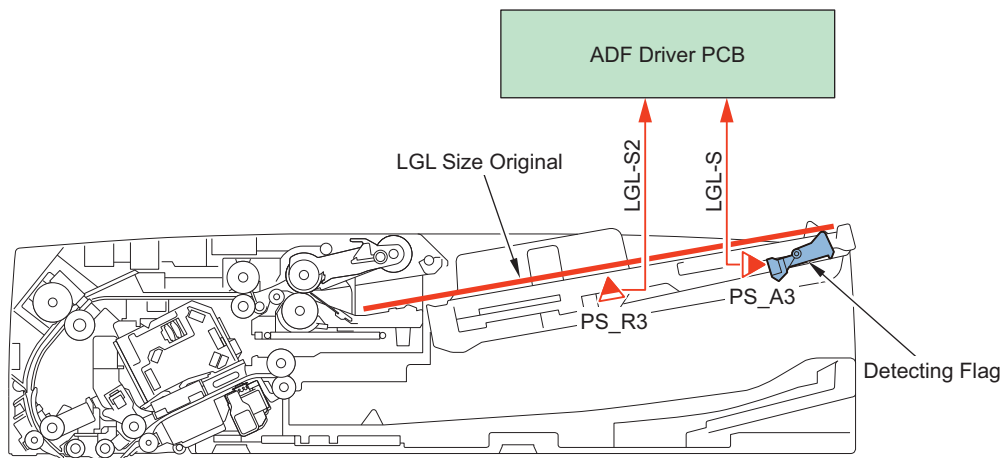
The LTR-R/ LGL Sensor (PS_A3) and Large Size/ Small Size Sensor (PS_R3) determine the paper size (large size or small size).

When an original is placed in the Document Pickup Tray, the detection lever of the LTR-R/ LGL Sensor (PS_A3) operates with the Lightproof Plate and the Lightproof Plate blocks the Photo Interrupter.

At the same time, the reflective Large Size/ Small Size Sensor (PS_R3) detects whether the original has reflecting light.

The size of a paper in the Document Pickup Tray is estimated based on the signal (LGL_S) of the LTR-R/ LGL Sensor (PS_A3), the signal (LGL_S2) of the Large Size/ Small Size Sensor (PS_R3), and the original width.

The original size is detected in real-time when turning ON the start key and sent to the connected equipment.

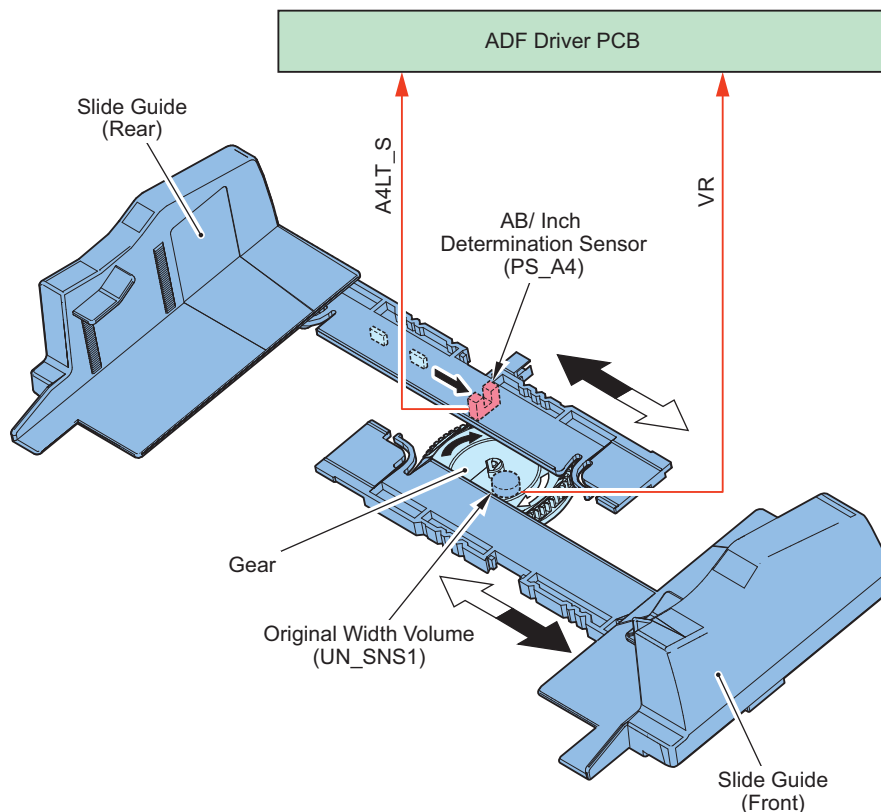


• Detection in the Width Direction

The original size in the width direction is detected using the Original Width Volume (UN_SNS1) and AB/ Inch Sensor (PS_A4) in the Document Pickup Tray.

The analog resistance value of the Original Width Volume (UN_SNS1) changes according to the Slide Guide. The ADF Driver PCB receives this change in the resistance value as an original size signal (UN_SNS1), and uses it as the size in the width direction.

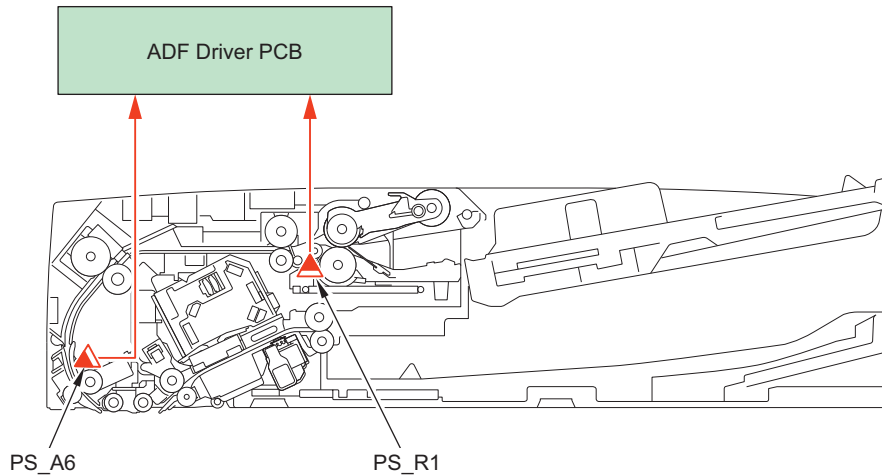
The AB/ Inch Sensor (PS_A4) is located inside the Document Pickup Tray to enable accurate width detection of A4R/LTRR and A5R/STMTR using the Original Width Volume (UN_SNS1). The AB/ Inch Sensor (PS_A4) outputs "1" for the AB/inch detection signal (A4LT_S) when the original width is "127 mm or more and less than 148 mm" or "197 mm or more and less than 214 mm".



■ Detection when Feeding

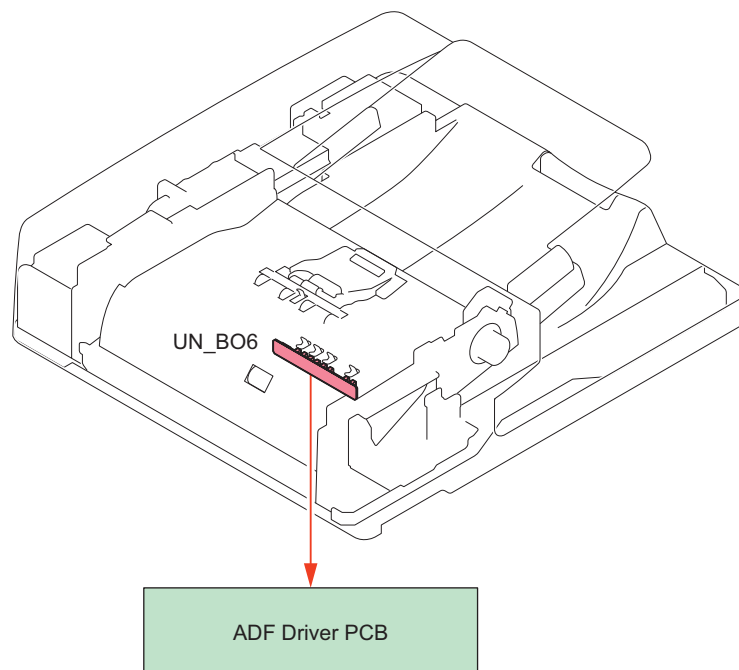
● Detection in the Feed Direction

The original size in the feed direction is calculated using the detection signals of the Post-separation Sensor (PS_R1) and Lead Sensor (PS_A6).



● Detection in the Width Direction(Only when loading the different width mixed paper)

The size is determined by the Original Size Sensor (UN_BO6).

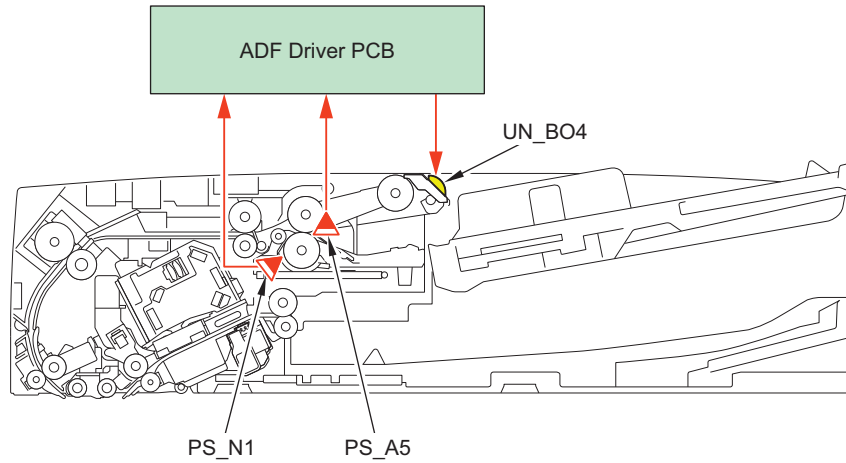


■ Original Detection Control

Detection of originals in the Document Pickup Tray is performed by the Original Sensor (PS_N1).

When an original is placed in the Document Pickup Tray, the Detection Lever operates with the Lightproof Plate and the Lightproof Plate passes through the Photo Interrupter. This makes the Original Sensor (PS_N1) emit an original detection signal (EMP_S). If the Cover Open/Closed Sensor (PS_A5) detects that the Feeder Cover has been closed, a Feeder Cover open/close detection signal (COVER_S) is emitted.

When the ADF Driver PCB receives a Feeder Cover open/close detection signal (COVER_S) and original detection signal (EMP_S), an original set indication signal (EMP_LED) is sent to light the Original Set Display LED (LED).

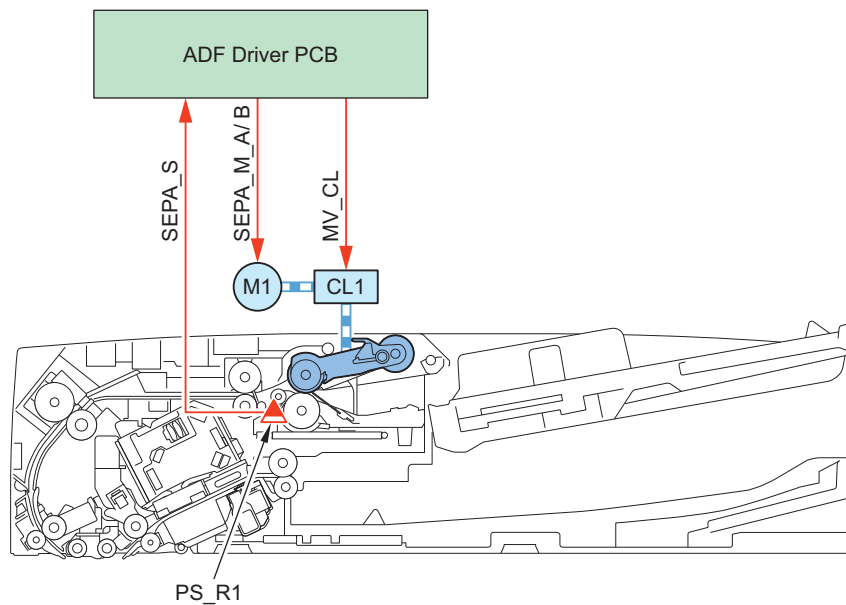


■ Pickup Operation

The pickup operation is performed by the Pickup Roller, Separation Roller, and Feed Roller.

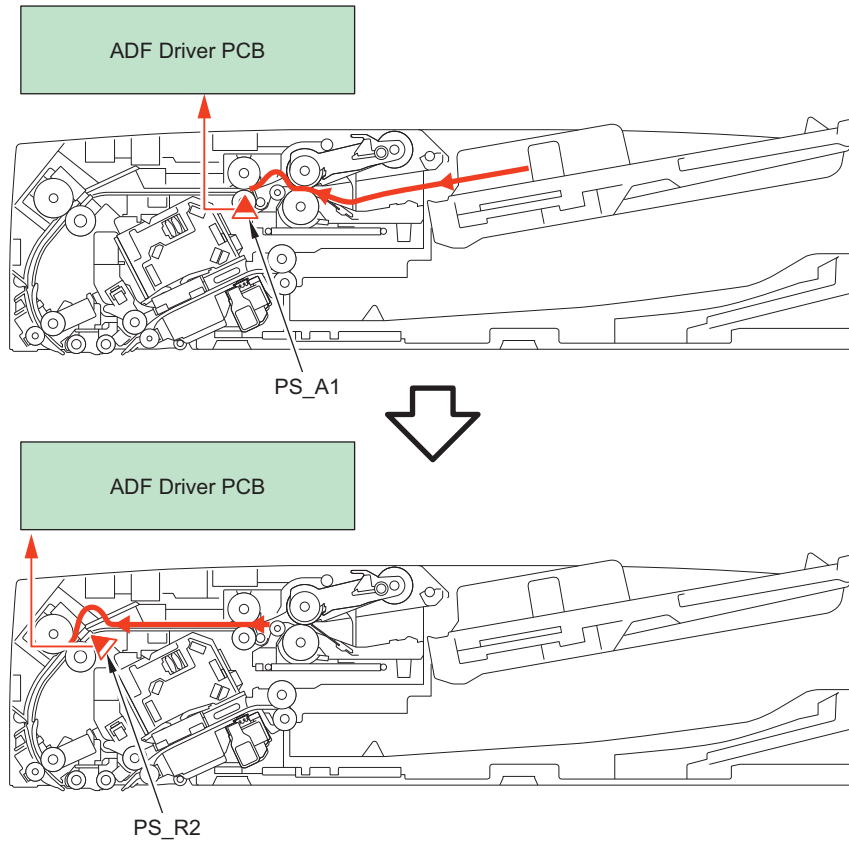
The Pickup Roller and Feed Roller are driven by the Pickup Motor (M1). By turning ON the Pickup Clutch (CL1) after completion of the pickup operation, the Pickup Roller Unit is lifted up.

Errors in the pickup operation are detected by the Post-separation Sensor (PS_R1). If the original could not be detected at the specified timing, it is notified as a jam.



■ Original Feed Control

This equipment forms an arch in the Pullout Roller and Registration Roller locations. This increases the feed accuracy.

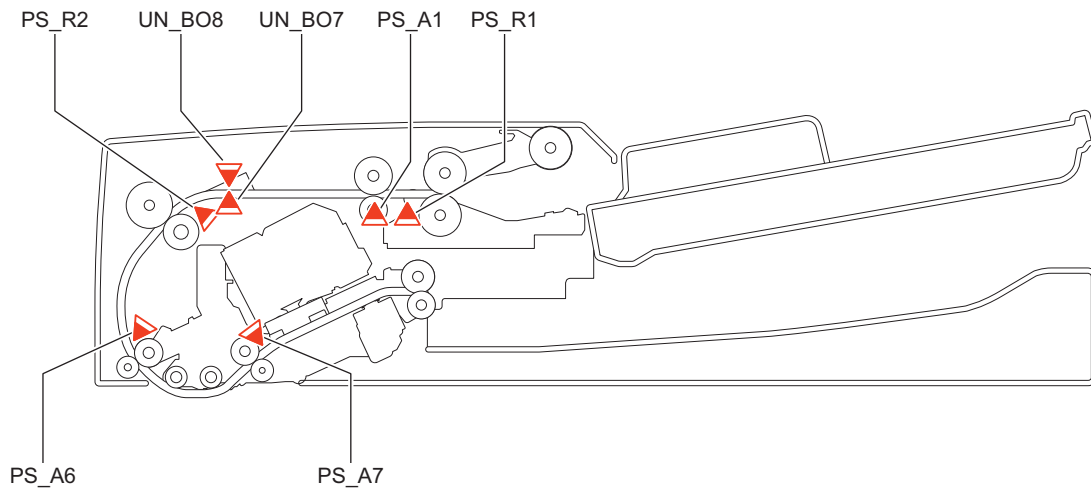


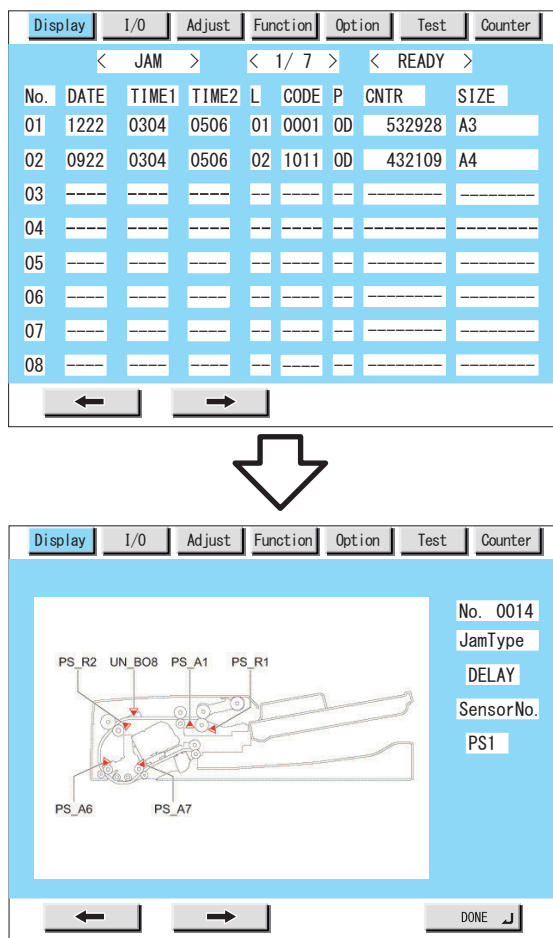
■ Jam Detection

This equipment detects original jams using the sensors indicated in the diagram. The check timing to detect jam is already stored in the ROM of the Reader Controller PCB, which determines the occurrence of a jam by the presence of an original in the areas of corresponding sensors.

When a jam occurs, the machine stores the information by the code.

This machine's jam code can be checked by printing out a jam error history report from service mode.

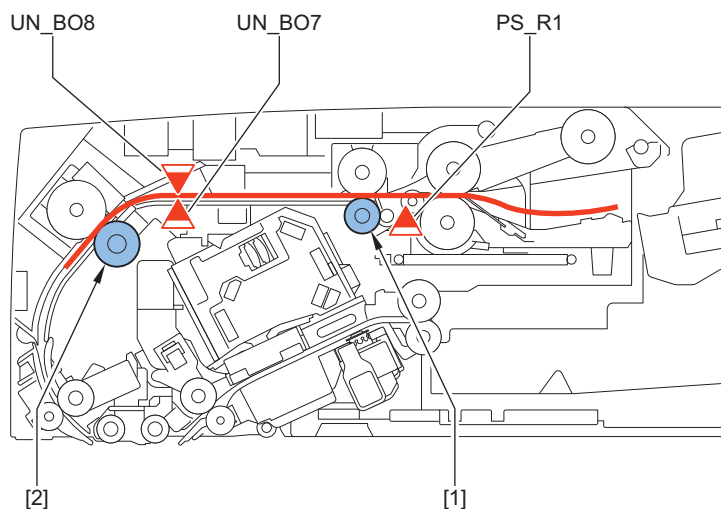




■ Double Feed Detection Control

This equipment has Double Feed Sensor PCBs (Transmission/Reception) (UN_BO7/UN_BO8) to detect double feeding of paper. The Double Feed Sensor PCBs (Transmission/Reception) (UN_BO7/UN_BO8) located between the Pullout Roller and the Registration Roller use an ultrasonic method to perform double feed detection. Once it is judged that a double feed has occurred, the machine stops operation due to a jam.

When a job is started, the sensor level is checked without an original to calculate the threshold value for double feed detection. During the job, the Post-separation Sensor (PS_R1) detects and manages the leading edge/trailing edge for each original sheet and determines whether a double feed has occurred by comparing the values with the threshold value from when the job started.

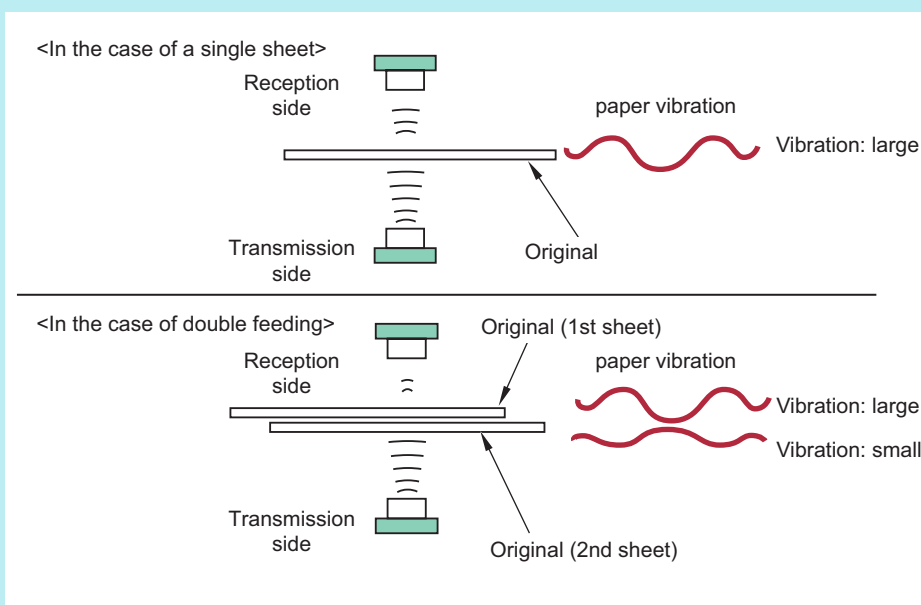


No.	Name
[1]	Pullout Roller
[2]	Registration Roller
PS_R1	Post-separation Sensor

No.	Name
UN_BO7	Double Feed Sensor PCB (transmission)
UN_BO8	Double Feed Sensor PCB (reception)

NOTE:

The Double Feed Sensor PCB uses an ultrasonic sensor. With the ultrasonic method, the oscillation portion emits ultrasonic wave to the paper surface. In the result, new ultrasonic wave is generated as the paper vibrates, and the reception side reads the ultrasonic wave. A double feed is detected when the oscillation is smaller due to a second sheet of paper.



■ Double Feed Detection Jam

Location	Jam code	Types of jam	Sensor name	Sensor number
01	0020	Double feed jam (during a job)	ADF Double Feed Sensor	UN_BO7, UN_BO8
	0021	Sensor communication error (during a job)		
	0060	Double feed jam (during a job, first sheet)		
	0061	Sensor communication error (during a job, first sheet)		
	0062	Sensor adjustment reception level error (at the start of a job)		
	0063	Sensor adjustment communication error (at the start of a job)		

■ Types of jam

● Feed System

Location	Jam code	Sensor name	Sensor number	Jam type		
				Delay	Stationary	Residual
01	0001	ADF Post-separation Sensor	PS_R1	Yes	-	-
	0002			-	Yes	-
	0042			-	Yes	-
	0003	ADF Arch Sensor	PS_A1	Yes	-	-
	0043			Yes	-	-
	0004			-	Yes	-
	0044			-	Yes	-
	0005	ADF Registration Sensor	PS_R2	Yes	-	-
0045	Yes			-	-	

Location	Jam code	Sensor name	Sensor number	Jam type		
				Delay	Stationary	Residual
01	0006	ADF Registration Sensor	PS_R2	-	Yes	-
	0046			-	Yes	-
	0007	ADF Lead Sensor 1	PS_A6	Yes	-	-
	0047			Yes	-	-
	0008			-	Yes	-
	0048			-	Yes	-
	0009	ADF Lead Sensor 2	PS_A7	Yes	-	-
	0049			Yes	-	-
	0010			-	Yes	-
	0050			-	Yes	-
	0094	Entire Feed System Sensor	-	-	-	Yes

• Others

Location	Jam code	Jam type	Sensor name	Sensor number
01	0090	DADF open	DADF Open/Close Sensor 1/2	Reader: PS_N1, PS_N2
	0091	DADF opened by user		
	0092	Cover open	Cover Open/Closed Sensor	PS_A5
	0093	Cover opened by user		
	0095	Pickup error	Post-separation Sensor	PS_R1
	0071	Software timing error*1	-	-
	0073	Error avoidance jam*2	-	-
	0076	Size Error	Large/Small Sensor, LTR-R/LGL Sensor	PS_R3, PS_A3
	0096	Limited functions jam*3	-	-
	00A1	Post-separation Sensor Power ON Jam	Post-separation Sensor	PS_R1
	00A2	Scanner Unit HP Sensor Power ON Jam	Scanner Unit HP Sensor	PS_A1
	00A3	Original Size Sensor (Inch) Power ON Jam	Registration Sensor	PS_R2
	00A4	Lead Sensor 1 Power ON Jam	Lead Sensor 1	PS_A6
	00A5	Lead Sensor 2 Power ON Jam	Lead Sensor 2	PS_A7

*1 It occurs when a software sequence error has occurred for some reasons. The machine is recovered by opening and then closing the cover to remove jammed paper.

*2 An error which is handled as an error code occurs. It is highly possible that the machine is recovered by opening and then closing the cover. Therefore, the jam message is indicated to make the user to open and then close the cover to recover the machine. If the machine is not recovered by opening and then closing the cover, refer to the error log, and perform the remedy for the error code which has occurred at the same time.

*3 Limited functions jam is a jam for preventing an original to be left inside the machine when a problem which requires the machine moves to limited functions mode occurs. If an error occurs for some reasons, a jam message is displayed to make the user to perform jam removal. After that, an error is displayed, and the device enters limited functions mode. The machine recovers when the cause of the error is solved.

If this jam occurs, refer to the error log, and perform the remedy for the error code which has occurred at the same time.

NOTE:

Settings/Registration (method for resuming when a feeder paper jam occurs)

When performing stream reading, the method for resuming after a jam has occurred can be set.

Setting item is as follow.

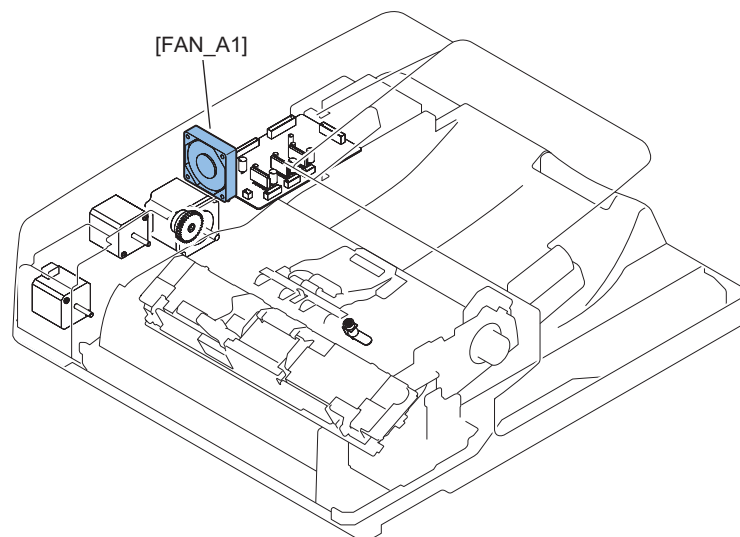
- From 1st Page: After removing the jam, load all original pages in the Document Pickup Tray again. After the Start key is pressed, the machine feeds the original pages that were already read until the jam occurred without reading them again, and resume reading of the remaining pages. (Default)
- From Stopped Original: After removing the jam, only load the original pages that have not yet been read in the Document Pickup Tray again. After the Start key is pressed, the machine resumes reading of the remaining pages.

This equipment supports stream reading of 150 original pages (80 g/m²), so if a jam occurs at the 149th page of a 150 page original, for example, it can take up to 2 minutes to resume reading if all the original pages are loaded again. Resuming from the original page where reading stopped enables shorter jam recovery times.

Fan

This equipment has a single fan. Its functions are indicated below.

Code	Name	Function
FAN_A1	ADF Cooling Fan	Cooling the ADF Driver PCB (UN_BO1) and 3 motors



Power Supply Assembly

An overview of the power supply is indicated below.

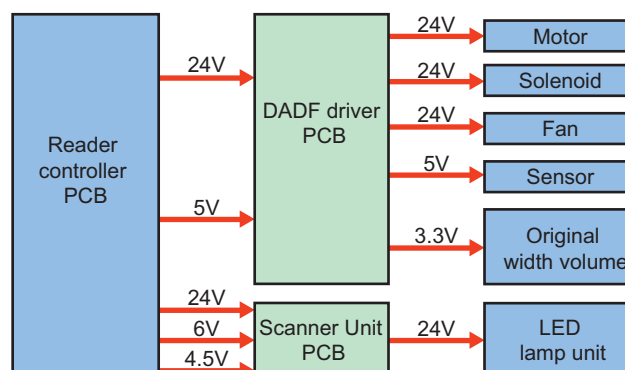
With this equipment, 4 types of power (24 V, 12 V, 6 V, and 5 V) are received from the Reader Unit.

The 24 V power is mainly used for the motor, solenoid, fan.

The 12 V power is mainly used for the LED Lamp Unit.

The 5 V power is mostly used for the sensors.

3.3 V power is generated via a converter on the ADF Driver PCB and supplied to the Original Width Volume.



Related Error Code

Power supply (24 V) error

- E227-0101: 24 V port is OFF when the power of the DF Unit is turned ON

Main Controller System

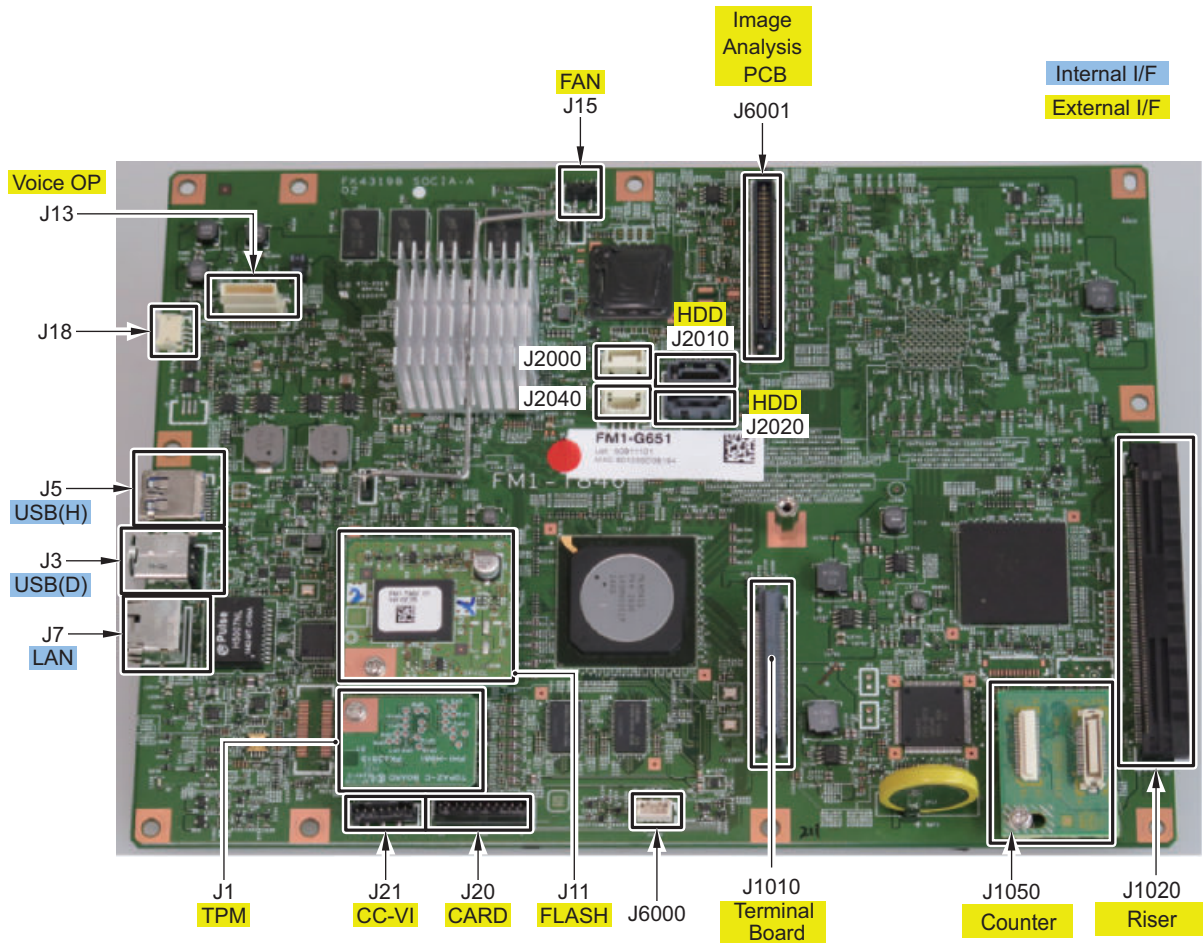
Specifications / Configuration

Configuration/Function



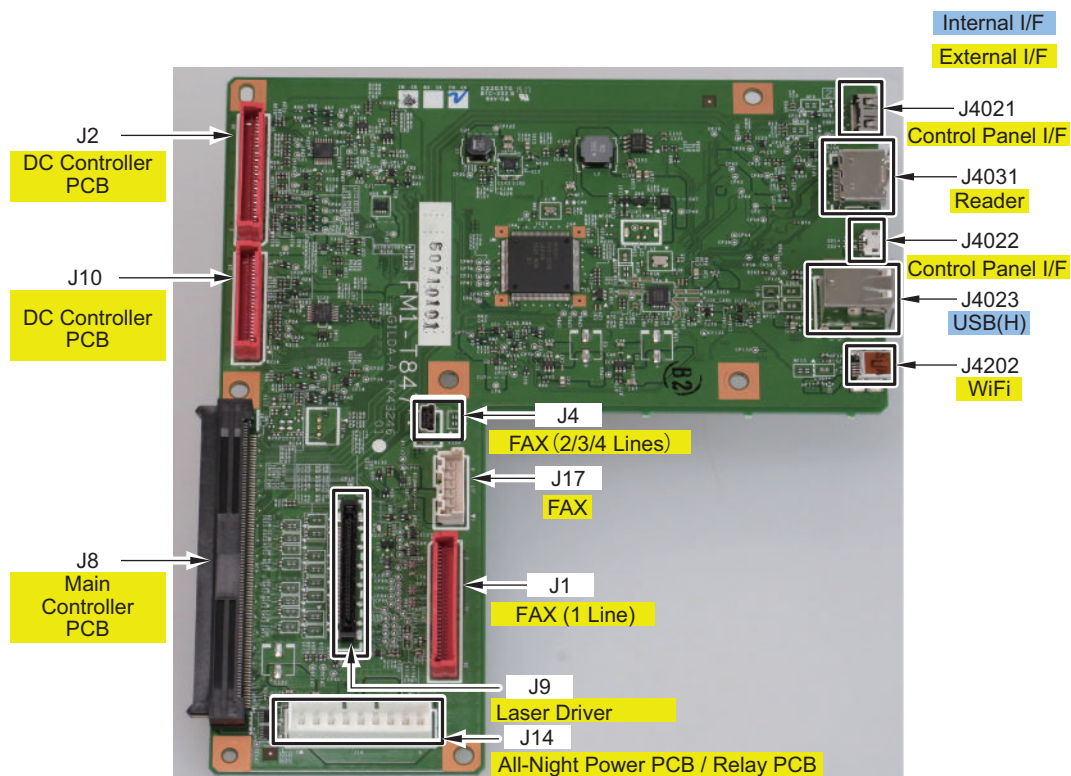
Item	Function
Main Controller PCB	System Control/Memory Control/Printer Output Image Processing Control, Reader Image Input Processing, Card Reader Connection I/F, Fax Image Processing, USB Extension HUB Connection I/F, RTC
RAM	Temporarily storage of image data: Capacity of 2 GB (for controller control) + 1 GB (for image processing)
USB port	USB2.0 Device I/F, USB3.0 Host I/F
Hard disk	2.5-inch SATA I/F Standard: 250 GB (250 GB usable area), address book, security information (password, certificate), image data, preferences
Flash PCB	Storage of system software: 2 GB
TPM PCB	Generation and storage of the encryption key: Only when Management Settings > Data Management > TPM Settings is "On". (Default: OFF)

■ Main Controller PCB



No.	Functions and specifications	No.	Functions and specifications
J1	TPM PCB	J21	Copy Card Reader
J3	USB I/F (device)	J1010	Open I/F Board (for external controller)
J5	USB I/F (host)	J1020	Riser PCB
J7	LAN I/F	J1050	Counter PCB / Relay PCB
J9	-	J1100	Image Data Analyzer PCB
J11	Flash PCB	J2010 / J2000	Hard disk
J13	Voice-Operation Voice-Guidance	J2020 / J2040	Hard disk for mirroring
J15	Controller Fan		
J18	-		
J20	Serial Interface Kit Copy Card Reader		

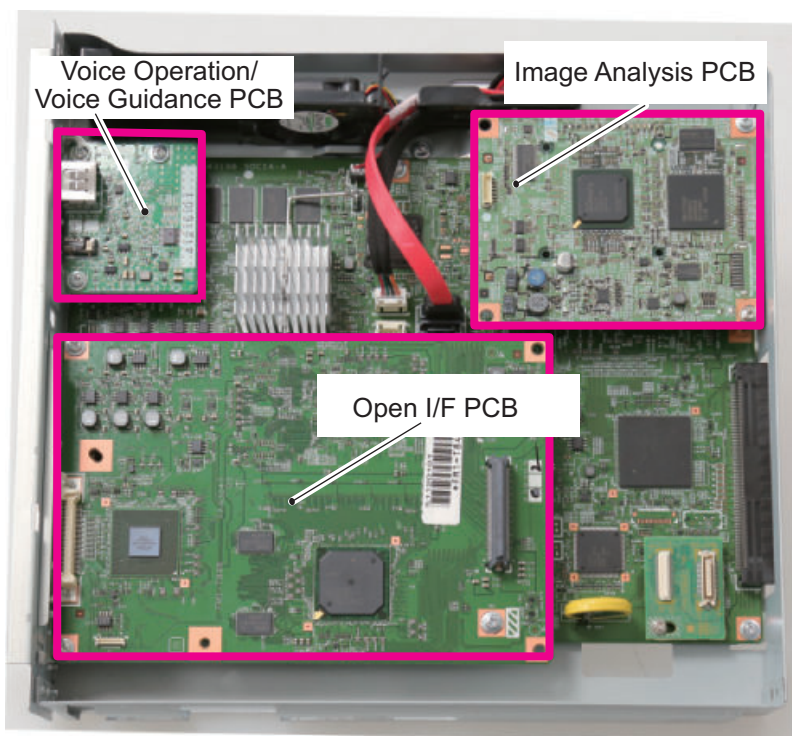
■ Riser PCB



No.	Functions and specifications	No.	Functions and specifications
J1 / J17	Fax (1-Line)	J14	All-night Power Supply/Relay Board
J2	DC Controller PCB	J4021	Control Panel I/F
J4 / J17	Fax (2/3/4-Line)	J4022	Control Panel I/F
J8	Main Controller PCB	J4023	IC Card Reader (upper) / USB (lower)
J9	Laser Driver	J4031	Reader
J10	DC Controller PCB	J4202	WiFi

■ Function Expansion System Options

Main Controller PCB



Name	Functions, specifications and features
Voice Recognition PCB	Voice Operation Kit, Voice Guidance Kit (for models outside Japan)
Open I/F PCB	imagePASS-P2
Image Data Analyzer PCB	Scan protection for output original (Copy/SEND/Mail Box)

● Motion Sensor

Function

Features of the Motion Sensor functions are shown below.

- When the machine detects a person staying in front of it (in the area where the sensor works) for more than a certain period of time, it automatically recovers from sleep mode.
- It judges whether the person is a user or a passerby and controls not to perform recovery triggered by passersby in order to reduce unnecessary power consumption.
- Criteria for judging whether a person is a user or passerby are shown below.
 - If a person approaches the machine from the front, the sensor judges the person as a user and starts recovery from sleep mode quickly.
 - If a person approaches the machine from the side, the sensor judges the person walking fast as a passerby and the person walking slowly as a user.
- The machine may recover from sleep mode in response to the detection of the passerby walking slowly, but the machine shifts to sleep mode again if it is not operated within a specified period of time.

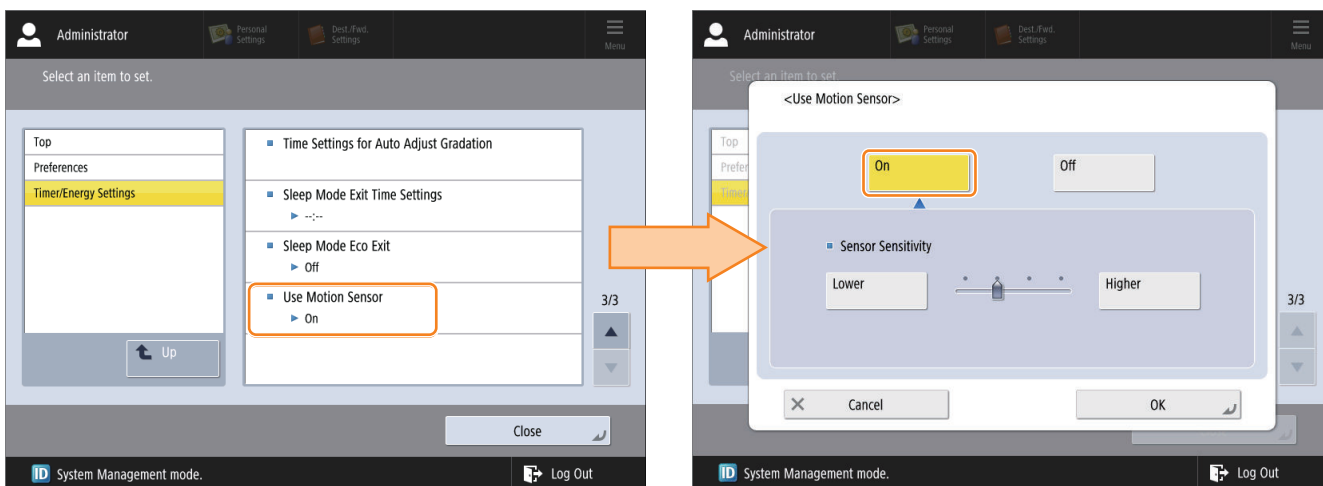
CAUTION:

Do not block the opening because the sensor generates ultrasonic waves and detects reflected waves.

Settings/Registration

This function can be set from the following menu.

[Settings/Registration] > [Preferences] > [Timer/Energy Settings] > [Use Motion Sensor]
ON/OFF of this function and the sensor sensitivity can be configured.



Shutdown Sequence

Before shutting down the power supply, it is necessary to perform the HDD completion process (Purpose: to prevent damage on the HDD) and execute the fixing disengagement operation. This series of process is called "shutdown sequence".

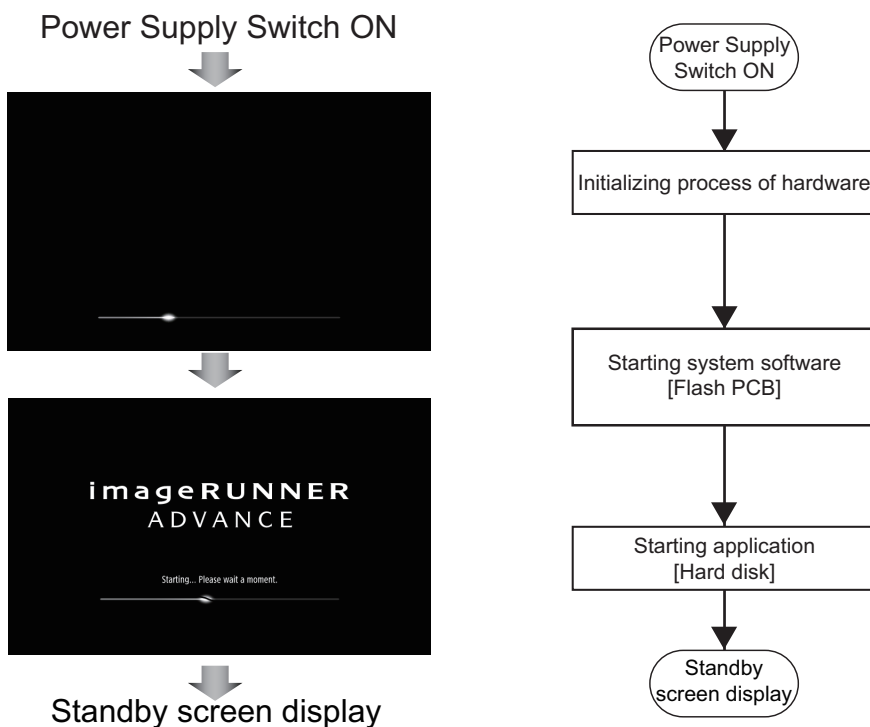
With this machine, the Main Controller PCB detects turning OFF the Main Power Supply Switch, and the shutdown sequence is started and executed automatically.

Note that the maximum shutdown time with this machine is 90 seconds. (If the maximum of 90 seconds has elapsed, the power supply is turned OFF by the hard timer circuit on the Relay PCB.)

NOTE:

If the power supply is stopped without shutting down the machine, or if the processing to completely delete the hard disk (deletion of the primary file) fails to be completed within the shutdown time (max. 90 sec.), data consistency is checked at startup, during which the progress bar is displayed.

Startup Sequence



Screen sequence and internal processing sequence

NOTE:

To achieve faster startup, the progress bar and the active PCB are not synchronized.
For this reason, the progress bar cannot be utilized for troubleshooting.
For information about troubleshooting, refer to "Related error codes (major error codes)" shown below.

NOTE:

When system verification* at startup is ON, startup of system software takes more time than when OFF.

*: Settings/Registration (login as an administrator) > [Management Settings] > [Security Settings] > [System verification at startup]
Note that when the machine is recovering from sleep mode or at Quick Startup, system verification is not performed even it is set to ON.

Related error codes (major error codes):

- E602-0001: HDD detection error
- E614-0001: Flash PCB detection error
- E614-0002: Error in file system on the Flash PCB
- E614-4001: Error in file system on the Flash PCB
- E614-4002: Error in file system on the Flash PCB
- E748-2010: Flash PCB error / HDD error

NOTE:

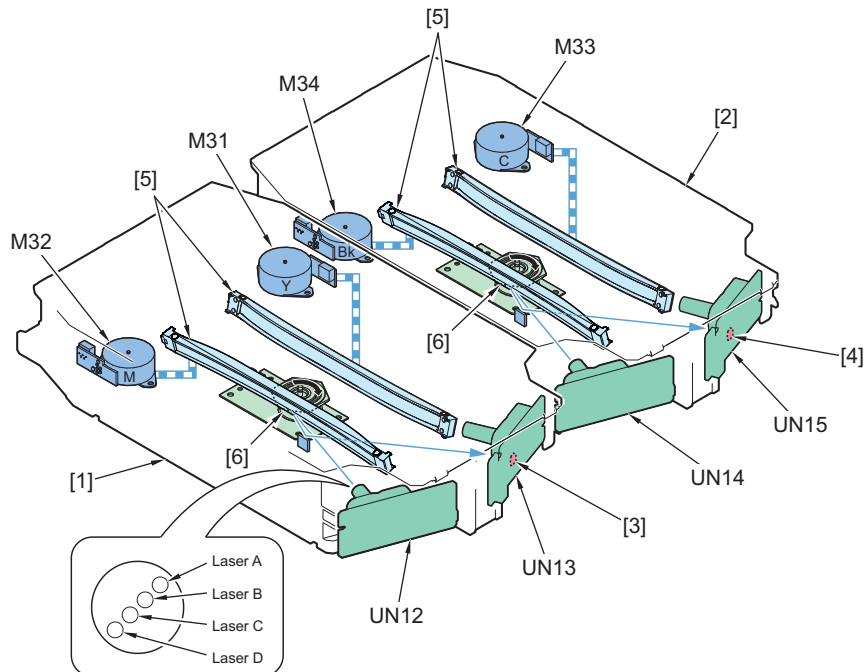
When the following errors occur, the system of the host machine has not been started normally. Therefore the error code is not recorded in the log.

E602-XX01, E614-XX01, E748-2010

Laser Exposure System

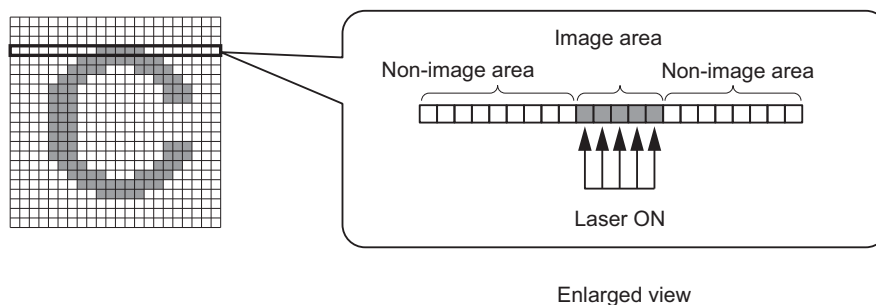
Overview

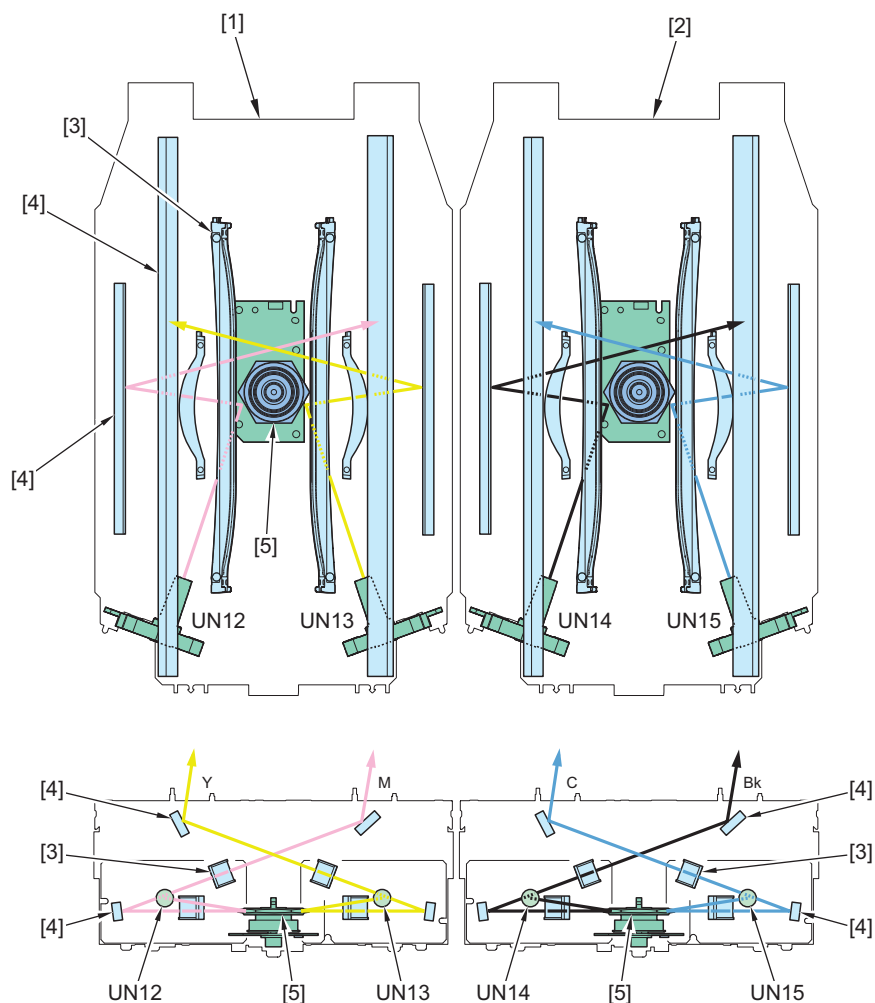
Because this machine supports high-speed operations, two Laser Scanner Units are employed and the Laser Driver for each color performs laser scanning with four beams.



No.	Name	No.	Name
[1]	Laser Scanner Unit 1	M32	Image Skew Correction Motor (M)
[2]	Laser Scanner Unit 2	M33	Image Skew Correction Motor (C)
[3]	BD Sensor (Y, M)	M34	Image Skew Correction Motor (Bk)
[4]	BD Sensor (C, Bk)	UN12	Laser Driver PCB (M)
[5]	Imaging Lens	UN13	Laser Driver PCB (Y)
[6]	Scanner Mirror	UN14	Laser Driver PCB (Bk)
M31	Image Skew Correction Motor (Y)	UN15	Laser Driver PCB (C)

Laser is applied to the image on the negatively-charged drum with this machine.





No.	Name	No.	Name
[1]	Laser Scanner Unit 1	UN12	Laser Driver PCB (M)
[2]	Laser Scanner Unit 2	UN13	Laser Driver PCB (Y)
[3]	Imaging Lens	UN14	Laser Driver PCB (Bk)
[4]	Reflection Mirror	UN15	Laser Driver PCB (C)
[5]	Scanner Mirror		

■ Specification

Item	Description
Wave length	787 to 800nm
Laser type	Infrared (invisible) laser
Laser output	15mW
Number of Laser Scanner Units	2
Number of Laser Beams	Four beams/line for each color
Resolution	1200dpi
Motor type	Brushless motor
Number of motor rotations	60ppm : 31181.1 rpm 50/40ppm : 26220.5 rpm 35ppm : 17126.0 rpm
Number of Scanner Mirror facets	6 facets (Φ40)
List of Controls	Laser ON/OFF Control Horizontal Scanning Synchronization Control Vertical Scanning Synchronization Control APC Control Laser Scanner Motor Control

Item	Description
List of Controls	BD Correction Control
	Laser Shutter Control
	Image Skew Correction Control

Laser ON/OFF Control

Purpose

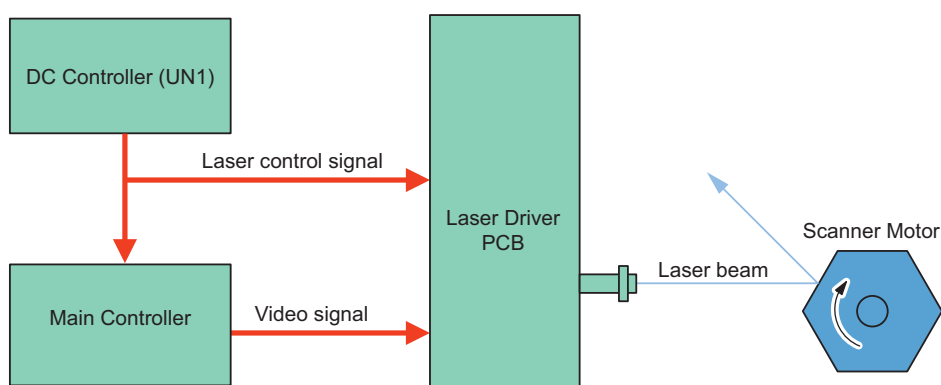
Turns the laser beam ON and OFF according to the combination of laser control signals.

Execution timing

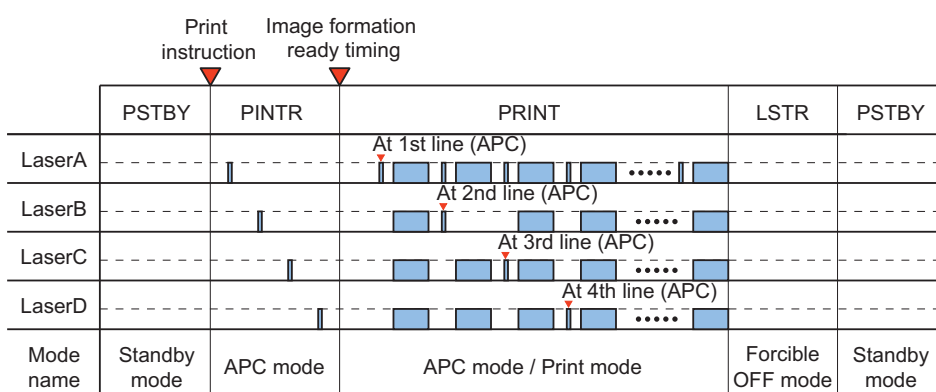
After turning ON the power

Control description

The DC Controller performs the register setting of the Laser Polygon Control ASIC on the Laser Driver PCB. This Laser Polygon Control ASIC switches between four modes (Forced OFF mode, APC mode, Print mode, and Standby mode).



Mode	Laser status	Remarks
Forced OFF mode	OFF	Clears the light intensity setting determined by the APC.
APC mode	ON	Adjusts laser light intensity.
Print mode	On/Off	Emits the laser according to the video signal.
Standby mode	OFF	The machine is in standby mode.



Horizontal Scanning Synchronization Control

Purpose

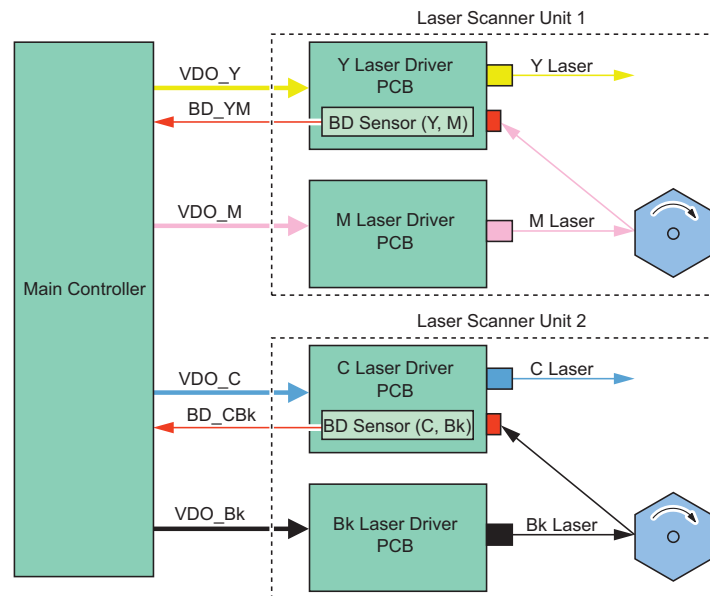
Aligns the write start position in the horizontal scanning direction.

Execution timing

Every line

Control description

1. The Main Controller forcibly activates the laser diode of the M Laser Driver PCB by setting the M laser control signal to APC mode. Similarly, the Main Controller forcibly activates the laser diode of the Bk Laser Driver PCB by setting the Bk laser control signal to APC mode.
2. The BD Sensor (YM) is located on the scanning light path of the laser beam of the M laser, and the laser beam is incident on the BD Sensor (YM). Similarly, the BD Sensor (CBk) is located on the scanning light path of the laser beam of the Bk laser, and the laser beam is incident on the BD Sensor (CBk).
3. The two BD sensors detect the laser beam, generate BD signals (BD_YM, BD_CBk), and then send them to the Main Controller.
4. The Main Controller outputs video signals (VDO_Y, VDO_M, VDO_C, VDO_Bk) to each Laser Driver PCB when it receives these BD signals. This enables the laser driver to emit a laser beam from a fixed position for each line.



Vertical Scanning Synchronization Control

Purpose

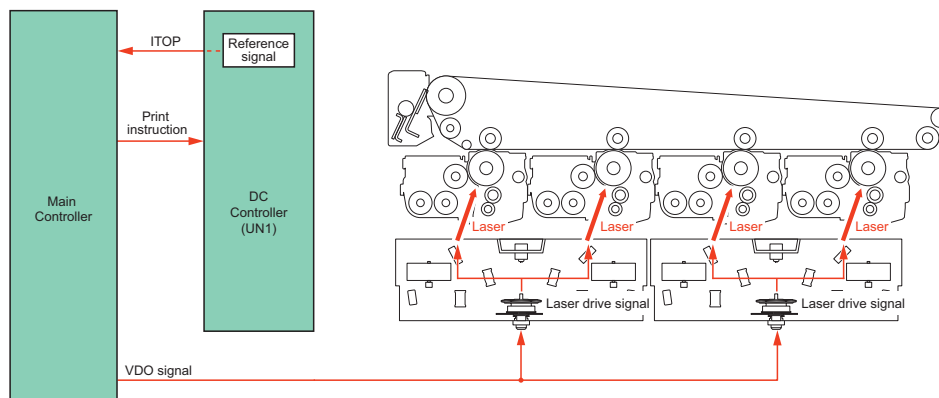
Aligns the write start position in the vertical scanning direction.

Execution timing

At each print

Control description

1. The DC Controller detects an internal reference signal when it receives a print order. Based on this signal, a vertical scanning synchronous signal (ITOP) is generated and sent to the Main Controller.
2. The Main Controller synchronizes with ITOP signal and generates VDO signals (Y_VDO, M_VDO, C_VDO and Bk_VDO), and sends them to the Laser Scanner Unit.
3. The Laser Scanner Unit generates the laser drive signals based on the VDO signals. At this timing, the Laser Scanner Unit emits laser beams to match the leading edge of image with that of paper.



APC (Auto Power Control)

Purpose

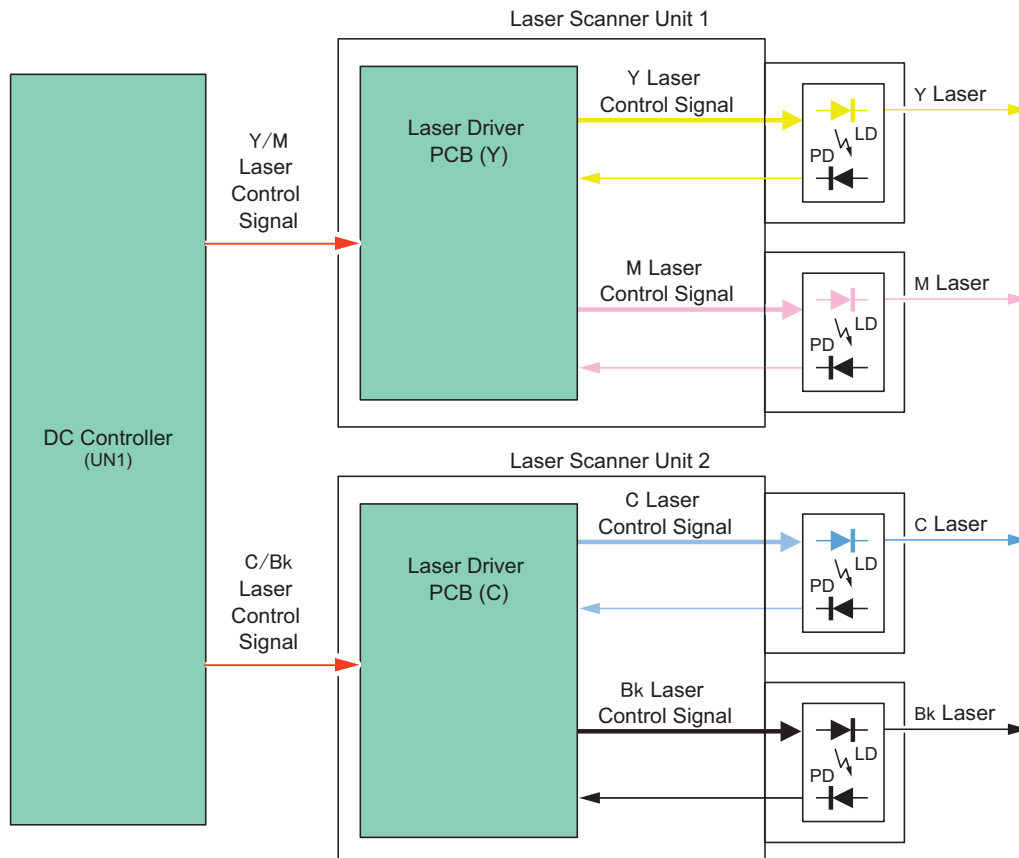
Ensures constant laser beam light intensity for each line.

Execution timing

For each line (before writing the image)

Control description

1. The DC Controller outputs the laser control signal to the Laser Driver IC of each Y/C Laser Driver PCB.
2. The APC mode is set for the Laser Driver ICs of each Y/C Laser Driver PCB and the laser diode of each color is forcibly activated. Each Laser Driver IC simultaneously monitors the laser diode (LD) with the Photo Diode (PD) and adjusts output of laser diode until the laser light intensity reaches a specified level.



Laser Scanner Motor Control

Purpose

Rotates the Scanner Mirror at a specific speed.

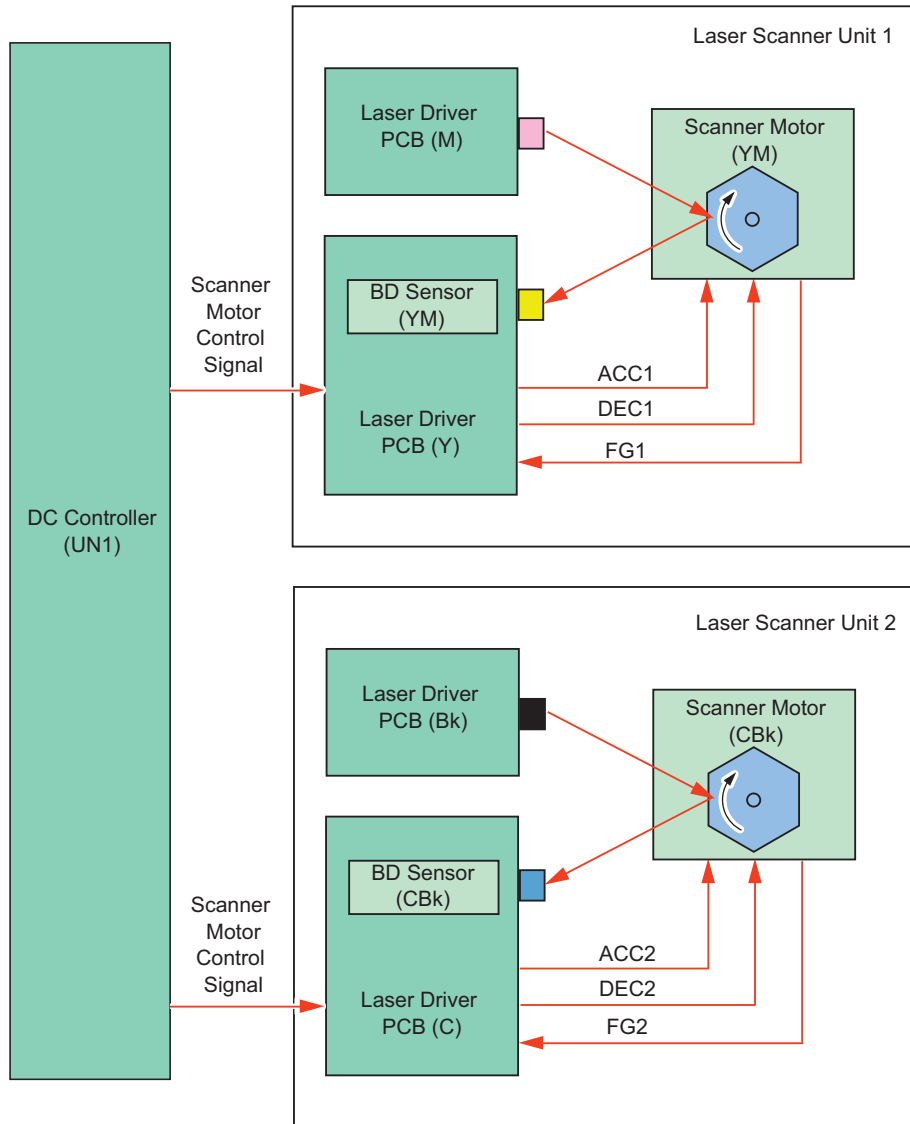
Execution timing

At power-on, and at each print

Control description

Scanner Motor rotation speed is controlled by the Y/C Laser Driver PCB.

1. The Y/C Laser Driver PCB outputs Scanner Motor control signals (acceleration signal: ACC, deceleration signal: DEC) to the Scanner Motor to rotate the Scanner Mirror.
2. The Y/C Laser Driver PCB detects the acceleration detection signal (FG1 to 2, BD_YM, BD_CBk) and controls the acceleration signal (ACC1 to 2) and deceleration signal (DEC1 to 2) to keep the specified speed in comparison with the reference signal in the Main Controller.



Related Error Code

- E100-0100: BD signal was not detected although a specified period of time had passed during operation of the Laser Scanner (Y, M).
- E100-0102: Correction in timing of laser exposure to the Polygon Mirror (Y, M) was not completed within the specified period of time.
- E100-0300: BD signal was not detected although a specified period of time had passed during operation of the Laser Scanner (C, Bk).
- E100-0302: Correction in timing of laser exposure to the Polygon Mirror (C, Bk) was not completed within the specified period of time.
- E102-0101: An error in check sum of EEPROM on the Laser Scanner was detected (Y, M).
- E102-0301: An error in check sum of EEPROM on the Laser Scanner was detected (C, Bk).

BD Correction Control

Purpose

Corrects the displacement of each color's laser write start position due to the varied angle of the Scanner Mirror surface.

Execution timing

At power-on, and at each print

Control description

1. The Main Controller measures the BD interval after the completion of constant speed rotation control of the Scanner Motor.
2. The Main Controller calculates the correction value from the displacement of the BD interval.
3. The write start position is corrected by correcting the write start timing based on the above correction value.

Laser Shutter Control

Purpose

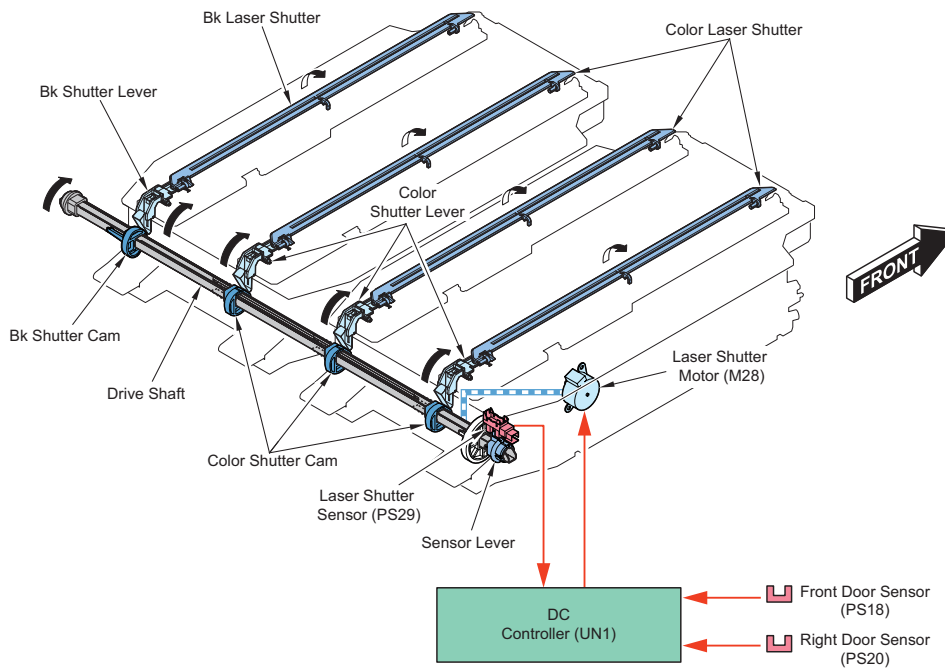
Prevents residual toner getting attached on the Dustproof Glass. Also, prevents exposure of laser light in the machine when the Front Cover/Right Cover is open.

Execution timing

After turning ON the power

Control description

Opens the Laser Shutter while the Laser Scanner Motor is operating. Closes the Laser Shutter at any other time. In addition, the Laser Driver's output signal is stopped when the Front Cover Sensor (PS18) and Right Cover Sensor (PS20) operate together. The Laser Shutter closes and forcibly cuts-off the optical path of the laser when the Front Cover and the Right Cover are opened simultaneously. These operations are controlled by the DC Controller.



Laser shutter position		Relation of shutter lever and cam		Sensor lever position
For Bk	For color	For Bk	For color	
Close	Close			
Open	Close			
Open	Open			

Related Error Code

- E0112-0000: Home position of the Laser Shutter was not detected.
- E0112-0001: Home position was not detected although the Laser Shutter was closed.
- E0112-0002: Change in home position was not detected while the Laser Shutter was open.

Image Skew Correction Control

Purpose

This control is performed to prevent displacement in laser exposure.

Execution timing

- At power-on
- At [Auto Correct Color Mismatch] is executed

Control description

1. The DC Controller forms the patch pattern of each color on the ITB.
2. The DC Controller reads this patch pattern with the patch sensor to detect the degree of color displacement in comparison with the reference value backed-up in the DC Controller.
3. Based on this detection result, the laser exposure position (skew amount) of the Laser Scanner Unit is changed.

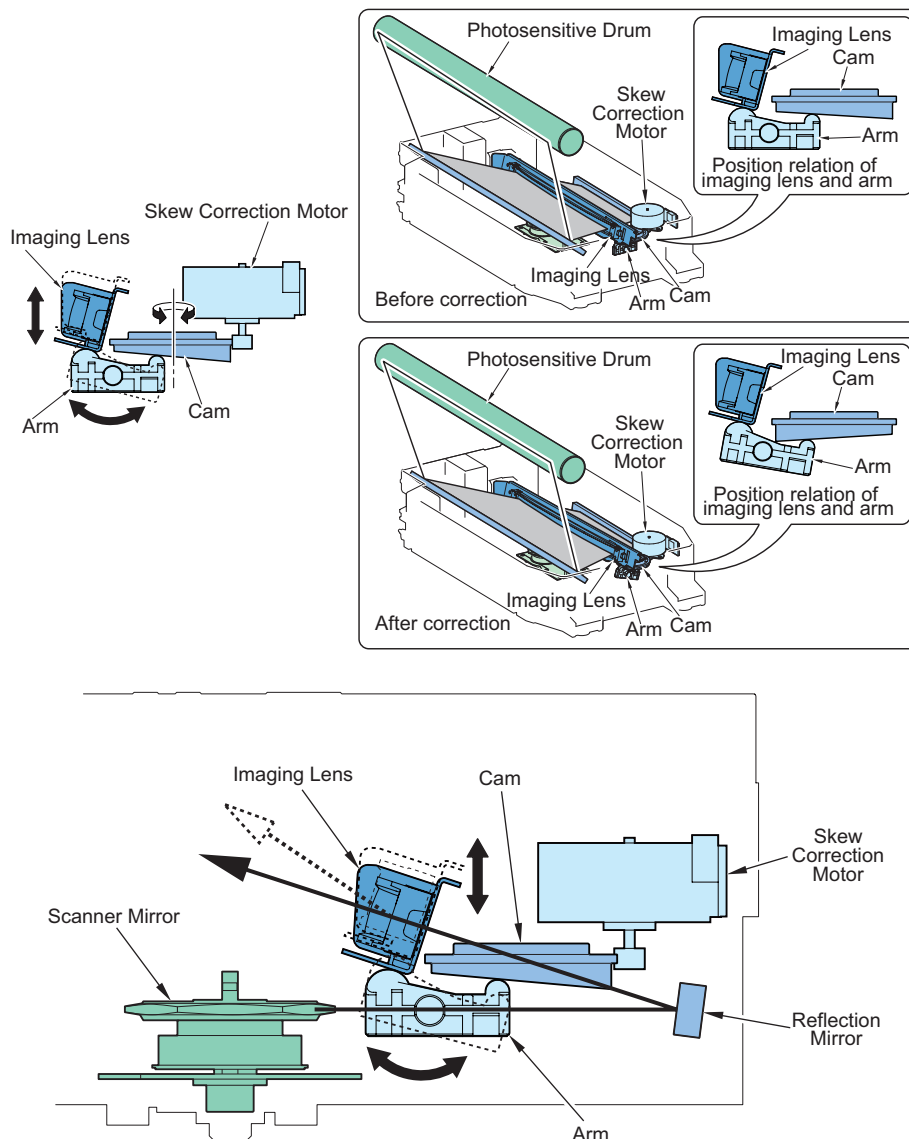


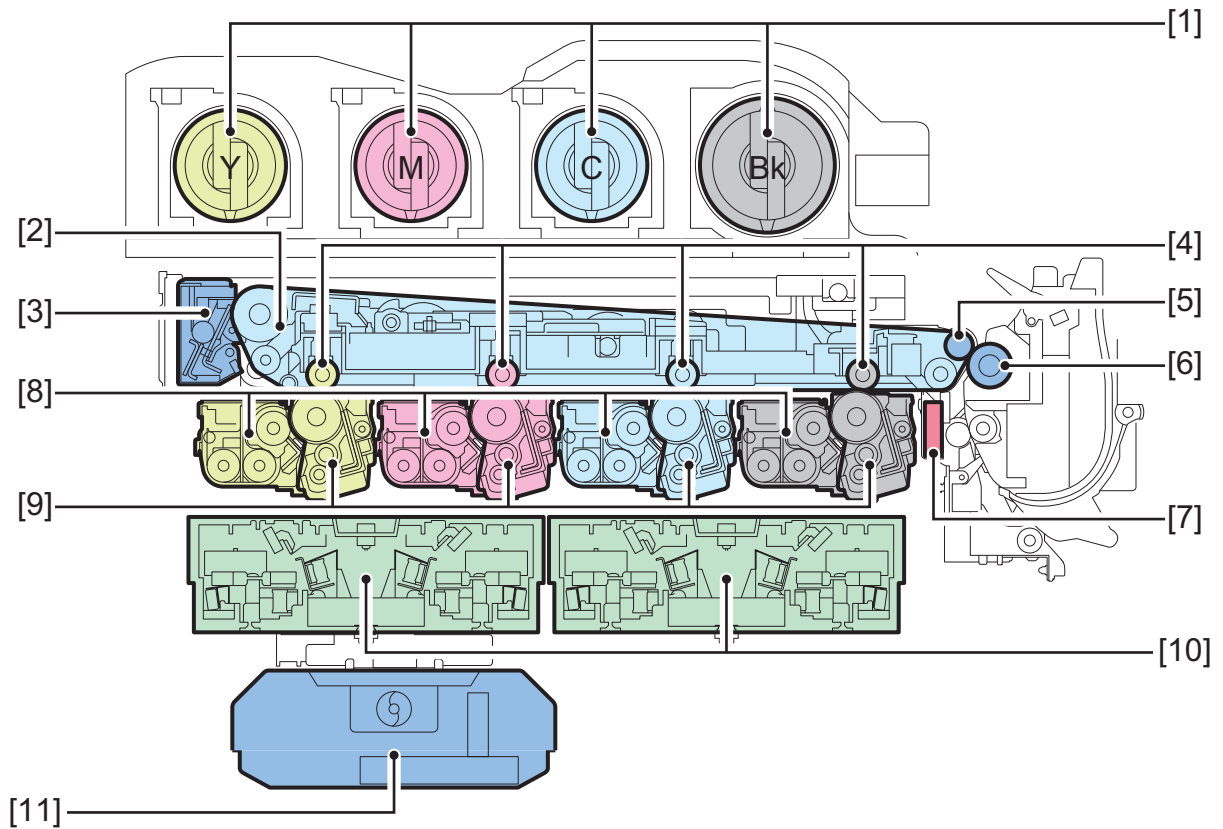
Image Formation System

Overview

■ Specification

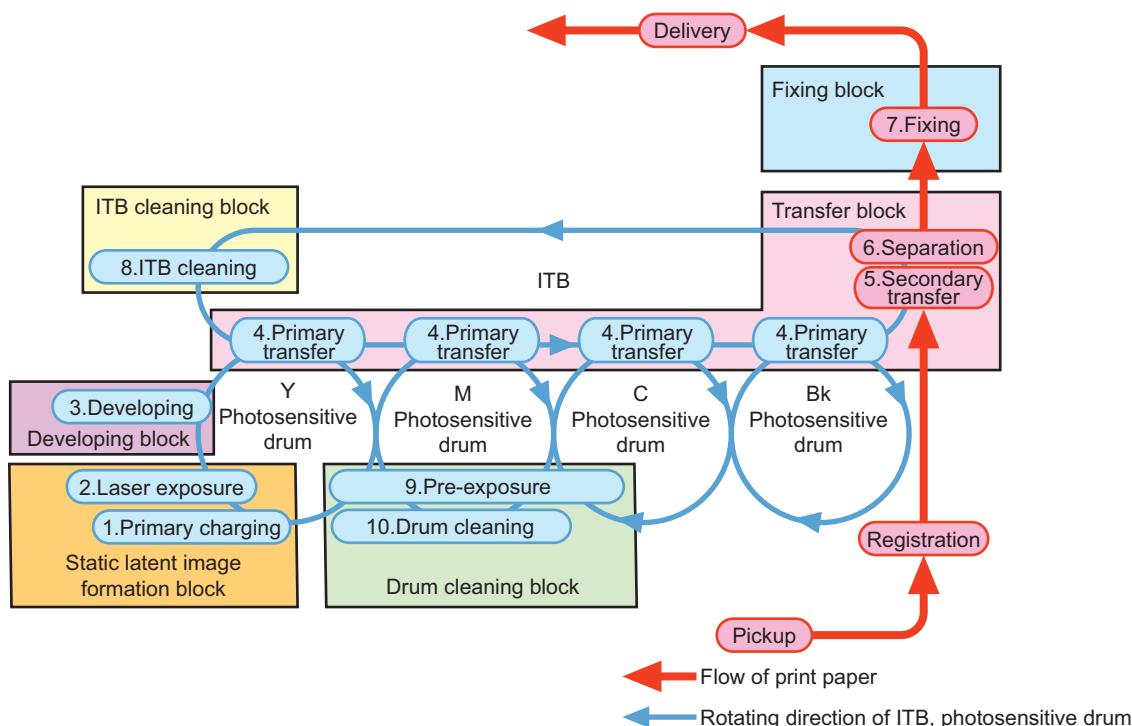
Item		Function/method
Photosensitive Drum	Material	OPC (Organic Photoconductor)
	Cleaning	Cleaning Blade
	Process speed	imageRUNNER ADVANCE C5560 III series: 264 / 222 / 132 mm/s imageRUNNER ADVANCE C5550 III / 5540 III series: 222 / 132 mm/s imageRUNNER ADVANCE C5530 III series: 145 / 132 mm/s
	Drum Heater	Equipped for all colors as standard
Developing Assembly	Developing Cylinder	1 unit/color (single development)
	Developing method	Dry, 2-component development + ACR method (ACR: Auto Carrier Refresh)
	Toner	2-component (Toner + Carrier)
Primary Charging	Charging method	AC Roller charging
	Cleaning	Cleaning Blade
Toner Container	Possibility of Toner Container replacement (during continuous printing)	Possible
Transfer Method		Intermediate Transfer Belt (ITB) + Roller Transfer (Primary, Secondary)
ITB Unit	Material	Acrylic-coated polyetheretherketone resin
	Cleaning	Cleaning Blade
	Belt displacement correction	Yes (Scanner Sensor)
Primary transfer	Transfer Method	Transfer Roller
	Disengagement mechanism	Yes
Secondary Transfer	Transfer Method	Transfer Roller
	Disengagement mechanism	N/A
	Cleaning	Electrostatic cleaning
Separation method		Curvature separation + Static Eliminator
Patch Sensor		Yes

■ Parts Configuration



No.	Parts name
1	Toner Bottle
2	ITB Unit
3	ITB Cleaner Unit
4	Primary Transfer Roller
5	Secondary Transfer Inner Roller
6	Secondary Transfer Outer Roller
7	Patch Sensor Unit/Registration Sensor Unit
8	Developing Unit
9	Drum Unit
10	Laser Scanner Unit
11	Waste Toner Container

Print Process

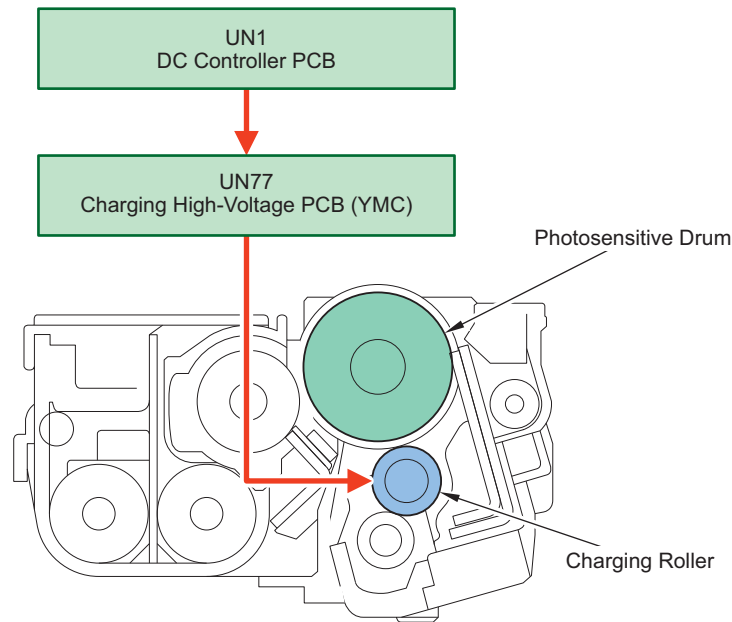


Block	No.	Process	Description
Static latent image formation block	1	Primary charging	The surface of the Photosensitive Drum is charged to make a uniform negative potential.
	2	Laser exposure	Emission of the laser light forms a static latent image on the surface of the Photosensitive Drum. (Image exposure: laser exposed area becomes image area)
Developing block	3	Development	With the dry, 2-component AC developing method, toner that has been negatively charged by the Developing Cylinder is attached to the Photosensitive Drum.
Transfer block	4	Primary transfer	Toner on the surface of the Photosensitive Drum is transferred to the ITB by applying positive charge from the back side of the ITB.
	5	Secondary transfer	Toner on the ITB is transferred to the paper by applying positive potential to the Secondary Transfer Outer Roller.
	6	Separation	With the curvature separation method, the paper is separated from the ITB. In the case of thin paper which has low elastic force, the Static Eliminator reduces potential on the back side of paper to make the thin paper to be separated easily.
Fixing block	7	Fixing	The toner on the paper is fixed on the paper by heat and pressure.
ITB cleaning block	8	ITB cleaning	The Cleaning Blade removes the residual toner attached on the ITB.
Drum cleaning block	9	Drum Cleaning Pre-exposure	Pre-exposure LED Unit removes the residual charge.
	10	Drum cleaning	The Cleaning Blade removes the residual toner attached on the Photosensitive Drum.

Charging Control

To charge the Photosensitive Drum surface to a negative potential, this machine uses the Charging Roller to perform charging control.

Note that since this machine has the high voltage circuits independent for each color, different biases can be applied for each color.



Charging control superimposes an AC bias in addition to the primary charging DC bias using the Charging Roller adjacent charging method.

■ Charging DC Bias

The setting value of the charging DC bias is determined by D-max control (“D-max Control” on page 122) so that the optimal image density can be achieved.

Related Service Mode

Display of the each color developing DC bias:

- (Level 2) COPIER > Display > DENS > DEV-DC-Y
- (Level 2) COPIER > Display > DENS > DEV-DC-M
- (Level 2) COPIER > Display > DENS > DEV-DC-C
- (Level 2) COPIER > Display > DENS > DEV-DC-K

Adjustment of the each color fogging removal potential:

- COPIER > Adjust > V-CONT > VBACK-Y
- COPIER > Adjust > V-CONT > VBACK-M
- COPIER > Adjust > V-CONT > VBACK-C
- COPIER > Adjust > V-CONT > VBACK-K

Adjustment of the each color contrast potential:

- COPIER > Adjust > V-CONT > VCONT-Y
- COPIER > Adjust > V-CONT > VCONT-M
- COPIER > Adjust > V-CONT > VCONT-C
- COPIER > Adjust > V-CONT > VCONT-K

Display of the each color primary charging DC voltage:

- COPIER > Display > DENS > CHG-DC-Y
- COPIER > Display > DENS > CHG-DC-M
- COPIER > Display > DENS > CHG-DC-C
- COPIER > Display > DENS > CHG-DC-K

■ Charging AC Bias Control

For AC bias, discharge current control is performed to calculate an appropriate V_{pp} (potential difference between the maximum value and minimum value of the AC voltage waveform).

Related Service Mode

Adjustment of each color charging AC voltage (at high speed):

COPIER > Adjust > HV-PRI > OFSTAC-Y
 COPIER > Adjust > HV-PRI > OFSTAC-M
 COPIER > Adjust > HV-PRI > OFSTAC-C
 COPIER > Adjust > HV-PRI > OFSTAC-K

Adjustment of each color charging AC voltage (at low speed):

COPIER > Adjust > HV-PRI > OFSTACY2
 COPIER > Adjust > HV-PRI > OFSTACM2
 COPIER > Adjust > HV-PRI > OFSTACC2
 COPIER > Adjust > HV-PRI > OFSTACK2

■ Discharge Current Control

This machine performs sampling for the time corresponding to a single drum rotation for each voltage to control the discharge current because of the following reasons.

Discharge current control outputs Vpp to an area uncharged by AC bias and an area charged by AC bias, and performs sampling of the current to calculate the optimal discharge current.

The amount of discharge from the Charging Roller that is based on temperature characteristics is significantly affected by environmental changes. Therefore, the discharge amount needs to be corrected in accordance with the changes.

Related Service Mode

Adjustment of the discharge current control target current for each color (at high speed):

Adjust the offset of the discharge current control target current for each color when the process speed is high.
 (Level 2) COPIER > Adjust > HV-PRI > DIS-TGY
 (Level 2) COPIER > Adjust > HV-PRI > DIS-TGM
 (Level 2) COPIER > Adjust > HV-PRI > DIS-TGC
 (Level 2) COPIER > Adjust > HV-PRI > DIS-TGK

Adjustment of the discharge current control target current for each color (at low speed):

Adjust the offset of the discharge current control target current for each color when the process speed is low.
 (Level 2) COPIER > Adjust > HV-PRI > DIS-TGY2
 (Level 2) COPIER > Adjust > HV-PRI > DIS-TGM2
 (Level 2) COPIER > Adjust > HV-PRI > DIS-TGC2
 (Level 2) COPIER > Adjust > HV-PRI > DIS-TGK2

■ Drum Unit Detection

Whether the Drum Unit is installed or not is detected.

Detection timing:

- At power-on
- When recovering from sleep (after 8 hours or more have elapsed)

Detection description:

The following is determined from the AC current monitor value when discharge current control is executed to detect the presence or absence of the Drum Unit.

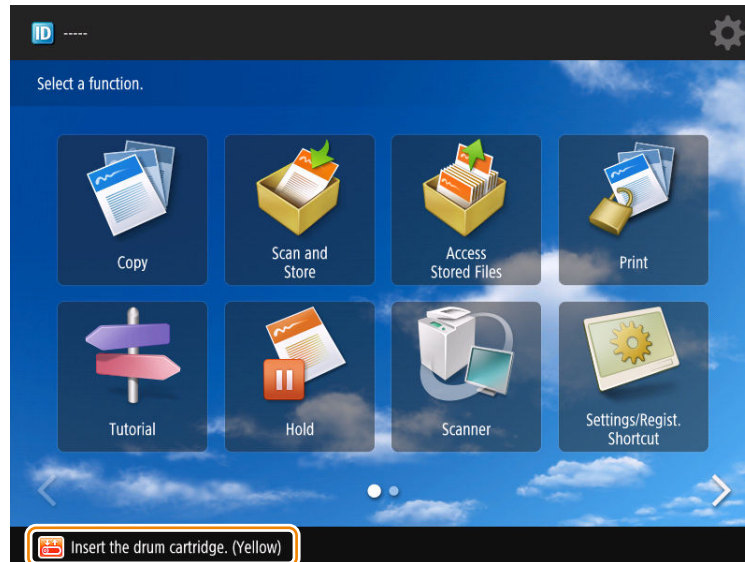
- When the current monitor value is less than the specified value: Drum Unit absent
- When the current monitor value is the specified value or higher: Drum Unit present

NOTE:

If the Drum Unit is detected as present but the memory of the Drum Unit is not detected, alarm code 09-0010/0011/0012/0013 is generated.

Operation of the host machine:

If the Drum Unit is detected as absent, "Insert the drum unit. (XXXX)" is displayed on the status line of the Control Panel. (XXXX is the color name.)

**NOTE:**

Detection of presence/absence of a Drum Unit may not be executed at times such as at recovery from sleep mode (of less than 8 hours).

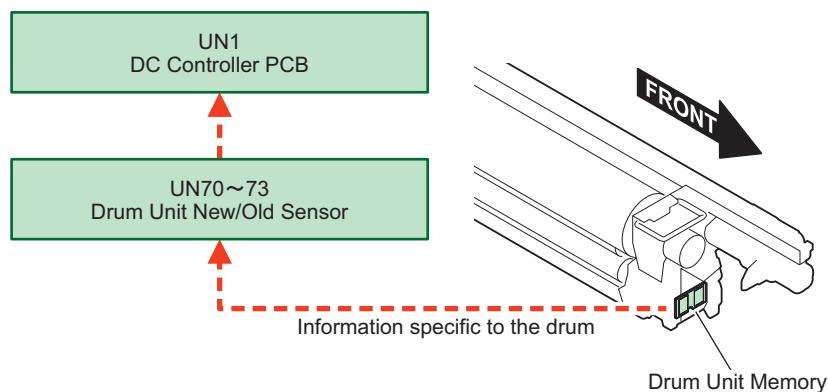
■ Drum Unit Detection (New/Old)

This machine reads information recorded in the Drum Unit Memory and detects whether the drum is new or old based on the information, when the power is turned on.

When a new drum is detected, it is judged that the Drum Unit has been replaced.

Operation of the host machine:

1. Check whether Drum Unit Memory is present in each drum unit.
2. If there is Drum Unit Memory, judge whether the Drum Unit is new or old (has been replaced or not).



Related Alarm Codes

Drum Unit (each color) replacement completion alarm:

- Drum Unit (Y) replacement completion alarm: 43-0070
- Drum Unit (M) replacement completion alarm: 43-0071
- Drum Unit (C) replacement completion alarm: 43-0072
- Drum Unit (Bk) replacement completion alarm: 43-0073

Drum memory tag detection error (each color):

- Drum memory tag detection error (Y): 09-0010
- Drum memory tag detection error (M): 09-0011
- Drum memory tag detection error (C): 09-0012
- Drum memory tag detection error (Bk): 09-0013

■ Drum Unit Life Detection

Purpose

To display the LIFE and Remaining Days of the Drum Unit (photosensitive drum) to notify the replacement timing. The LIFE and the Remaining Days can be checked in the service modes below.

Consumption level check

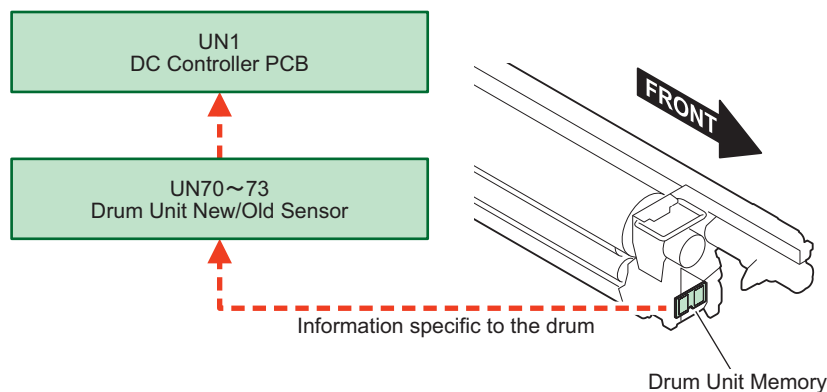
Service Mode:

- COPIER > COUNTER > LIFE > PT-DR-Y
- COPIER > COUNTER > LIFE > PT-DR-M
- COPIER > COUNTER > LIFE > PT-DR-C
- COPIER > COUNTER > LIFE > PT-DRM

Control details

The life of Drum Unit for this equipment is calculated from the data of Drum Film Thickness measured based on the data during voltage application.

The calculated life is recorded in the drum memory as individual drum information. The recorded information can be checked in service mode.



Item	Advance notice alarm	Replacement completion
Alarm code name	Drum Unit advance notice alarm *1	Drum Unit replacement completion alarm
Alarm code	<ul style="list-style-type: none"> • 40-0070 : Y • 40-0071 : M • 40-0072 : C • 40-0073 : K 	<ul style="list-style-type: none"> • 43-0070 : Y • 43-0071 : M • 43-0072 : C • 43-0073 : Bk
Message (Host machine operation)	-	-
Detection timing	When the consumption level of the Drum Unit reaches the value set for the Drum Unit (each color) advance notice alarm notice timing *1 *2	When a new Drum Unit is detected.
Detected to (location)	Drum Unit Detection Sensor (New/Old)	
Alarm log display	ALARM-3 *3	ALARM-3

*1 : Whether to display/hide and the display timing can be specified in the following service modes (-1 to 365, -1: The alarm not issued, the default value differs depending on the country.)

- COPIER > OPTION > PM-DLV-D > PT-DR-Y
- COPIER > OPTION > PM-DLV-D > PT-DR-M
- COPIER > OPTION > PM-DLV-D > PT-DR-C
- COPIER > OPTION > PM-DLV-D > PT-DRM

*2 : The life value and the remaining days of Drum Unit can be viewed in the following service mode.

- COPIER > COUNTER > LIFE > PT-DR-Y
- COPIER > COUNTER > LIFE > PT-DR-M
- COPIER > COUNTER > LIFE > PT-DR-C
- COPIER > COUNTER > LIFE > PT-DRM

*3 : After an advance notice alarm is sent, the next advance notice alarm will not be sent until the replacement completion alarm is sent.

Service Mode

- Consumption level of Drum Unit (each color)
COPIER > COUNTER > LIFE > PT-DR-Y
COPIER > COUNTER > LIFE > PT-DR-M
COPIER > COUNTER > LIFE > PT-DR-C
COPIER > COUNTER > LIFE > PT-DRM
- Setting Drum Unit (each color) advance notice alarm notice timing
COPIER > OPTION > PM-DLV-D > PT-DR-Y
COPIER > OPTION > PM-DLV-D > PT-DR-M
COPIER > OPTION > PM-DLV-D > PT-DR-C
COPIER > OPTION > PM-DLV-D > PT-DRM

Alarm code

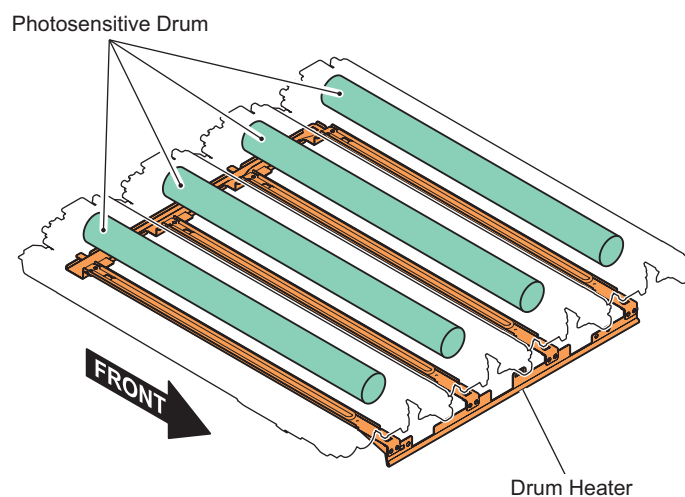
- Drum Unit (each color) advance notice alarm
40-0070 : Y
40-0071 : M
40-0072 : C
40-0073 : K
- Drum Unit (each color) replacement completion alarm
43-0070 : Y
43-0071 : M
43-0072 : C
43-0073 : K

■ Drum Heater Control

A drum heater is provided on the bottom of the Photosensitive Drum in order to deliver charging and exposure that is stable against changes in the internal environment.

This heater is controlled to keep the internal temperature constant. Basically, when the Environment Switch is ON, the heater is ON regardless of ON/OFF of the main power except for during printing. (Excluding the case where the internal temperature is high)

It also controls the Cassette Heater in the same manner. (Refer to the Pickup/Feed System Cassette Heater Control for details)



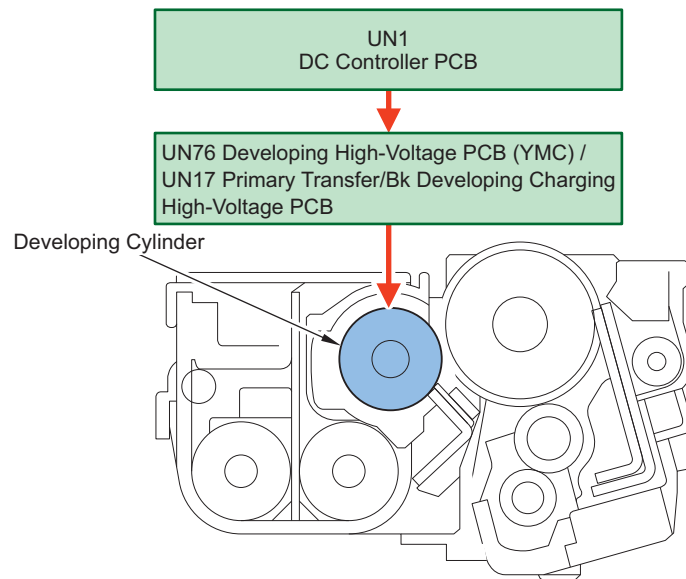
NOTE:

For the conventional models, a drum heater was provided only for Bk and drum heaters for other colors were option. Starting from this model, drum heaters are provided for all colors as standard.

Developing Control

In this machine, charging is performed on the Developing Cylinder the same as the Charging Roller, and imaging is performed using a 2-component developing method for all colors.

The bias applied to the cylinder is calculated from the data calculated based on the absolute moisture content obtained from the Environment Sensor.



Developing DC bias:

The setting value of the voltage for charging the Developing Cylinder is calculated from the environment data, like the data used for setting the charging bias.

Developing AC bias:

Developing performance and development charge injection performance are affected by the humidity and absolute moisture content.

For example, in high humidity environments, charge injection performance is poor but developing performance is good. In contrast, in low humidity environments, charge injection performance is good but developing performance is poor. Developing performance and charge injection performance are affected by the voltage (V_{pp}). Specifically, when V_{pp} decreases, developing performance becomes worse and charge injection performance becomes better.

Related Service Mode

Execution of the initial installation mode of the Developing Assembly (each color):

COPIER > Function > INSTALL > INISET-Y
 COPIER > Function > INSTALL > INISET-M
 COPIER > Function > INSTALL > INISET-C
 COPIER > Function > INSTALL > INISET-K
 COPIER > Function > INSTALL > INISET-4

Stirring of each color developer:

COPIER > Function > INSTALL > STIR-4

Setting of the Developing Cylinder peripheral speed ratio:

COPIER > Option > IMG-DEV > SL-RATIO

Display of the each color developing DC bias:

COPIER > Display > DENS > DEV-DC-Y
 COPIER > Display > DENS > DEV-DC-M
 COPIER > Display > DENS > DEV-DC-C
 COPIER > Display > DENS > DEV-DC-K

Adjustment of the developing AC bias V_{pp} :

COPIER > Option > IMG-DEV > ADJ-VPP

Related Error Code

ATR output error:

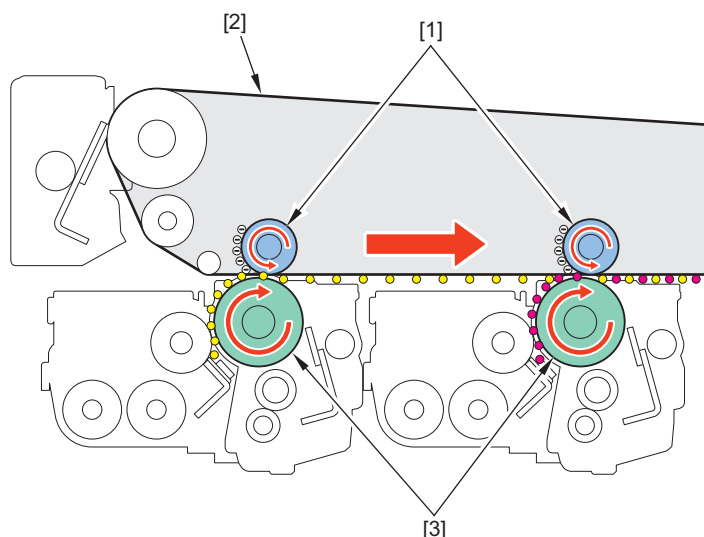
E020-01A8/ E020-01A9
 E020-02A8/ E020-02A9
 E020-03A8/ E020-03A9
 E020-04A8/ E020-04A9
 E020-01B8/ E020-01B9
 E020-02B8/ E020-02B9
 E020-03B8/ E020-03B9
 E020-04B8/ E020-04B9
 E020-0124/ E020-0134
 E020-0224/ E020-0234
 E020-0324/ E020-0334
 E020-0424/ E020-0434

Primary Transfer Control

Basic Control

Primary transfer control refers to control to apply a primary transfer bias to the Primary Transfer Roller and transfer the toner on the Photosensitive Drum to the ITB. Note that the process of transferring toner from the ITB to the paper is called secondary transfer.

Image of operation



No.	Parts name
[1]	Primary Transfer Roller
[2]	ITB
[3]	Photosensitive Drum

Overview

The following is an overview of the basic control in the primary transfer control.

- Apply the primary transfer bias to the Primary Transfer Roller.
- Transferability becomes unstable due to variations in resistance caused by wear of the Primary Transfer Roller, environmental factors, such as temperature and humidity, and others.
 In order to prevent this, this machine performs primary transfer ATVC (Auto Transfer Voltage Control) to calculate the optimal voltage to apply to the roller.
- Since the conditions are not necessarily exactly the same for all of the rollers, primary transfer ATVC is performed to all colors.
- Since the target current also changes if the process speed is changed, primary transfer ATVC is performed for each change in speed.

- Since the ease with which current can flow changes between the state where the Primary Transfer Roller is engaged on the ITB and the state where it is disengaged, conventional models performed primary transfer ATVC each time when performing black and white printing after color printing.

For this machine, to perform black and white printing after performing color printing with ATVC, where all of the rollers are engaged, ATVC is not performed in order to reduce downtime and the voltage for the black and white printing is calculated based on the data obtained during color printing.

Related Service Mode

Setting of paper interval automatic adjustment execution interval

COPIER > Option > FNC-SW > INTROT-1

■ Primary transfer ATVC control

The transfer voltage required to obtain the target transfer current value is set in order to prevent transfer failure due to environmental changes.

This control calculates the target transfer voltage by referring to the data.

Note that this can also be executed optionally with the following service mode.

- COPIER > Function > MISC-P > 1ATVC-EX

Control description:

Measure the transfer current when two different transfer voltages are applied, and calculate the voltage required to achieve a desired transfer current based on the measurement results.

Timing	Conditions for execution	
At power-on	When warm-up rotation is executed at power-on	
At recovery from sleep mode	When recovering from 8 hours or more of sleep mode	
When a job starts	When an environmental change is detected by the Environment Sensor	
During a job	4C/Bk mode	Each 200 sheets fed
		When the accumulated printing duty ratio reaches 3000%
		When ATR control is executed (Refer to “ATR Control” on page 130.)
		When the transparency black band sequence is executed (Refer To “Transparency Black Band Sequence” on page 141.)
		When the black band sequence is executed (Refer to “Black Band Sequence” on page 141.)
	When cleaning of the Secondary Transfer Outer Roller is executed (Refer to “Secondary Transfer Outer Roller Cleaning Control” on page 118.)	
	4C mode	When real-time multiple tone correction is executed (Refer to “Real-time Multiple Tone Correction” on page 125.)
Bk mode	When the toner ejection sequence for low image ratio is executed (Refer to “Toner Ejection Sequence for Low Image Ratio” on page 141.)	
	Each 30 sheets at 1/2 speed	
At job completion	4C mode	When real-time multiple tone correction is executed (Refer to “Real-time Multiple Tone Correction” on page 125.)
		When the accumulated number of sheets reaches 1000
	Bk mode	When the accumulated number of sheets reaches 1000
		When ATR control is executed (Refer to “ATR Control” on page 130.)
		When the toner ejection sequence for low image ratio is executed (Refer to “Toner Ejection Sequence for Low Image Ratio” on page 141.)
When the mode is switched	When an environmental change is detected by the Environment Sensor	
	When replacing the drum	
When the Developing Assembly is replaced	When service mode (COPIER > Function > INSTALL > INISET-Y/M/C/K) is executed	

Related Service Mode

Execution of the primary transfer ATVC control:

COPIER > Function > MISC-P > 1ATVC-EX

Display of the primary transfer current (each color):

(Level 2) COPIER > Display > HV-STS > 1ATVC-Y
 (Level 2) COPIER > Display > HV-STS > 1ATVC-M
 (Level 2) COPIER > Display > HV-STS > 1ATVC-C
 (Level 2) COPIER > Display > HV-STS > 1ATVC-K4

Adjustment of the primary transfer ATVC target current:

(Level 2) COPIER > Adjust > HV-TR > 1TR-TGK1: Adjusts the primary transfer ATVC target current in the single color Bk mode (at high speed)
 (Level 2) COPIER > Adjust > HV-TR > 1TR-TGKT: Adjusts the primary transfer ATVC target current in the color Bk mode (at high speed)
 (Level 2) COPIER > Adjust > HV-TR > 1TR-TK12: Adjusts the primary transfer ATVC target current in the single color Bk mode (at low speed)
 (Level 2) COPIER > Adjust > HV-TR > 1TR-TK13: Adjusts the primary transfer ATVC target current in the single color Bk mode (at medium speed)
 (Level 2) COPIER > Adjust > HV-TR > 1TR-TK42: Adjusts the primary transfer ATVC target current in the color Bk mode (at low speed)
 (Level 2) COPIER > Adjust > HV-TR > 1TR-TK43: Adjusts the primary transfer ATVC target current in the color Bk mode (at medium speed)
 (Level 2) COPIER > Adjust > HV-TR > 1TR-TGC: Adjusts the primary transfer ATVC target current for C-color (at high speed)
 (Level 2) COPIER > Adjust > HV-TR > 1TR-TGC2: Adjusts the primary transfer ATVC target current for C-color (at low speed)
 (Level 2) COPIER > Adjust > HV-TR > 1TR-TGC3: Adjusts the primary transfer ATVC target current for C-color (at medium speed)
 (Level 2) COPIER > Adjust > HV-TR > 1TR-TGY: Adjusts the primary transfer ATVC target current for Y-color (at high speed)
 (Level 2) COPIER > Adjust > HV-TR > 1TR-TGY2: Adjusts the primary transfer ATVC target current for Y-color (at low speed)
 (Level 2) COPIER > Adjust > HV-TR > 1TR-TGY3: Adjusts the primary transfer ATVC target current for Y-color (at medium speed)
 (Level 2) COPIER > Adjust > HV-TR > 1TR-TGM: Adjusts the primary transfer ATVC target current for M-color (at high speed)
 (Level 2) COPIER > Adjust > HV-TR > 1TR-TGM2: Adjusts the primary transfer ATVC target current for M-color (at low speed)
 (Level 2) COPIER > Adjust > HV-TR > 1TR-TGM3: Adjusts the primary transfer ATVC target current for M-color (at medium speed)

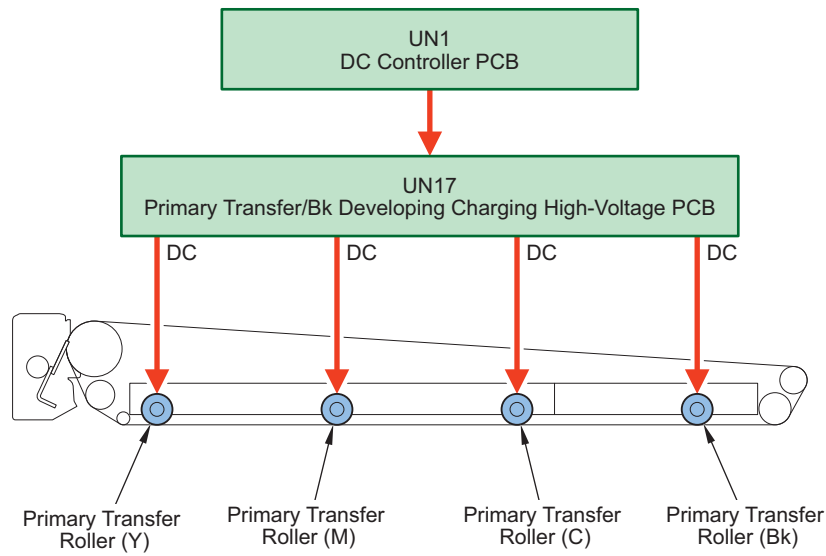
Clearing of the primary transfer ATVC control history:

(Level 2) COPIER > Function > CLEAR > 1TR-CLR

■ Primary Transfer Bias Control

In order to transfer the toner on the Photosensitive Drum onto the ITB, the voltage calculated by the primary transfer ATVC control is applied to the Primary Transfer Roller.

The primary transfer bias (DC), which has been generated by the HVT2 (UN17), is applied to the Primary Transfer Roller. The bias values are corrected by using the measurement values of the Environment Sensor 1 (UN22).

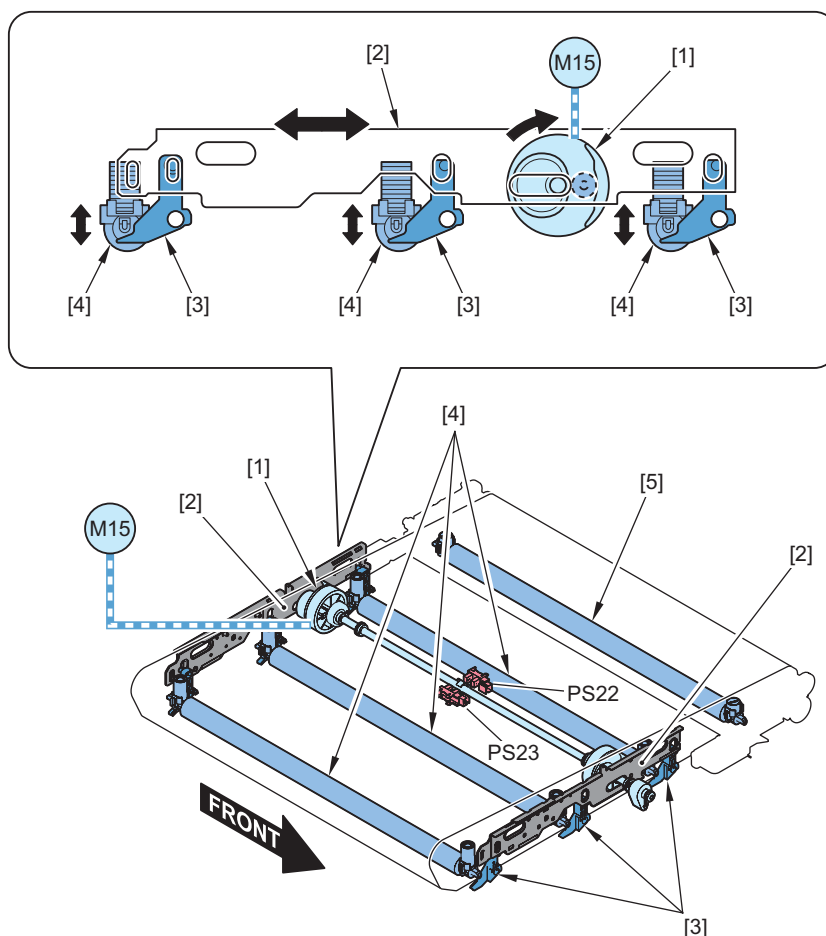


■ Primary Transfer Roller Disengagement Control

The color Primary Transfer Rollers are disengaged in the single color Bk mode in order to increase the life of image formation parts (Photosensitive Drum, ITB).

The cam mechanism provides 2 phases, which correspond to the 2 states of Bk mode and CL mode.

Furthermore, they are disengaged from all the drums by operating the ITB Pressure Release Lever. (Full disengaged)



No.	Name
[1]	Primary Transfer Disengagement Cam
[2]	Slide Plate
[3]	Link Arm
[4]	Primary Transfer Roller (Y, M, C)
[5]	Primary Transfer Roller (Bk)
M15	Primary Transfer Disengagement Motor
PS22	Primary Transfer Detachment Sensor (CL)
PS23	Primary Transfer Detachment Sensor (Bk)

Primary transfer disengagement initialization operation

Operation overview:

The Primary Transfer Disengagement Cam is rotated to change the disengagement shift mode between Bk mode and the color mode.

After initialization, the mode transitions to Bk mode of the HP state.



Control timing

Engagement: During color printing (Note that the color primary transfer is disengaged if the specified number of sheets or more in Bk are printed consecutively within a mixed single job including color printing and B&W printing.)

Disengagement: Other than the above timing

Related Error Code

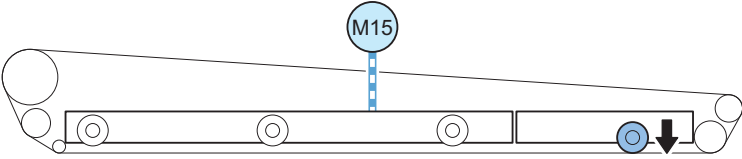
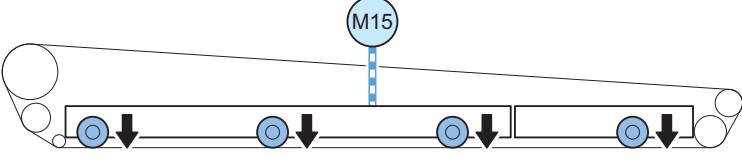
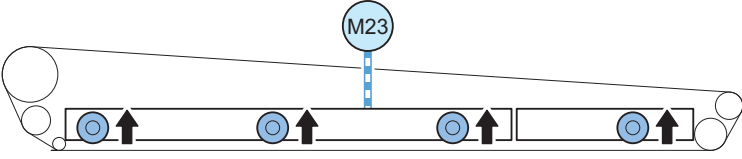
Error in Primary Transfer Engagement/Disengagement operation

E074-0001 (ITB HP time-out error)

E074-0002 (ITB HP time-out error)

E074-0003 (Primary Transfer Detachment Sensor error)

Status of each mode/timing to enter each mode

Mode	Condition	Operation status
Bk mode	Only the Bk Primary Transfer Roller is engaged Detected by the Primary Transfer Detachment Sensor (Bk) (PS23)	At standby
		While in deep sleep At B&W printing (when image formation is executed)
		
CL mode	All Primary Transfer Rollers are engaged Detected by the Primary Transfer Detachment Sensor (CL) (PS22)	At color printing (when image formation is executed)
		At adjustment operation
		
Full disengagement mode	All Primary Transfer Rollers are disengaged	When the ITB Pressure Release Lever is operated
		

Related Service Mode

Setting of the color mode in the single color Bk mode at 1/2 speed:

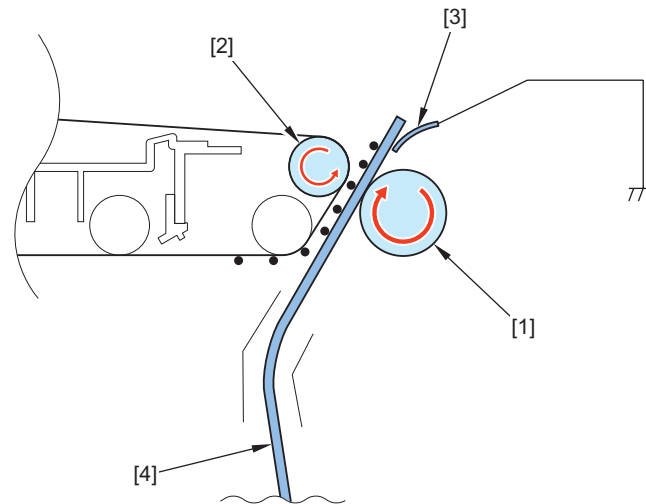
(Level 2) COPIER > Option > FNC-SW > BK-4CSW

Secondary Transfer Control

Basic Control

Secondary transfer control is control that is performed when the toner that has been transferred from the Photosensitive Drum to the ITB is then transferred to the paper.

Behavior Image



No.	Parts name	Role
1	Secondary Transfer Outer Roller	As well as attracting toner on the ITB to the paper, paper is fed.
2	Secondary Transfer Inner Roller	Paper is fed while the tension of the ITB is maintained.
3	Separation Static Eliminator	Static charge is eliminated from the paper.
4	Paper	-

Overview

The following is an overview of the basic control in the secondary transfer control.

- In secondary transfer, ATVC is performed by constant current control.
- The transfer current is controlled to match the resistance value of the Secondary Transfer Roller, the paper type, the paper feed speed, and the color mode by the constant current ATVC.
- During secondary transfer, control is performed by the voltage determined by ATVC control.

Secondary Transfer Bias Setting Value

For the voltage that is applied to the Secondary Transfer Roller, since the target current for optimal image formation varies depending on the absolute moisture content of the environment, the paper type, and the printing color mode, the secondary transfer voltage is determined by the secondary transfer ATVC control such that the optimal current value is obtained according to each of the conditions.

Furthermore, since the optimal current differs depending on the process speed, the secondary transfer voltage is determined such that the optimal transfer current is obtained depending on the process speed during image formation.

Related Service Mode

Cleaning of the Secondary Transfer Outer Roller:

COPIER > Function > CLEANING > 2TR-CLN

Execution of the toner application mode on the Secondary Transfer Roller:

COPIER > Function > CLEANING > TNR-COAT

Display of the environment during secondary transfer ATVC control:

COPIER > Display > MISC > ENV-TR

■ Secondary transfer ATVC control

In this machine, secondary transfer ATVC is performed by constant current control.

Different currents are applied at two points on the ITB, and the secondary transfer voltage is calculated based on the transfer voltage of these points.

Secondary transfer is performed at the following timings.

- At each initial rotation
- When the speed is changed
- When the color is changed

Related Service Mode

Collective adjustment of the secondary transfer ATVC paper allotted voltage:

(Level 2) COPIER > Adjust > HV-TR > 2TR-OFF

Display of the secondary transfer ATVC target current:

(Level 2) COPIER > Display > HV-STS > 2ATVC

Setting of the secondary transfer bias correction table:

COPIER > Option > FNC-SW > 2TR-TBLS

Setting of the secondary transfer current High-limit offset value:

(Level 2) COPIER > Adjust > HV-TR > 2TRI-UP

Setting of the secondary transfer current Low-limit offset value:

(Level 2) COPIER > Adjust > HV-TR > 2TRI-LOW

Adjustment of the paper trailing edge weak bias application length

(Level 2) COPIER > Adjust > HV-TR > B2TR-LNG: single color Bk

(Level 2) COPIER > Adjust > HV-TR > T2TR-LNG

Adjustment of the paper leading edge weak bias

(Level 2) COPIER > Adjust > HV-TR > T2TR-H51: Heavy 5, 1st side

(Level 2) COPIER > Adjust > HV-TR > T2TR-H52: Heavy 5, 2nd side

(Level 2) COPIER > Adjust > HV-TR > T2TR-H61: Heavy 6, 1st side

(Level 2) COPIER > Adjust > HV-TR > T2TR-H62: Heavy 6, 2nd side

(Level 2) COPIER > Adjust > HV-TR > T2TR-H71: Heavy 7, 1st side

(Level 2) COPIER > Adjust > HV-TR > T2TR-H72: Heavy 7, 2nd side

Adjustment of the paper leading/trailing edge weak bias current

(Level 2) COPIER > Adjust > HV-TR > WK-TGTC: single color Bk, coated paper

(Level 2) COPIER > Adjust > HV-TR > WK-TGTN: single color Bk, plain paper

(Level 2) COPIER > Adjust > HV-TR > WK-TGTH1: single color Bk, Heavy 1

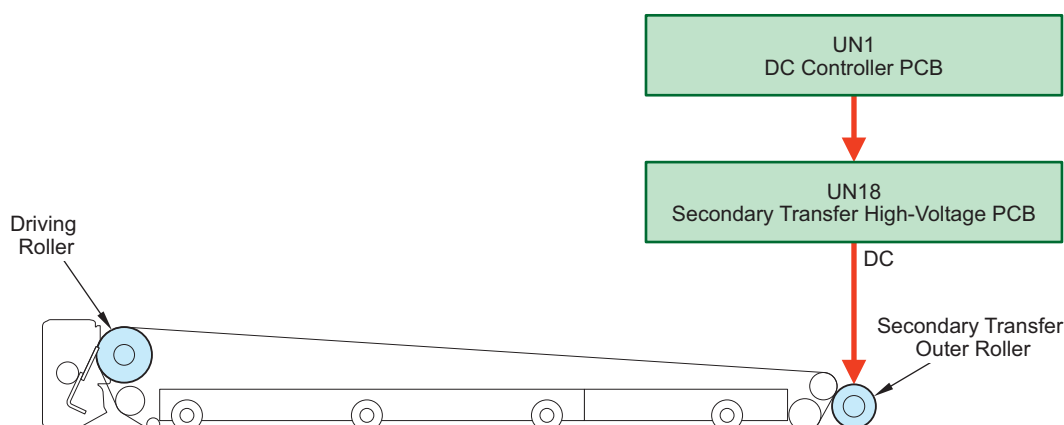
(Level 2) COPIER > Adjust > HV-TR > WK-TGTH2: single color Bk, Heavy 2

■ Secondary Transfer Bias Control

In order to transfer the toner from the ITB onto paper, the voltage calculated by the secondary transfer ATVC control is applied to the Secondary Transfer Outer Roller.

The secondary transfer bias (DC), which has been generated on the Secondary Transfer High-Voltage PCB (UN18), is applied to the Secondary Transfer Outer Roller.

The bias value is determined by the measurement value of the Environment Sensor 2 (UN50) and the paper type.



■ ITB Displacement Correction Control

This control prevents ITB damage caused by ITB displacement.

This machine improves control of the amount of movement compared to conventional models by tilting the direction of moving the back side of the Steering Roller (and Drive Roller), which direction was perpendicular to the belt surface in conventional models.

This control is performed with the following two steps: "Steering home position search" and "ITB displacement correction".

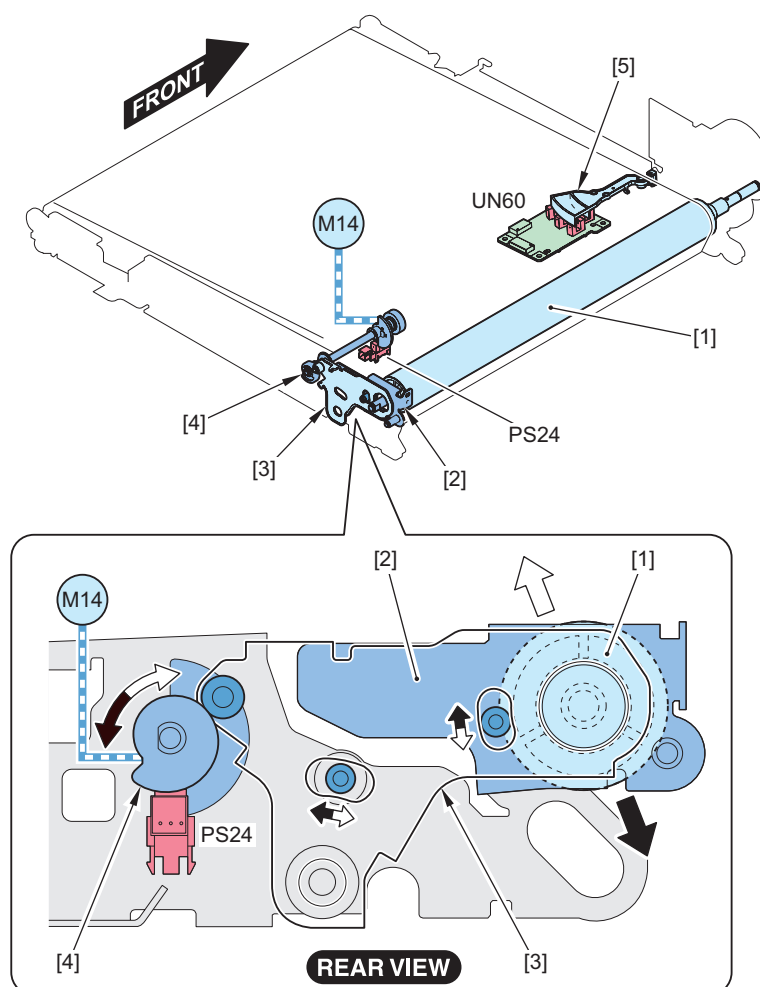
Control description

Steering home position search

1. The position of the Steering Roller is detected by the Steering HP Sensor.
2. If the Steering Roller is lower than the steering home position, the Steering Cam is rotated in the clockwise direction by the ITB Displacement Control Motor, or if it is higher, it is rotated counterclockwise. The Steering Arm Plate swings due to the rotation of the Steering Cam, and tilts the Steering Roller.
3. When the steering home position is detected by the Steering HP Sensor, the ITB Displacement Control Motor stops driving.

ITB Displacement correction

1. The ITB displacement is detected by the ITB Displacement Sensor.
2. When the ITB Drive Motor starts driving, the Steering Roller simultaneously tilts according to the amount of ITB displacement. The ITB moves towards center in the lengthwise direction due to the ITB rotation, and the displacement is corrected.
3. When the ITB Displacement Sensor detects that the ITB is reset to the center, the Steering Roller tilt is reset.
4. The ITB displacement is corrected and the center is maintained by repeating steps 1 to 3.



No.	Name	Role
[1]	Steering Roller (and Drive Roller)	The ITB is driven. The ITB displacement is corrected.
[2]	Transfer Drive Plate (Rear)	The Steering Roller is supported.
[3]	Steering Arm Plate	The Steering Roller is operated by engaging with the Steering Cam.
[4]	Steering Cam	The Steering Arm Plate is operated by rotating this.
[5]	Sensor Flag	The ITB position is detected by detecting the position of the Sensor Flag by the ITB Displacement Sensor PCB (UN60).
UN60	ITB Displacement Sensor PCB	
M14	ITB Displacement Control Motor	The rear side of the Driver Roller moves up and down in a direction tilted against the direction perpendicular to the belt surface and correction control is performed to maintain the belt in equilibrium.

No.	Name	Role
PS24	ITB Steering Sensor	The steering home position of the Drive Roller is detected. The point where the sensor position switches is the position of the home position.

Related Error Code

ITB displacement control error:

E075-0002
E075-0003
E075-0004
E075-0005
E075-0006
E075-0103

Related Service Mode

Initial adjustment of the ITB standard position:

COPIER > Function > MISC-P > ITB-INIT

Display of the ITB standard position (B&W mode):

COPIER > Display > MISC > ITB-POS

Display of the ITB standard position (color mode):

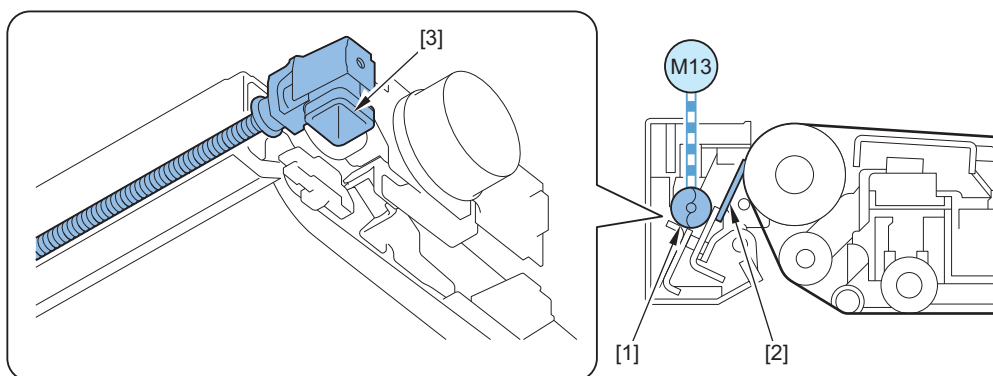
COPIER > Display > MISC > ITB-POS2

■ ITB Cleaning

After secondary transfer, the toner that remains on the ITB is removed before the next transfer.

Control description:

1. The ITB Cleaning Blade scrapes toner on the ITB.
2. The scraped toner is fed to the Waste Toner Container by the ITB Cleaning Screw.



No.	Parts name	Role
1	ITB Cleaning Screw	Residual toner collected in the ITB Cleaner Unit is fed.
2	ITB Cleaning Blade	Residual toner on the ITB is collected.
3	Waste Toner Ejection Mouth	Ejection Mouth for toner collected on the ITB
M13	ITB Motor	The ITB Cleaning Screw is driven.

Related User Mode

Adjustment/Maintenance > Maintenance > Clean Inside Main Unit

Related Service Mode

Setting of the ITB toner band formation interval:

(Level 2) COPIER > Option > CLEANING > ITBB-TMG

Setting of the number of transparency to execute ITB cleaning:

(Level 2) COPIER > Option > CLEANING > OHP-PTH

■ Secondary Transfer Outer Roller Cleaning Control

This machine cleans the Secondary Transfer Outer Roller in order to prevent soiling of the back of the paper.

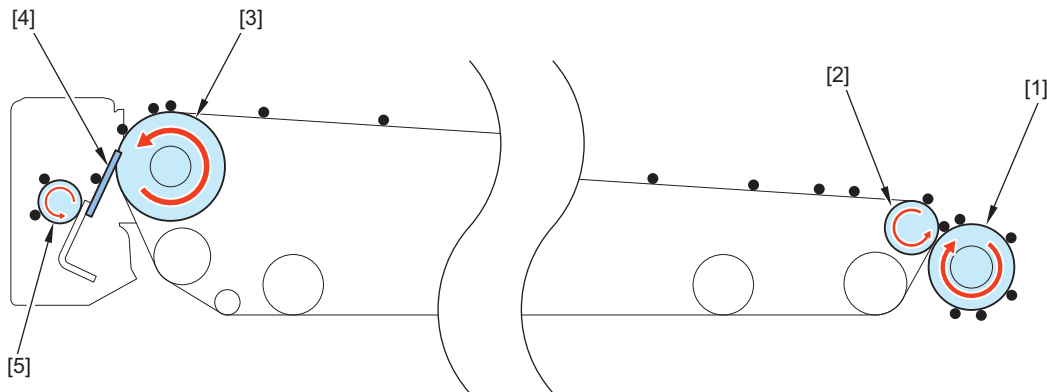
Control timing:

- At warm-up rotation
- At last rotation
- After executing the image stabilization control (generation of patch image on the ITB)
- When service mode is executed

Control description:

The secondary transfer cleaning bias, which has been generated on the Secondary Transfer High-Voltage PCB (UN18), is applied to the Secondary Transfer Outer Roller.

Residual toner on the Secondary Transfer Outer Roller is attached to the ITB, and then collected by the ITB Cleaning Unit.



N o.	Parts Name	Roll
1	Secondary Transfer Roller	As well as attracting toner on the ITB to the paper, paper is fed.
2	Secondary Transfer Inner Roller	Paper is fed while the tension of the ITB is maintained.
3	Drive Roller	The ITB is driven. The ITB displacement is corrected.
4	ITB Cleaning Blade	Residual toner on the ITB is collected.
5	ITB Cleaning Screw	Residual toner collected in the ITB Cleaner Unit is fed.

Related Service Mode

Cleaning of the Secondary Transfer Outer Roller:

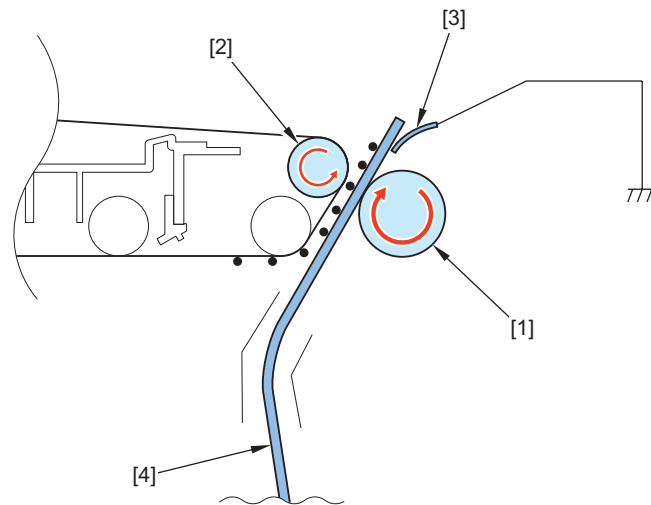
COPIER > Function > CLEANING > 2TR-CLN

■ Separation

This control separates paper from the ITB by elastic force of the paper. (Curvature separation method)

In the case of thin paper which has low elastic force, the Static Eliminator removes positive potential at the back of the paper.

This reduces electrostatic absorption force of the paper so that paper can be easily separated.

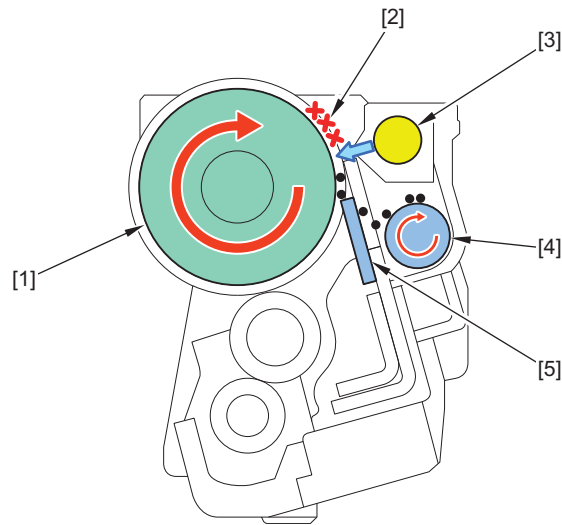


No.	Parts name
1	Secondary Transfer Outer Roller
2	Secondary Transfer Inner Roller
3	Separation Static Eliminator
4	Paper

Pre-exposure Control

In order to reduce ghosting due to residual charge, this machine performs pre-exposure to return the drum potential to 0V to prevent unevenness in the primary transfer.

Note that this machine does not control the light intensity of the pre-exposure according to environmental and other factors. (The output current can be adjusted by using service mode.)



No	Name	Roll
1	Photosensitive Drum	After a static latent image has been formed on the Photosensitive Drum, a toner image is formed with the toner from the Developing Cylinder.
2	Residual charge	Residual charge remaining on the Photosensitive Drum surface.
3	Drum Cleaning Pre-Exposure LED	Residual charge remaining on the Photosensitive Drum surface is removed.
4	Cleaning Screw	Residual toner that has been removed by the Cleaning Blade is fed.
5	Cleaning Blade	Residual toner on the Photosensitive Drum is removed.

Drum Cleaning Pre-exposure

Residual charge is removed from the Photosensitive Drum surface by emitting light from the Pre-exposure LED.

Ghost images, etc. are reduced by removing residual charge because this reduces potential differences in the charging process of the next process.

Drum cleaning

The Cleaning Blade, which is in contact with the Drum, cleans residual toner on the Photosensitive Drum.

Next, residual toner is fed to the Waste Toner Container by the rotation of the Cleaning Screw.

Related Service Mode

Adjustment of the pre-exposure LED current for each color:

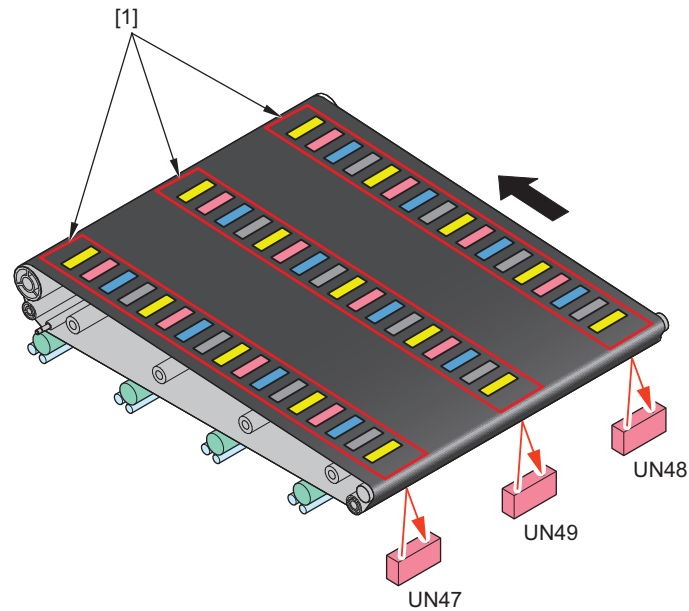
- (Level 2) COPIER > Adjust > EXP-LED > PR-EXP-Y
- (Level 2) COPIER > Adjust > EXP-LED > PR-EXP-M
- (Level 2) COPIER > Adjust > EXP-LED > PR-EXP-C
- (Level 2) COPIER > Adjust > EXP-LED > PR-EXP-K

Image Stabilization Control

Overview

Purpose: To control to prevent image failure due to change of the environment or deterioration of parts to ensure stabilized print image

Various controls are performed to form patch pattern [1] on the ITB and read the patch pattern using the Registration Sensor Unit (Rear/Front/Center) (UN47/48/49).

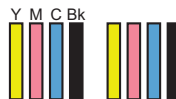


No.	Name
[1]	Patch pattern
UN47	Registration Sensor (Front)
UN48	Registration Sensor (Rear)
UN49	Registration Sensor (Center)

Patch pattern:



Patch for correction in horizontal scanning direction



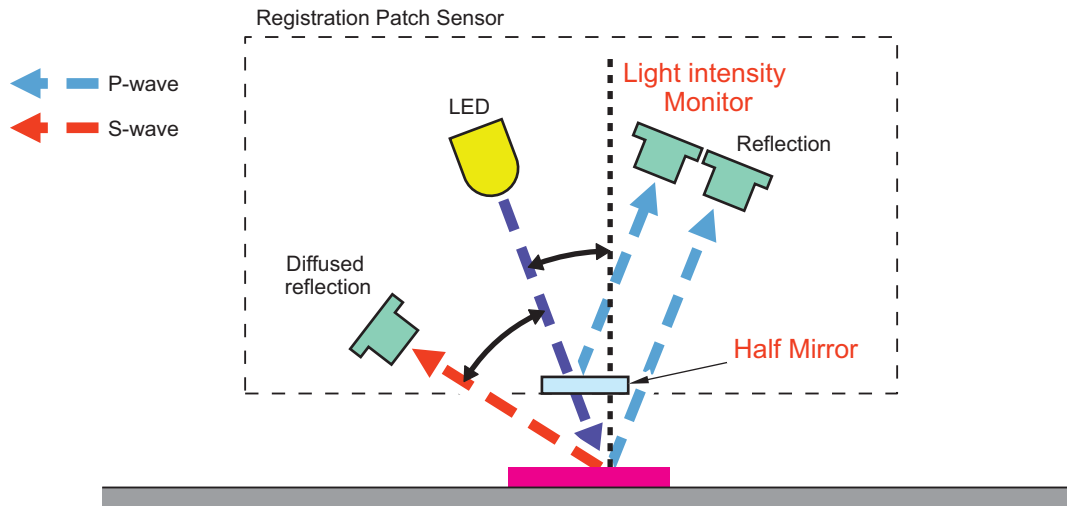
Patch for correction in vertical scanning direction

■ Registration Patch Sensor Adjustment

The correction of the Registration Patch Sensor light intensity and sampling of the ITB background are performed.

Configuration of the Registration Patch Sensor

The light produced by the LED is reflected from the patch image and detected by the light-receiving element. There are two types of waves that are P wave (regular reflection) and S wave (diffuse reflection), and the light intensity is detected by the light-receiving element.



Light intensity adjustment

The light intensity of the Patch Sensor is changed sequentially and adjusted such that the P wave output is the specified value.

Sampling of the ITB background

To prevent uneven reflection in the inner circumference of the ITB, the background of the whole circumference of the ITB is sampled by the Patch Sensor without forming patches.

The patch image that is read is compared with the sampling results of the ITB background to read the density.

Related Error Code

Patch Sensor Error:

E029-1000

E029-1001

Registration Shutter Solenoid error:

E029-6001

Related Alarm Codes

Patch Sensor error:

10-0006: Patch Sensor error 1

10-0007: Patch Sensor error 2

10-0022: Patch detection light intensity abnormal change alarm

■ D-max Control

This machine corrects changes in the D-max value due to duration and environment variation, and controls to give stable laser output over a long period of time.*1

Control description: Forms a density patch on the ITB and controls the contrast potential during image formation by reading that. Feedback is performed to the charging DC, development DC, and laser power setting values accompanying the changes in contrast potential.

Related Service Mode

Adjustment of the density target values of each color by D-max control:

(Level 2) COPIER > Adjust > DENS > DMAX-Y

*1. Deepest density

(Level 2) COPIER > Adjust > DENS > DMAX-M

(Level 2) COPIER > Adjust > DENS > DMAX-C

(Level 2) COPIER > Adjust > DENS > DMAX-K

Adjustment of the D-max target density of each color:

If the density of the solid part of the image is not suitable despite executing auto gradation adjustment, adjust the D-max control target density.

(Level 2) COPIER > OPTION > IMG-DEV > DMX-OF-Y

(Level 2) COPIER > OPTION > IMG-DEV > DMX-OF-M

(Level 2) COPIER > OPTION > IMG-DEV > DMX-OF-C

(Level 2) COPIER > OPTION > IMG-DEV > DMX-OF-K

D-max/real-time multiple tone control ON/OFF during warm-up rotation:

COPIER > Option > IMG-DEV > AUTO-DH

Setting of the automatic adjustment execution interval during last rotation:

COPIER > FNC-SW > INTROT-2

D-max PASCAL Control ON/OFF during auto gradation adjustment:

COPIER > Option > FNC-SW > DMX-DISP

Setting of Bk color density increase:

COPIER > Option > IMG-MCON > PSCL-TBL

Setting of the paper type to be used for auto gradation adjustment:

(Level 2) COPIER > Option > IMG-MCON > PASCL-TY

Setting of target speed for auto gradation adjustment (full adjustment):

COPIER > Option > FNC-SW > PSCL-MS

Setting of gradation adjustment data:

COPIER > Option > IMG-MCON > PASCAL

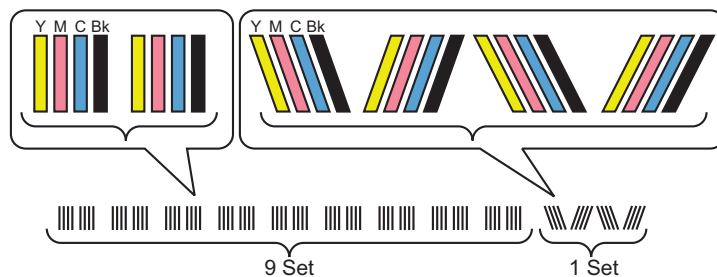
■ Color Displacement Correction Control

Read the patch formed on the ITB and correct color displacement caused by uneven exposure (skew) from the Laser Scanner Unit.

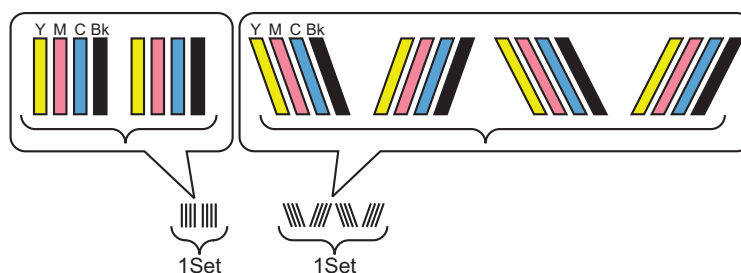
Control description:

Color displacement is corrected by forming a patch for color displacement on the ITB and reading the amount of color displacement by the Patch Sensor.

1. A patch pattern (short/long) for each color is formed on the ITB.
2. This patch pattern is read by the Registration Patch Sensor Unit (Front/Rear/Center) (UN47/UN48/UN49) to detect the amount of color displacement compared to the reference color (Y).
3. Based on the abovementioned detection result, correction is performed according to the amount of color displacement.



Long patch pattern



Short patch pattern

NOTE:

Short pattern is normally used as the patch pattern used when performing color displacement correction.

Long pattern is used only for the following cases:

- When executing Settings/Registration > Adjustment/Maintenance > Adjust Image Quality > Auto Correct Color Mismatch
- When executing the warm-up rotation sequence (Refer to “Warm-up Rotation Adjustment” on page 142.)

Correction description

	Type of control	Correction description
Correction in horizontal scanning direction	Write start correction	Write-start timing in horizontal scanning direction is changed.
	Overall magnification ratio correction	Pixels in horizontal scanning direction is increased/reduced (at the both edges of the image)
Correction in vertical scanning direction	Write start correction	Write-start timing in vertical scanning direction is changed.
	Laser bend correction	Irradiation position of the laser is changed.
	Image skew correction	Irradiation position of the laser is changed.

Related Alarm Codes

Auto registration adjustment:

34-0003

Related Service Mode

Rough adjustment of the image write start position in the horizontal scanning direction for each color:

COPIER > Adjust > IMG-REG > REG-H-K

COPIER > Adjust > IMG-REG > REG-H-C

COPIER > Adjust > IMG-REG > REG-H-M

COPIER > Adjust > IMG-REG > REG-H-Y

Fine adjustment of the image write start position in the horizontal scanning direction for each color:

COPIER > Adjust > IMG-REG > REG-HS-K

COPIER > Adjust > IMG-REG > REG-HS-C

COPIER > Adjust > IMG-REG > REG-HS-M

COPIER > Adjust > IMG-REG > REG-HS-Y

Rough adjustment of the image write start position in the vertical scanning direction for each color:

COPIER > Adjust > IMG-REG > REG-V-K

COPIER > Adjust > IMG-REG > REG-V-C

COPIER > Adjust > IMG-REG > REG-V-M

COPIER > Adjust > IMG-REG > REG-V-Y

■ Real-time Multiple Tone Correction

In order to always maintain an appropriate gradation performance, a patch of multiple tone correction is formed on the ITB and LUT correction*1 is performed.

Function Features

The features of functions compared to the conventional ARCDAT control or D-half control are as follows.

- Correction control of areas of high density is possible by using the Patch Sensor.
- Since control can be performed according to various cases, it is robust against environmental changes.
- A high productivity is achieved because processing can be performed in real time without stopping the engine.

Differences Between Full Correction and Light Correction in Real-time Multiple Tone Correction

The real-time multiple tone correction in this machine is available in two types: full correction and light correction. Full correction and light correction are the same in that a gradation patch is formed as notified by the controller and that density is notified.

The differences between full and light are as follows.

Features of full real-time multiple tone correction

- A 10-gradation patch is always formed.
- The entire lookup table is overwritten.

Features of light real-time multiple tone correction

- A patch with a smaller number of gradations is formed.
- The formed gradations are rotated.
- Part of the lookup table is overwritten.

Related Service Mode

D-max/real-time multiple tone control ON/OFF during warm-up rotation:

COPIER > Option > IMG-DEV > AUTO-DH

Setting of the error diffusion correction coefficient:

(Level 2) COPIER > Option > IMG-MCON > TMC-SLCT

Setting of the real-time multiple tone correction (full/light) feedback rate:

(Level 2) COPIER > Option > IMG-MCON > FL-FB

(Level 2) COPIER > Option > IMG-MCON > INT-FB

Setting of the c tone control correction (dither):

(Level 2) COPIER > Option > IMG-MCON > DITH-FB

Setting of the real-time multiple stone control (light) execution/stop interval:

(Level 2) COPIER > Option > IMG-DEV > INTPPR-1

(Level 2) COPIER > Option > IMG-SPD > INTPPR-2

Setting of the real-time multiple tone control patch pattern:

(Level 2) COPIER > Option > IMG-MCON > PTN-INT

*1. LUT is an abbreviation of "look up table". This table maps input values to output values. Normally, the capacity of (number of entries in) the LUT table is equal to the number of gradations. For example, if there are 256 gradations, the number of data entries in the table is 256. By mapping input values to output values with this table in advance, numeric values can be converted by looking up this table.

■ Control Timing List

Execution items for image stabilization control differ according to the environment and condition of image formation parts. Following shows the control items at each sequence.

Timing	Conditions for execution		ATR control	Real-time multiple tone control		D-max Control	Color displacement correction
				Light	Full		
At power-on	Normal environment *1			Yes			Yes
At recovery from sleep mode	When 8 hours or more have elapsed *1			Yes			Yes
When a job starts	When an environmental change is detected			Yes			Yes*2
During a job	Four-color mode	When 200 sheets have been fed or when the accumulated duty ratio has reached 3000%	Yes	Yes			Yes*2
At job completion	Four-color mode	At every 60 sheets of paper	Yes	Yes			Yes
		At every 1,000 sheets of paper			Yes	Yes	
	Bk mode	When the accumulated duty ratio has reached 2100 % or at every 140 sheets of paper	Yes				

*1: The operation differs when the following service mode setting is enabled (the setting value is 1 or 2).

COPIER > OPTION > IMG-DEV > AUTO-DH

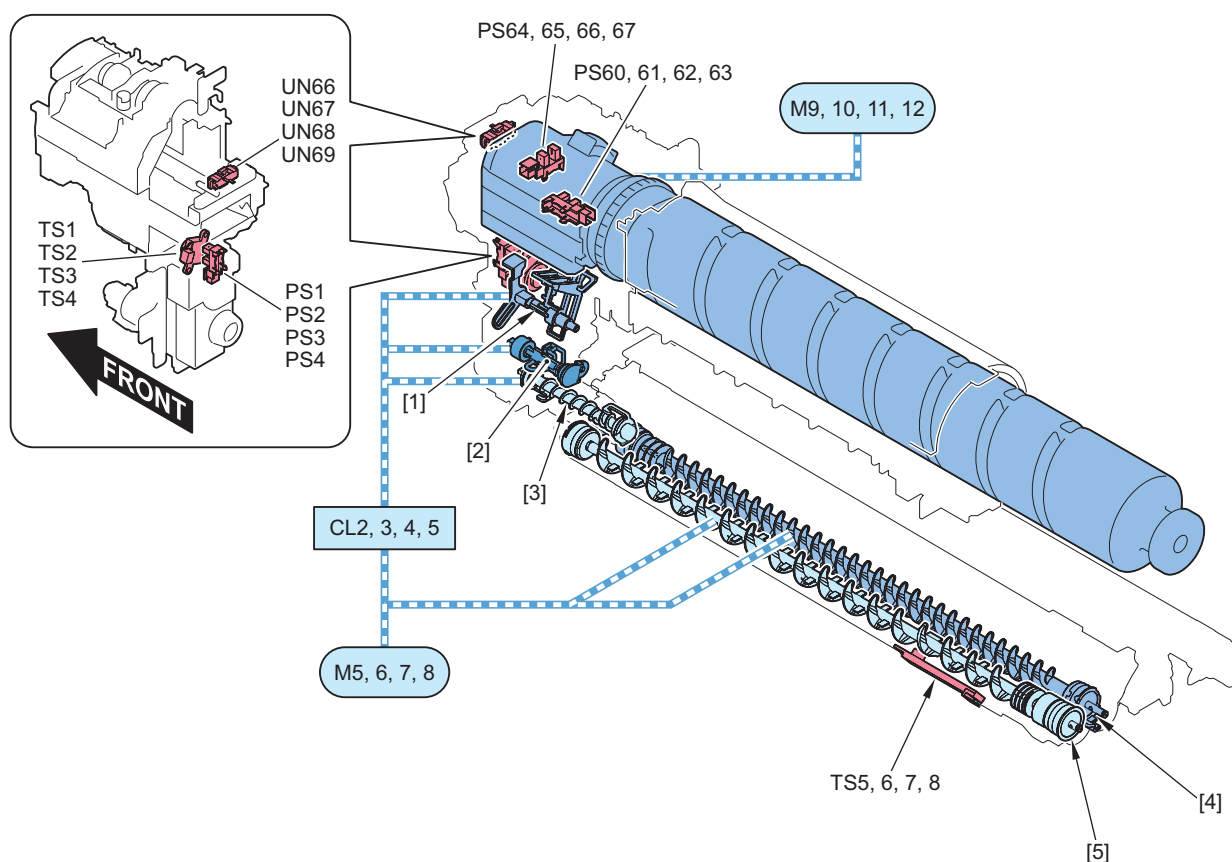
*2: Execution frequency can be changed in the following service mode (Lv.2).

COPIER > OPTION > FEED-SW > PINT-REG

Toner Supply Control

Parts / Drive Configuration

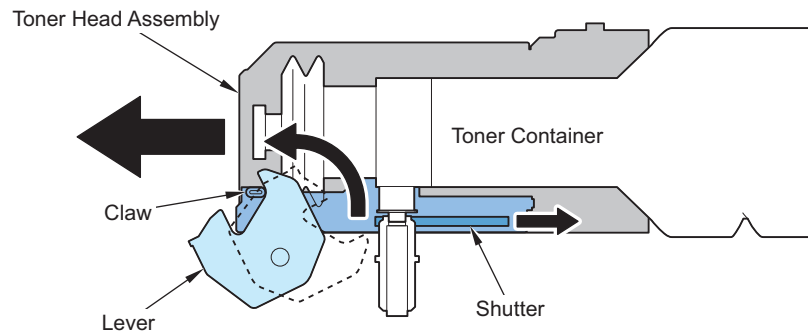
Toner is supplied from the Toner Container to the Hopper Unit. The toner level in the Toner Container is detected at the same time.



	Parts name	Role
[1], [2]	Toner Stirring Plate A, B	Toner in the Hopper Unit is stirred.
[3]	Toner Supply Screw	Toner is supplied from the Hopper Unit to the Developing Assembly.
[4], [5]	Toner Feed Screw A, B	Developer (toner and carrier) in the Developing Assembly is stirred and is supplied to the Developing Cylinder.
PS 1, 2, 3, 4	Toner Supply Level Sensor	The rotation of the Toner Supply Screw is detected and the amount of toner supplied to the Developing Assembly is counted.
PS 60, 61, 62, 63	Bottle Rotation Sensor	The rotation of the Toner Bottle is detected.
PS 64, 65, 66, 67	Bottle Position Sensor	The behavior of the Toner Bottle Replacement Door Open Link is detected.
TS 1, 2, 3, 4	Hopper Toner Level Sensor	Toner full in the hopper is detected.
TS 5, 6, 7, 8	ATR Sensor	The ratio of developer (toner + carrier) in the Developing Assembly is detected.
UN 66, 67, 68, 69	Bottle New/Old Detection Sensor	The type and state of the Toner Bottle are detected.
CL 2, 3, 4, 5	Toner Supply Clutch	The Toner Supply Screw rotation is turned on/off.
M 9, 10, 11, 12	Bottle Motor	The Toner Bottle is rotated. The Toner Bottle Replacement Door is opened.
M 5, 6, 7, 8	Developing Motor	The screw and the Developing Cylinder in the Developing Assembly are driven.

■ Opening/Closing of Toner Container Shutter

The Toner Container Shutter is opened or closed.



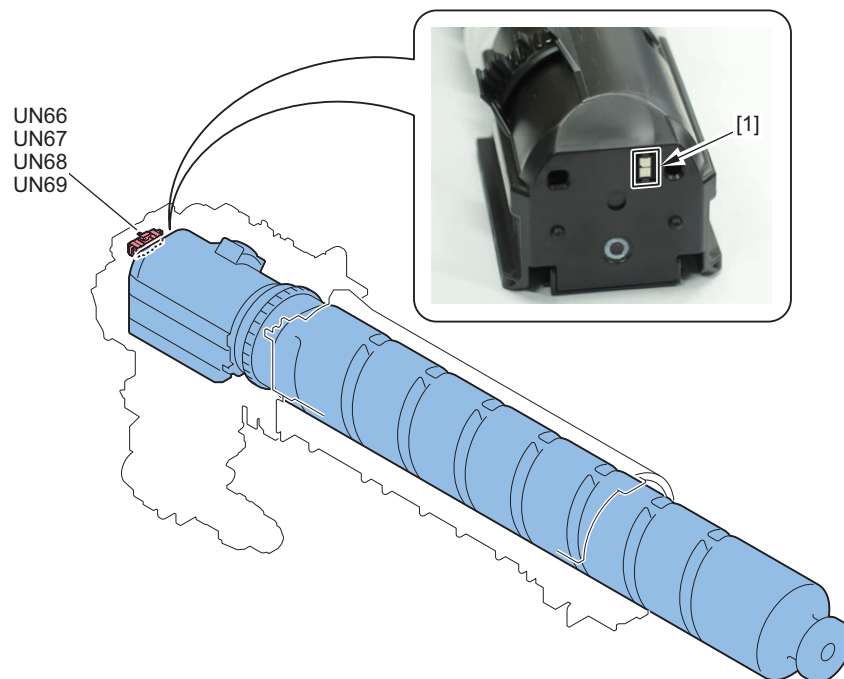
■ Bottle State Detection

Purpose: To detect the state of the Toner Container

Detection timing:

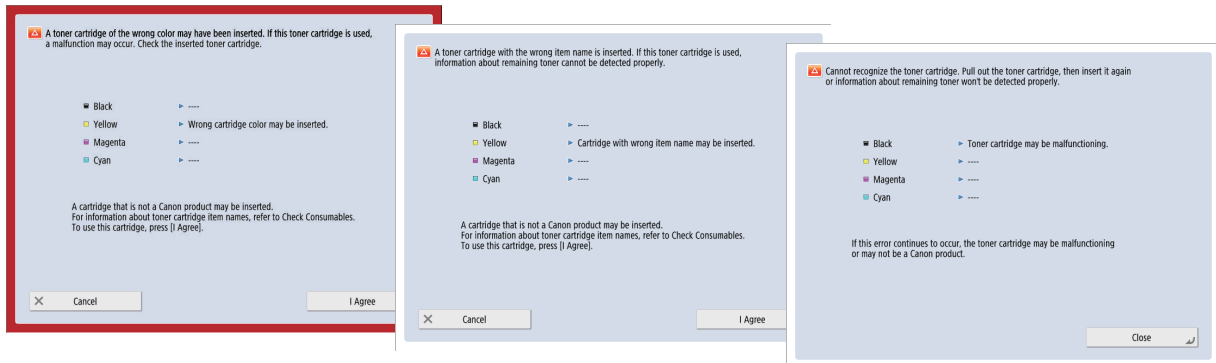
- At power-on
- When the Toner Bottle Exchange Door is closed
- At recovery from sleep mode

The Bottle New/Old Sensor (Y/M/C/Bk) (UN66/UN67/UN68/UN69) detects the state of the bottle from the Toner Container memory [1].



Screen display:

A message shown below is displayed according to the condition detected from the memory.



Message	Condition
----	The correct Toner Container is loaded.
Wrong cartridge color may be inserted.	The incorrect color Toner Container is inserted.
Cartridge with wrong item no. may be inserted.	The Toner Container with wrong item no. is inserted.
Toner cartridge may be malfunctioning.	The Toner Cartridge which may be malfunctioning is inserted.

Related Alarm Codes

Toner memory detection error (each color):

- 10-0091: Y
- 10-0092: M
- 10-0093: C
- 10-0094: Bk

Related Service Mode

Display of each color Toner Container ID:

- COPIER > Display > MISC > TNRB-IDY
- COPIER > Display > MISC > TNRB-IDM
- COPIER > Display > MISC > TNRB-IDC
- COPIER > Display > MISC > TNRB-IDK

Output of the Toner Container ID report:

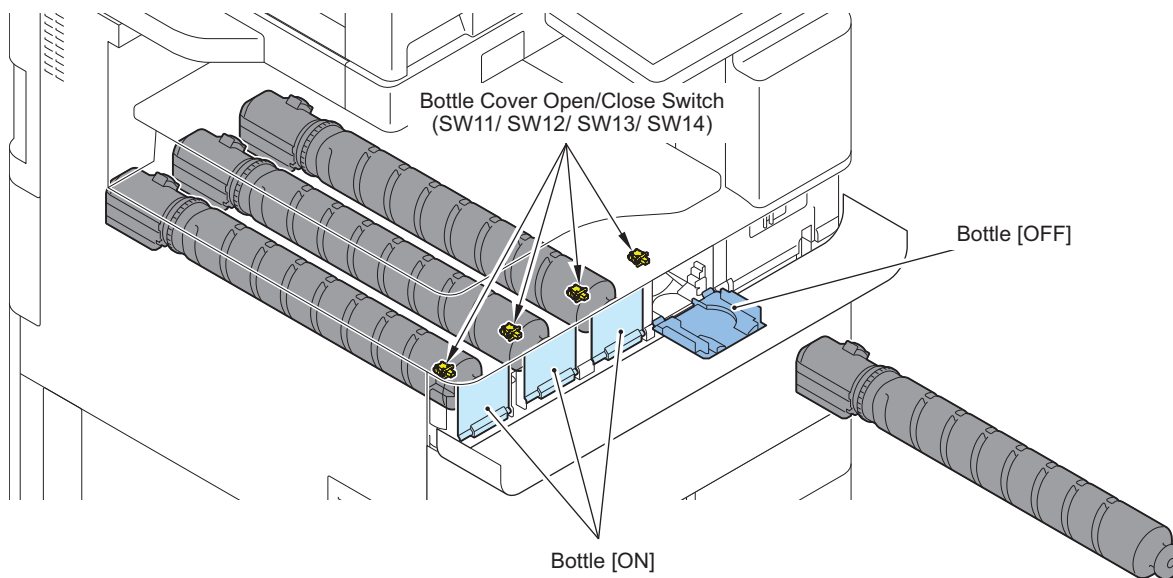
- COPIER > Function > MISC-P > TNRB-PRT

■ Toner Container Detection

This machine detects the presence/absence of the Toner Bottle by checking whether the cover is opened or closed. The bottle cover employs a mechanism where the bottle cover closes when a bottle is inserted. Therefore, the cover closed state is judged as "Bottle present" and the cover open state is judged as "Bottle absent". The bottle cover opened/closed state is detected by the Bottle Cover Open/Close Switches (Y/M/C/K) (SW11/SW12/SW13/SW14).

NOTE:

The bottle cover is not normally opened unless the Bottle Empty state occurs.



Related Error Code

Toner Bottle Inner Door open detection error:

E025-01C0
E025-02C0
E025-03C0
E025-04C0

■ ATR Control

ATR control (Auto Toner Replenishment) supplies toner to the Developing Assembly from the Hopper Unit such that the developer (toner + carrier) in the Developing Assembly has an ideal ratio.

Adjustment timing/conditions:

At job completion: For each accumulated duty of 2100%, or each 140 sheets fed
During a job: For each accumulated duty of 3000%, or each 200 sheets fed

Control description:

ATR control is performed using the following steps.

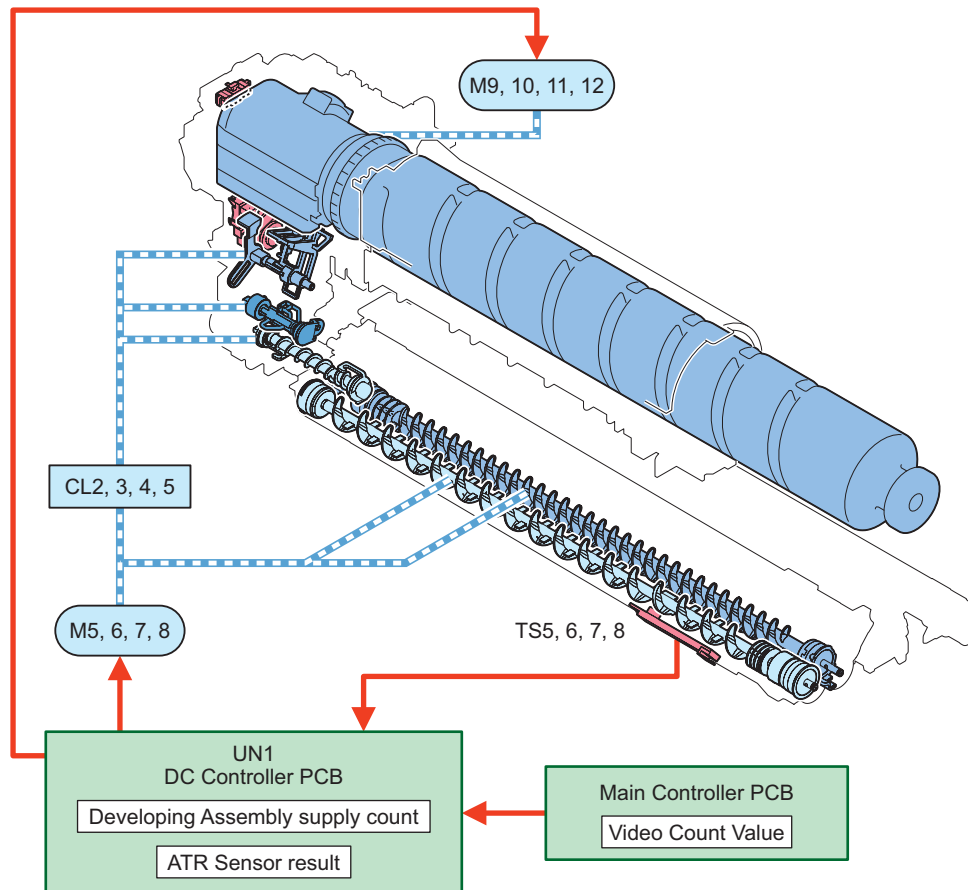
1. Based on the toner supply count, the supply amount is calculated.
2. Based on detection data from the ATR Sensor (TS5/6/7/8), the toner supply amount is corrected to keep TD ratio in the Developing Assembly constant (toner ratio in the developer).
3. A patch is formed at a specified timing, and the ATR target correction amount is determined based on the detection data.

The toner density of each color is corrected to the target value and is controlled to achieve an appropriate toner supply to the Developing Unit. The DC Controller PCB determines toner supply amount by the following 2 data:

- ATR Sensor output value
- Toner supply count value

The DC Controller PCB turns ON the Bottle Motors (Y/M/C/K) (M9/10/11/12) when it determines that toner supply is necessary.

This supplies the specified amount of toner to the Developing Unit.



Related Error Code

ATR output error:

E020-01A8 / -01A9 / -01B8 / -01B9
 E020-02A8 / -02A9 / -02B8 / -02B9
 E020-03A8 / -03A9 / -03B8 / -03B9
 E020-04A8 / -04A9 / -04B8 / -04B9
 E020-0124 / -0134

Developing Motor error:

E021-0100
 E021-0200
 E021-0300
 E021-0400

Developing Screw rotation detection error:

E021-0120
 E021-0220
 E021-0320
 E021-0420

Related Service Mode

Entry of the ATR Sensor (each color) control voltage:

COPIER > Adjust > DENS > CONT-Y
 COPIER > Adjust > DENS > CONT-M
 COPIER > Adjust > DENS > CONT-C
 COPIER > Adjust > DENS > CONT-K

Entry of the toner density target value for each color:

COPIER > Adjust > DENS > REF-Y
 COPIER > Adjust > DENS > REF-M
 COPIER > Adjust > DENS > REF-C
 COPIER > Adjust > DENS > REF-K

Setting of the ATR Sensor (each color) gain value offset:

- (Level 2) COPIER > Option > IMG-DEV > DVTGT-Y
- (Level 2) COPIER > Option > IMG-DEV > DVTGT-M
- (Level 2) COPIER > Option > IMG-DEV > DVTGT-C
- (Level 2) COPIER > Option > IMG-DEV > DVTGT-K

Adjustment of the accumulated value interval for ATR patch video count:

- (Level 2) COPIER > Option > IMG-DEV > PCHINT-V

Setting of the ATR patch formation interval:

- (Level 2) COPIER > Option > IMG-DEV > PCHINT-1

Adjustment of the ATR control each color target value:

- (Level 2) COPIER > Adjust > DENS > P-TG-Y
- (Level 2) COPIER > Adjust > DENS > P-TG-M
- (Level 2) COPIER > Adjust > DENS > P-TG-C
- (Level 2) COPIER > Adjust > DENS > P-TG-K

Display of each color TD ratio history during ATR control:

- (Level 2) COPIER > Display > DENS > DENS-Y-H
- (Level 2) COPIER > Display > DENS > DENS-M-H
- (Level 2) COPIER > Display > DENS > DENS-C-H
- (Level 2) COPIER > Display > DENS > DENS-K-H

Display of patch image density:

- (Level 2) COPIER > Display > DENS > DENS-S-Y
- (Level 2) COPIER > Display > DENS > DENS-S-M
- (Level 2) COPIER > Display > DENS > DENS-S-C
- (Level 2) COPIER > Display > DENS > DENS-S-K

Display of ATR control each color patch target density:

- (Level 2) COPIER > Display > DENS > D-Y-TRGT
- (Level 2) COPIER > Display > DENS > D-M-TRGT
- (Level 2) COPIER > Display > DENS > D-C-TRGT
- (Level 2) COPIER > Display > DENS > D-K-TRGT

Display of patch image density history:

- (Level 2) COPIER > Display > DENS > DS-S-Y-H
- (Level 2) COPIER > Display > DENS > DS-S-M-H
- (Level 2) COPIER > Display > DENS > DS-S-C-H
- (Level 2) COPIER > Display > DENS > DS-S-K-H

Stirring of each color developer:

- COPIER > Function > INSTALL > STIR-Y
- COPIER > Function > INSTALL > STIR-M
- COPIER > Function > INSTALL > STIR-C
- COPIER > Function > INSTALL > STIR-K

Display of each color developer density:

- COPIER > Display > DENS > SGNL-Y
- COPIER > Display > DENS > SGNL-M
- COPIER > Display > DENS > SGNL-C
- COPIER > Display > DENS > SGNL-K

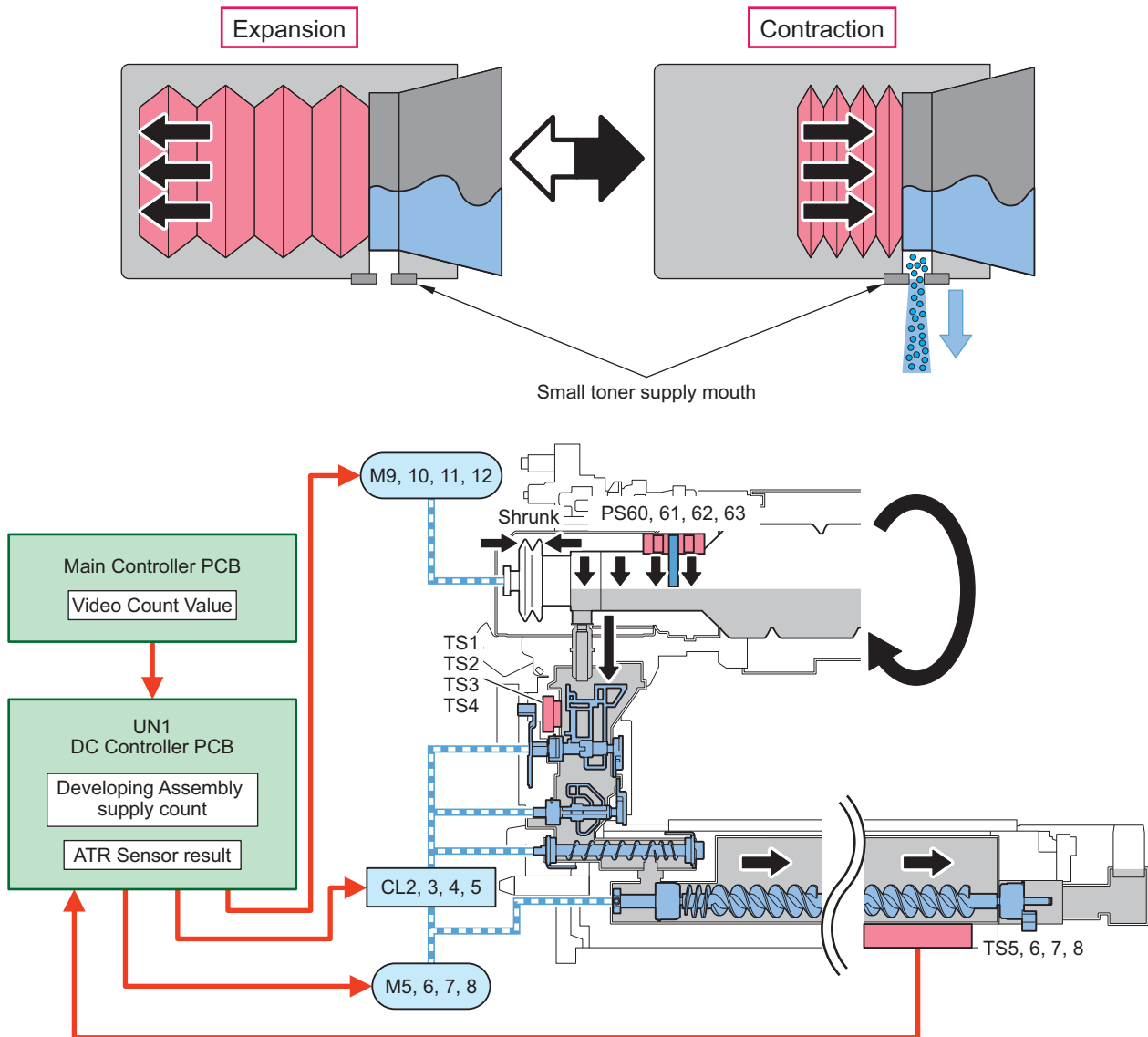
Display of each color developer density variation rate:

- COPIER > Display > DENS > DENS-Y
- COPIER > Display > DENS > DENS-M
- COPIER > Display > DENS > DENS-C
- COPIER > Display > DENS > DENS-K

■ Toner Supply Control

Toner is supplied from the Toner Container to the Hopper Unit.

This machine uses a Toner Container that has an accordion mechanism at the leading edge. The drive of the Bottle Motor rotates the Toner Bottle and operates the accordion section. At that time, air pressure is used to supply toner to the Hopper Unit.

**Control timing:**

When toner supply is determined necessary by the result of ATR control, toner is supplied.

Operation of the host machine:

In this machine, Toner Bottle Motors are arranged for each color to perform toner supply.

The Bottle Motor (Y/M/C/K) (M9/M10/M11/M12) is driven to supply the toner with the amount as determined based on the Toner Density Sensor (TS5/6/7/8) and video count output value.

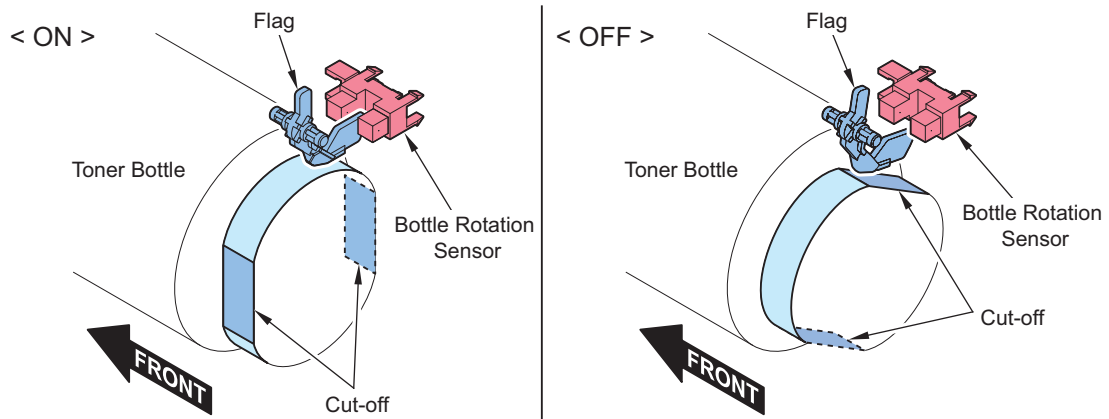
In order to ensure that the bottle rotation speed does not vary greatly as the amount of toner inside the bottle is being reduced, the bottle rotation is controlled by using the Bottle Rotation Sensor (Y/M/C/K) (PS60/61/62/63).

Control description:

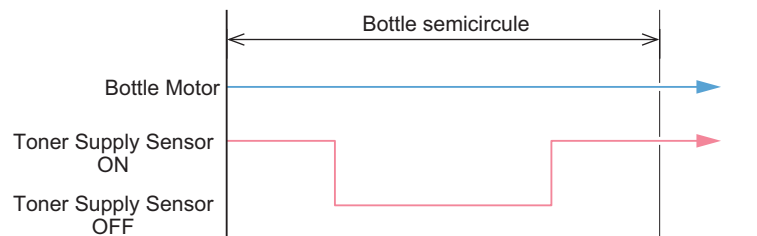
When toner is supplied, the Toner Supply Level Sensor (Y/M/C/Bk) (PS1/PS2/PS3/PS4) is started while it is turned ON.

Driving the Bottle Motor (Y/M/C/K) (M9/10/11/12) rotates the Toner Bottle, causing the flag of the Toner Supply Sensor to drop to the cut-off part of the Toner Bottle as shown in the figure below, which in turn switches OFF the sensor. When the flag then moves away from the cut-off part of the Toner Supply Sensor, the sensor is switched ON.

When the Toner Supply Sensor is OFF, toner for one time is supplied to the Developing Assembly.



Parts name	
[1]	Flag
[2]	Toner Bottle
[3]	Cut-off



Error Code

Toner Bottle Motor error:

E025-0100 : Y
 E025-0200 : M
 E025-0300 : C
 E025-0400 : Bk

Hopper Motor error:

E025-0150 / 0151
 E025-0250 / 0251
 E025-0350 / 0351
 E025-0450 / 0451

Each color Developing Assembly supply error:

E027-0100 : Y
 E027-0200 : M
 E027-0300 : C
 E027-0400 : Bk

Service Mode

Setting of the Toner Container used-up mode:

COPIER > Option > CUSTOM > USEUPTNR

Each color toner supply counter:

COPIER > Counter > MISC > T-SPLY-Y
 COPIER > Counter > MISC > T-SPLY-M
 COPIER > Counter > MISC > T-SPLY-C
 COPIER > Counter > MISC > T-SPLY-K

■ Toner Level Detection

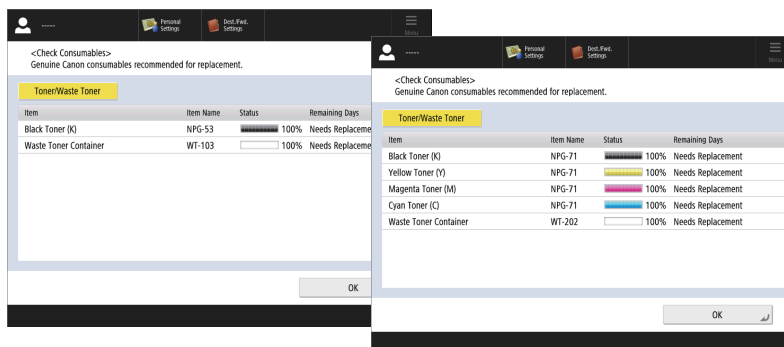
Purpose

To display the life/remaining days to notify the Toner Container replacement timing.

The life and remaining days can be seen in the following menu or service mode and whether to display/hide can be specified in the following service mode.

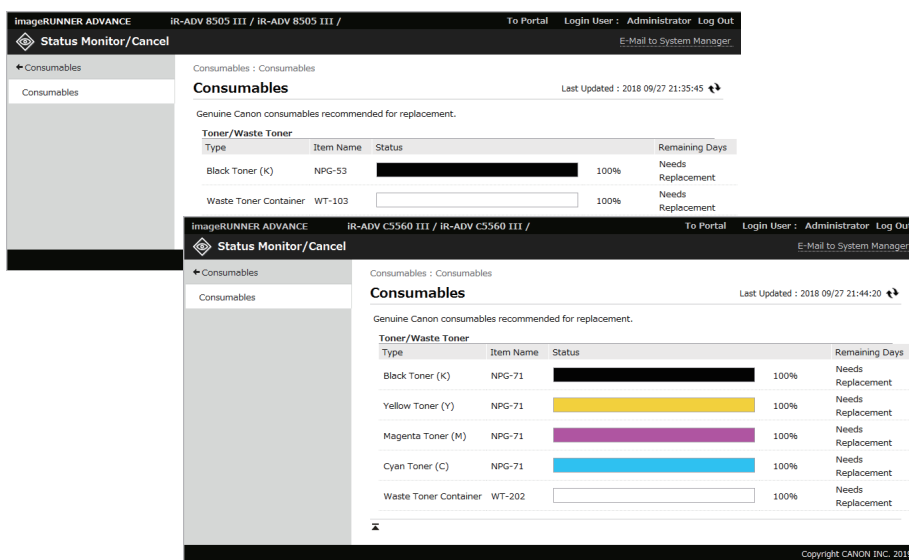
Consumption confirmation

Control Panel : Status Monitor > Consumables / Others > Check Consumables



Control Panel display example




Remote UI : Status Monitor / Cancel > Consumables



Remote UI display example

Service Mode :

- COPIER > COUNTER > LIFE > TONER-Y
- COPIER > COUNTER > LIFE > TONER-M
- COPIER > COUNTER > LIFE > TONER-C
- COPIER > COUNTER > LIFE > TONER-K

Status name	Low remaining toner in container		Toner Container Empty	Toner Empty
Toner Status	 Toner Container: Low toner remaining Hopper: 100%		 Toner Container: 0% Hopper: 100%	 Toner Container: 0% Hopper: 0%
Alarm code name	Toner prior notification alarm *1 *4	Toner low alarm *5	Toner Bottle empty alarm	-
Alarm codes	10-0017 10-0018 10-0019 10-0020	10-0001 10-0002 10-0003 10-0004	10-0401 10-0402 10-0403 10-0404	-

Status name	Low remaining toner in container		Toner Container Empty	Toner Empty
Message	-	(Yellow, Cyan, Magenta, Black) toner is low. (Replacement not yet needed.) *2	Replace the toner container (yellow, cyan, magenta, black).	Replace the toner cartridge (yellow, cyan, magenta, black).
Host machine operation after the message is displayed	Replacement not yet needed.			Host machine is stopped.
Detection timing	Depends on the service mode setting *1	Depends on the service mode setting *3	When the Hopper Toner Level Sensor (TS1 to 4) has detected an empty Toner Container.	When the total number of printed sheets reaches approximately 800 since "Bottle Empty" was detected. *6
Detected to (location)	Toner supply count		Hopper Toner Level Sensor (TS1 to 4)	Toner supply count
Alarm log storage location	ALARM-2	-	ALARM-2	-
Whether the Toner Container can be removed	Not Available *7		Available	

*1 : The detection timing can be changed in the following service modes (setting of the Toner advance notice alarm notification timing). The alarm can also be set to be disabled.

- COPIER > OPTION > PM-DLV-D > TONER-Y
- COPIER > OPTION > PM-DLV-D > TONER-M
- COPIER > OPTION > PM-DLV-D > TONER-C
- COPIER > OPTION > PM-DLV-D > TONER-K

*2 : Whether to display this message can be changed in the following service mode (setting of the ON/OFF of toner preparation message).

- COPIER > OPTION > PM-PRE-M > TONER-Y
- COPIER > OPTION > PM-PRE-M > TONER-M
- COPIER > OPTION > PM-PRE-M > TONER-C
- COPIER > OPTION > PM-PRE-M > TONER-K

*3 : The detection timing can be changed in the following service modes (setting of the days left before the Toner Preparation Warning).

- COPIER > OPTION > PM-MSG-D > TONER-Y
- COPIER > OPTION > PM-MSG-D > TONER-M
- COPIER > OPTION > PM-MSG-D > TONER-C
- COPIER > OPTION > PM-MSG-D > TONER-K

*4 : After an advance notice alarm is sent, the next advance notice alarm will not be sent until the replacement completion alarm is sent.

*5 : The message is generated by UGW and displayed on the UGW portal screen. This is not displayed on this machine.

*6 : The exact number of printed sheets differs depending on the usage environment/usage conditions.

*7 : It is possible to replace forcibly by executing the following Settings/Registration.

- Settings/Registration > Adjustment/Maintenance > Maintenance > Replace Specified Toner

Whether to display or hide the "Replace Specified Toner" screen can be changed in the following service mode.

- COPIER > OPTION > DSPLY-SW> T-CRG-SW

Alarm codes

Toner (each color) advance notice alarm

- 10-0017 : (Y)
- 10-0018 : (M)
- 10-0019 : (C)
- 10-0020 : (Bk)

Toner Bottle empty alarm (each color)

- 10-0401 : (Y)
- 10-0402 : (M)
- 10-0403 : (C)
- 10-0404 : (K)

Toner low (each color) alarm (UGW-generated alarm)

- 10-0001: (Bk)
- 10-0002: (C)
- 10-0003: (M)

- 10-0004: (Y)

■ Detection of Toner Replacement Completion

Control description

	Toner replacement complete
Detection timing	When the proper replacement of Toner Container is detected
Detected to location	Bottle New/Old Sensor
Alert/message displayed	None
Alarm Codes *	10-0100-007x: New Toner Container replacement detection (each color) 10-0100-008x: Toner Container premature replacement detection (each color) 10-0100-018x: Unidentified Toner Container replacement detection (each color)

NOTE:

With B&W machines, screen display/alarm code is displayed only for black.

*: A toner replacement completion alarm is not generated under the following conditions:

- The DC Controller PCB was replaced, and then a new Toner Container is installed before the power is turned ON.
- The DC Controller PCB was replaced, and then a new Toner Container is installed after the power was turned ON with the Toner Container removed or the Front Door open.

Related Service Mode

- Display/hide of Toner Container counter
 - (Level.2) COPIER > OPTION > USER > TNRB-SW

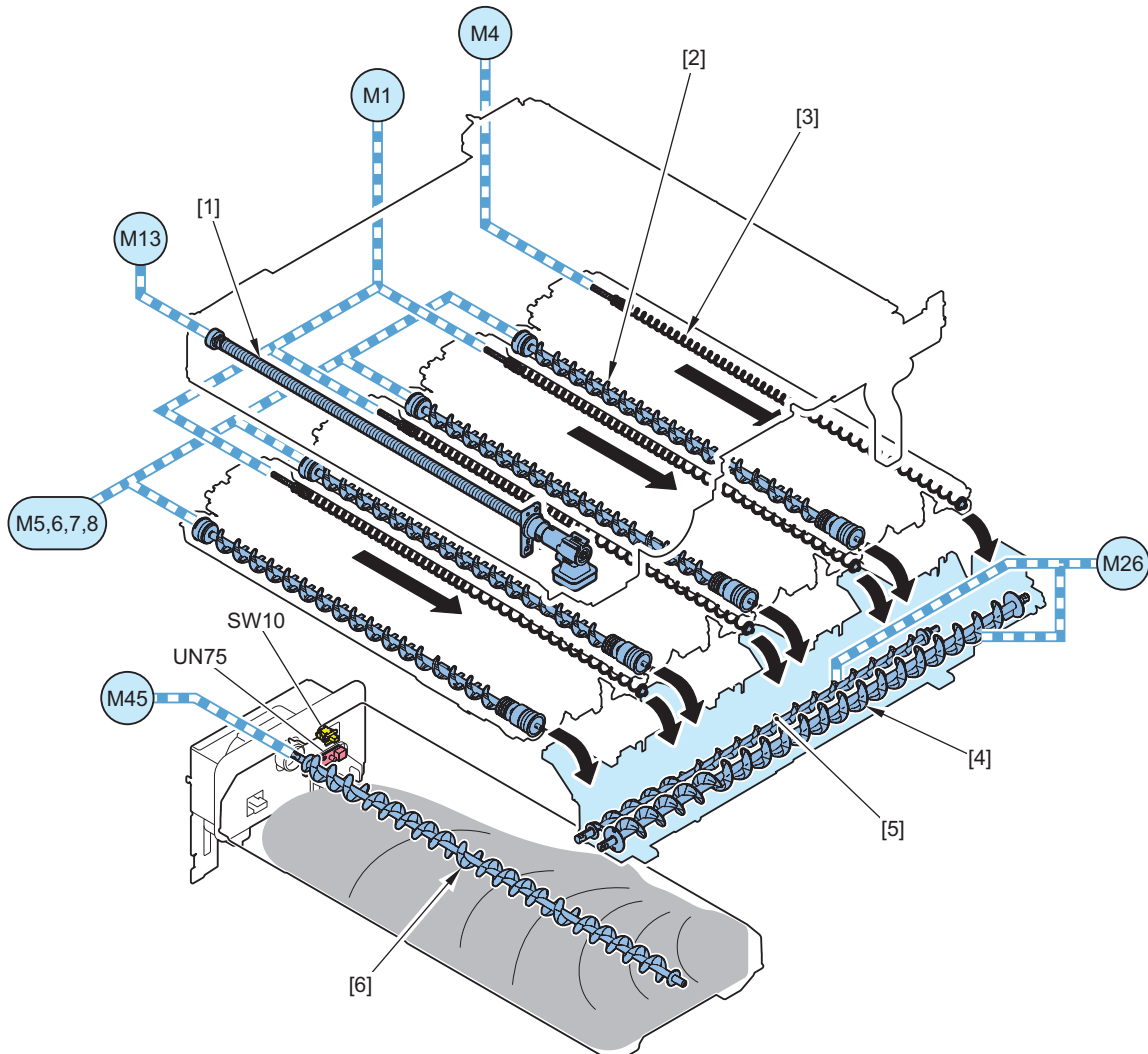
Alarm Codes

- Toner Container replacement notice alarm
 - New Toner Container replacement detection
 - 10-0100-0071 (Bk)
 - 10-0100-0072 (Y)
 - 10-0100-0073 (M)
 - 10-0100-0074 (C)
 - Toner Container premature replacement detection
 - 10-0100-0081 (Bk)
 - 10-0100-0082 (Y)
 - 10-0100-0083 (M)
 - 10-0100-0084 (C)
 - Unidentified Toner Container replacement detection
 - 10-0100-0181 (Bk)
 - 10-0100-0182 (Y)
 - 10-0100-0183 (M)
 - 10-0100-0184 (C)

Waste Toner Feed Control

Parts / Drive Configuration

Waste toner in the Drum Unit and ITB Cleaning Unit is fed to the Waste Toner Container.



Parts name		Role
[1]	ITB Cleaning Screw	Collected toner is fed to the ITB Cleaning Unit.
[2]	Drum Unit Cleaning Screw	Residual toner in the Drum Unit is fed.
[3] [4]	Waste Toner Feed Screw	Toner collected from the ITB Unit/Drum Unit is fed to the Waste Toner Container.
[5]	Waste Toner Screw	The waste toner inside the Waste Toner Container is made uniformly even.
M13	ITB Motor	The ITB Cleaning Screw is driven.
M1	Drum Motor (YMC)	To drive the Y/M/C Drum Unit Cleaning Screw.
M4	Drum Motor (Bk)	To drive the Bk Drum Unit Cleaning Screw.
M26	Waste Toner Feed Motor	To drive the Waste Toner Feed Screw.
M45	Recycle Toner Stirring Motor	To make the waste toner inside the Waste Toner Container uniformly even.
UN75	Waste Toner Sensor PCB	Waste Toner Container full level detection
SW10	Waste Toner Container Detection Switch	Waste Toner Container detection

Related Error Code

Waste Toner Stirring/Feed Motor error:

E013-0001

E013-0002

Drum Motor error:

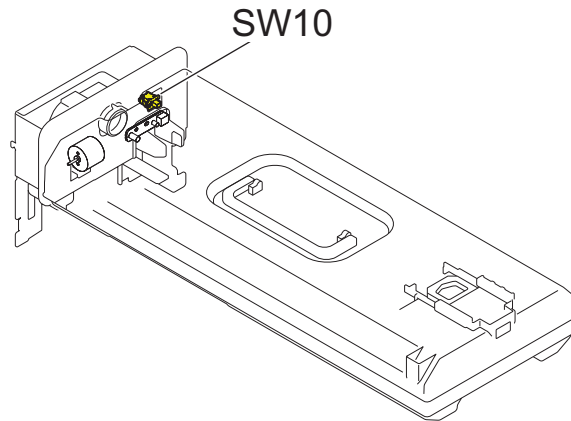
- E012-0101
- E012-0401

ITB Motor error:

- E012-1000
- E012-1001

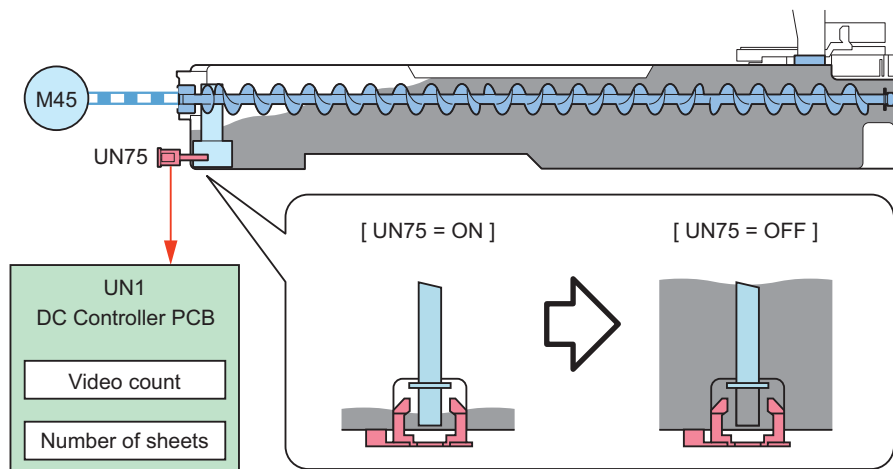
■ Waste Toner Container Detection

The Waste Toner Container Detection Switch (SW10) is used to detect the presence/absence of the Waste Toner Container.



■ Waste Toner Container Full Level Detection

To detect the toner level accumulated in the Waste Toner Container.



Detection items	Waste Toner Container advance notice alarm*1	Waste Toner Container preparation warning*2	Waste Toner Container full level	Waste Toner Container replacement completion alarm
Detection timing	When the following two conditions were satisfied: <ul style="list-style-type: none"> • When the Waste Toner Sensor PCB (UN75) detected Waste Toner. • When the number of remaining days has reached the threshold value specified in service mode*1 *3 *4 	When the toner is supplied to the Developing Unit with the designated number of times after the prior delivery alarm/waste toner container preparation warning is given. (Number of pages equivalent: Approximately 4700 pages*5)	When the Waste Toner Sensor PCB (UN75) detected the absence of Waste Toner while "preparation warning" or "full" is detected. *6	
Detected to (location)	Waste Toner Sensor PCB (UN75) + Toner supply count	Detected based on the number of supply times	Waste Toner Sensor PCB (UN75)	

Detection items	Waste Toner Container advance notice alarm*1	Waste Toner Container preparation warning*2	Waste Toner Container full level	Waste Toner Container replacement completion alarm
Message (host machine operation)	-	The waste toner is nearly full. (Replacement not yet needed.)	Replace the waste toner container.	-
Host machine operation after the message is displayed	Replacement not yet needed.		Host machine is stopped.	Replacement not yet needed.
Alarm code	11-0010		11-0001	11-0100
Alarm log storage location	ALARM-2		ALARM-2	ALARM-2

*1: The number of remaining days before the advance notice alarm is notified can be set in the following service mode (Waste Toner Container advance notice alarm notice timing). (-1 to 365, -1: The alarm not issued, the default value differs depending on the country.)

COPIER > OPTION > PM-DLV-D > WST-TNR

*2: Whether to display/hide the Toner preparation warning can be specified in the following service mode (whether to display/ hide the Toner preparation warning). (0: Hide; 1: Display, the default value differs depending on the country.)

COPIER > OPTION > PM-PRE-M > WST-TNR

*3: The number of remaining days to display the Toner Preparation Warning can be set by the following service mode (setting the number of remaining days before Toner preparation warning). (0 to 365 days, the default value depends on the country.)

COPIER > OPTION > PM-MSG-D > WST-TNR

*4: The life value and the remaining days of Waste Toner Container can be viewed in the following service mode (life value and remaining days of Waste Toner Container).

COPIER > COUNTER > LIFE > WST-TNR

*5: The exact number of printed sheets differs depending on the usage environment/usage conditions.

*6: The parts counter is automatically cleared; however, it is not cleared at replacement while "preparation warning" or "full" is not detected or at replacement when the power is OFF. In this case, the parts counter can be manually cleared by executing the following service mode.

COPIER > COUNTER > DRBL-1 > WST-TNR

Error Code

Waste Toner full detection error:

- E013-0001
- E013-0003

Alarm code

- 11-0001: Waste Toner alarm
- 11-0010: Waste Toner Container advance notice alarm
- 11-0100: Waste Toner Container replacement completion alarm

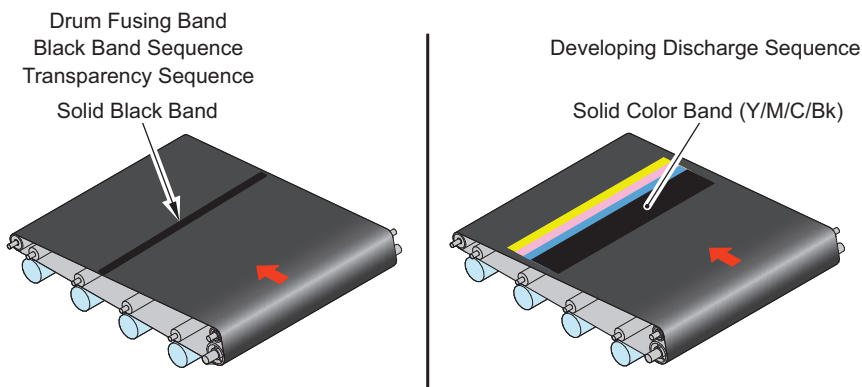
Service Mode

- Display/Hide the Waste Toner Container preparation warning
COPIER > OPTION > PM-PRE-M > WST-TNR
- Set the number of remaining days to display the Waste Toner Container preparation warning
COPIER > OPTION > PM-MSG-D > WST-TNR
- Setting Waste Toner Container advance notice alarm notice timing
COPIER > OPTION > PM-DLV-D > WST-TNR

Other Controls

■ Special Controls

This machine has the following sequences as the special sequence.



• Black Band Sequence

In order to prevent flipping of the blade of the ITB Cleaning Blade, a 10 mm toner band (Bk) is supplied to the blade in the vertical scanning direction to reduce the friction force in areas of sliding.

Control timing: Perform by changing the frequency according to the ITB duration and moisture content (environment data).

Control timing	Details
During a job	Each 200 sheets
	Until reaching 50,000 sheets after replacement of the ITB, every 60 sheets in a high temperature and high humidity environment
At job completion	Each 140 sheets
	Until reaching 50,000 sheets after replacement of the ITB, every 60 sheets in a high temperature and high humidity environment

Related Service Mode

Changing of the black band sequence frequency:

COPIER > Option > CLEANING > ITBB-TMG

• Transparency Black Band Sequence

Transparency is coated in surfactant, and if a large amount of transparencies passes through the printer, the surfactant adheres to the ITB. In order to prevent this, a 10 mm-wide Bk patch is formed on the ITB to remove the surfactant together with toner.

Control timing

During a job: Each 10 sheets of transparency

At job completion: Each 5 sheets of transparency

Related Service Mode

Setting of the number of transparency to execute ITB cleaning

(Level 2) COPIER > Option > CLEANING > OHP-PTH

• Toner Ejection Sequence for Low Image Ratio

If printing is performed successively with a low image ratio, the developing performance may be degraded. To prevent this error, an adequate amount of toner based on the average image ratio for each color (width = A4, length = a solid color band according to the deteriorated toner amount) is transferred to the ITB.

Conditions for execution

When the average image ratio per sheet reaches 1% or less

Control timing

During last rotation after the job is completed, or 60 seconds after the copy job starts

Related Service Mode

Setting of the image ratio for executing the color toner ejection:

(Level 2) COPIER > Option > IMG-DEV > DELV-THY

(Level 2) COPIER > Option > IMG-DEV > DELV-THM

(Level 2) COPIER > Option > IMG-DEV > DELV-THC

(Level 2) COPIER > Option > IMG-DEV > DELV-THK

● Drum Fusion Band Sequence

In order to prevent the toner, etc. from fusing onto the drum, a toner band of 10 mm is formed on the ITB depending on the environment data (temperature/humidity) and usage conditions.

● Toner Band Control Sequence When Drum Stopped

If a new ITB is stopped for a long period of time while it is in contact with the Photosensitive Drum, it adversely affects the drum surface and can cause white lines on the image.

In order to prevent this symptom and protect the surface of the drum, a toner band is formed when the ITB is stopped during a period from the ITB's first use until 300,000 sheets are printed.

■ Warm-up Rotation Adjustment

Warm-up rotation is an operation to check the status of sensors, motors, and others, when the power is turned on, at recovery from sleep mode, or at jam removal.

According to the conditions, warm-up rotation is performed.

Note that warm-up rotation adjustment is not performed when the state is "no Waste Toner Container", "waste toner full", or "no toner".

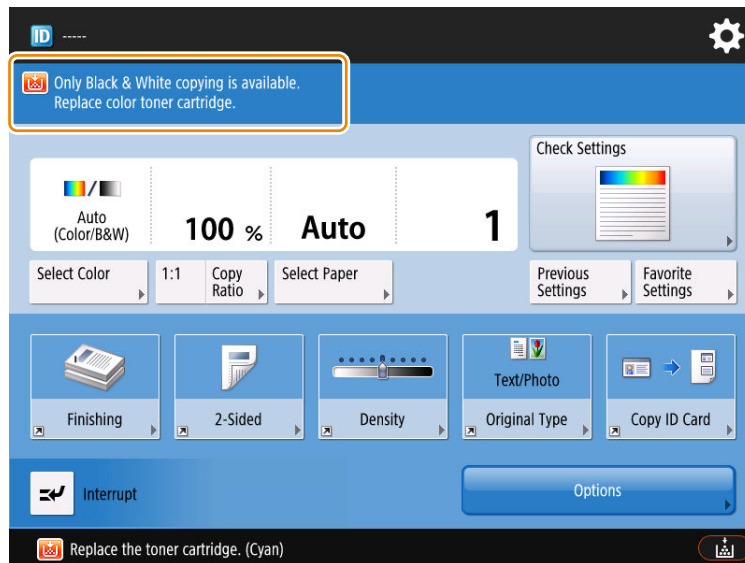
Related Service Mode

Setting of additional execution at warm-up rotation at the first power-on:

(Level 2) COPIER > Option > CLEANING > DRMR-MNG

■ Behavior when color printing is limited or there is no color toner

If an error occurs caused by the Y/M/C Developing Assembly or a Y/M/C toner runs out, this machine ensures that black and white printing and copying are allowed without stopping the entire printing function.



Applicable Error Codes

- E012-0101
- E020-0XA8 / 0XA9 / 0XB8 / 0XB9 (X : Y = 1, M = 2, C = 3)
- E021-XXXX (ALL)
- E025-XXXX (ALL)
- E027-XXXX (ALL)

NOTE:

When color printing is limited or there is no color toner, the following Settings/Registration menu cannot be executed:

Settings/Registration > Adjustment/Maintenance > Adjust Image Quality > Auto Adjust Gradation

Settings/Registration > Adjustment/Maintenance > Adjust Image Quality > Auto Correct Color Tone Settings > Auto Correct Color Tone

Settings/Registration > Adjustment/Maintenance > Adjust Image Quality > Correct Shading

Settings/Registration > Adjustment/Maintenance > Adjust Image Quality > Auto Correct Color Mismatch

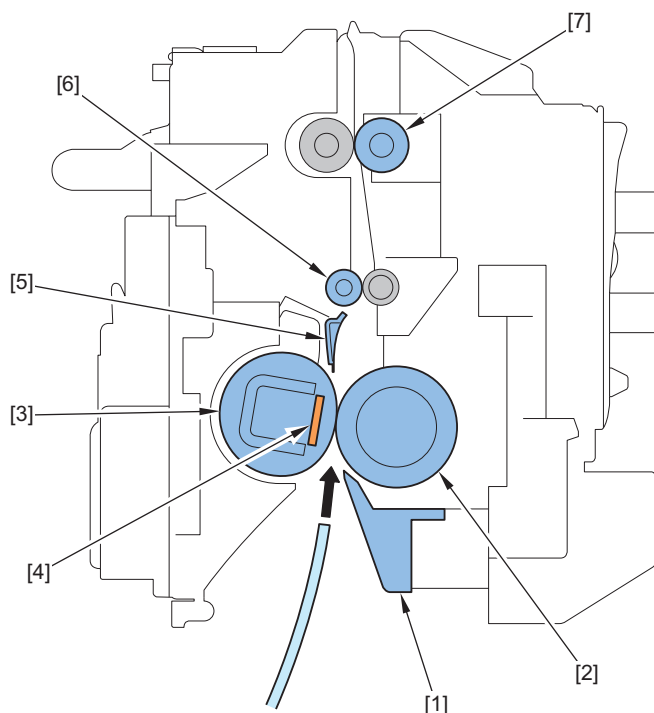
Settings/Registration > Adjustment/Maintenance > Maintenance > Clean Inside Main Unit

Fixing System

Overview

■ Features

This machine uses an on-demand fixing method.



No.	Name	No.	Name
[1]	Fixing Inlet Guide	[5]	Separation Guide
[2]	Pressure Roller	[6]	Inner Delivery Roller
[3]	Fixing Film	[7]	Fixing Delivery Roller
[4]	Fixing Heater		

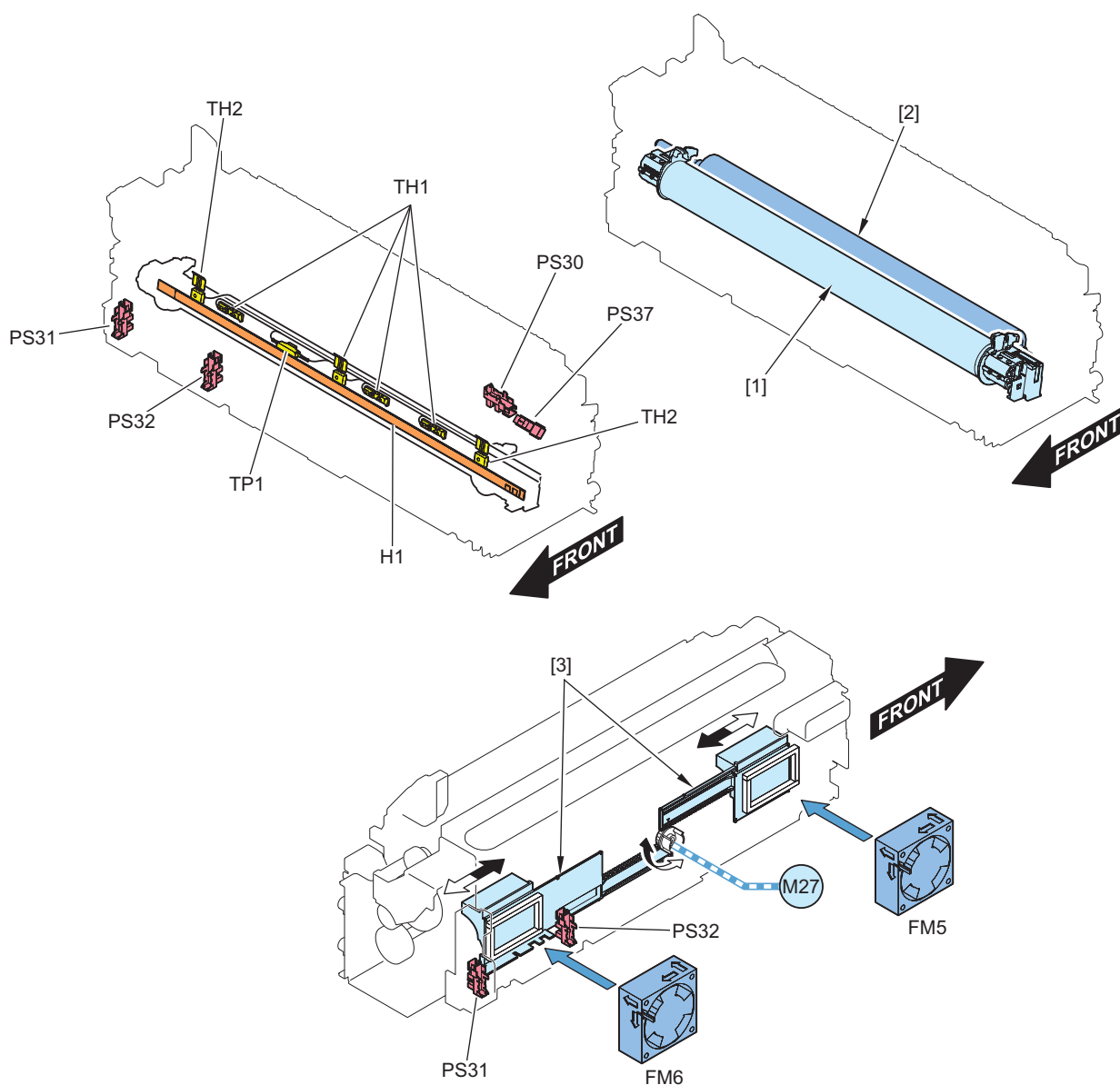
1. Energy saving
Power consumption during standby is reduced by quick startup in low heat capacity
2. Higher speed
60 ppm in both B&W and color is enabled by using new toner and highly heat conductive elastic film

■ Specifications

Item	Function/Method
Fixing method	On-demand fixing
Fixing speed	<p>60 ppm machine</p> <ul style="list-style-type: none"> • 264 mm/s: Paper weight (52 to 105 g/m²) • 222 mm/s: Paper weight (106 to 128 g/m²) • 132 mm/s: Paper weight (129 to 300 g/m²), coated paper <p>50/40 ppm machine</p> <ul style="list-style-type: none"> • 222 mm/s: Paper weight (52 to 128 g/m²) • 132 mm/s: Paper weight (129 to 300 g/m²), coated paper <p>35 ppm machine</p> <ul style="list-style-type: none"> • 145 mm/s: Paper weight (52 to 128 g/m²) • 132 mm/s: Paper weight (129 to 300 g/m²), coated paper

Item	Function/Method
Heater	Ceramic Heater The Main Heater (heat distribution: high at center) and the Sub Heater (heat distribution: high at edges) are individually driven. The heater activation rate changes according to the paper size. Purpose: To control temperature increase at the edge
Control temperature	Target temperature at printing (Plain Paper 1 (64 to 75 g/m ²)) 60 ppm machine: 162 to 191 deg C 50/40 ppm machine: 157 to 183 deg C 35 ppm machine: 145 to 166 deg C
Detection of temperature	By Main Thermistor and Sub Thermistor
Protection function	Main Thermistor, Sub Thermistor When an error is detected, power supply to the Fixing Heater is shut down. Thermoswitch Rated operating temperature: 250 +/- 7 deg C
New part detection	Yes (Fixing Film Unit only)
Life detection	None

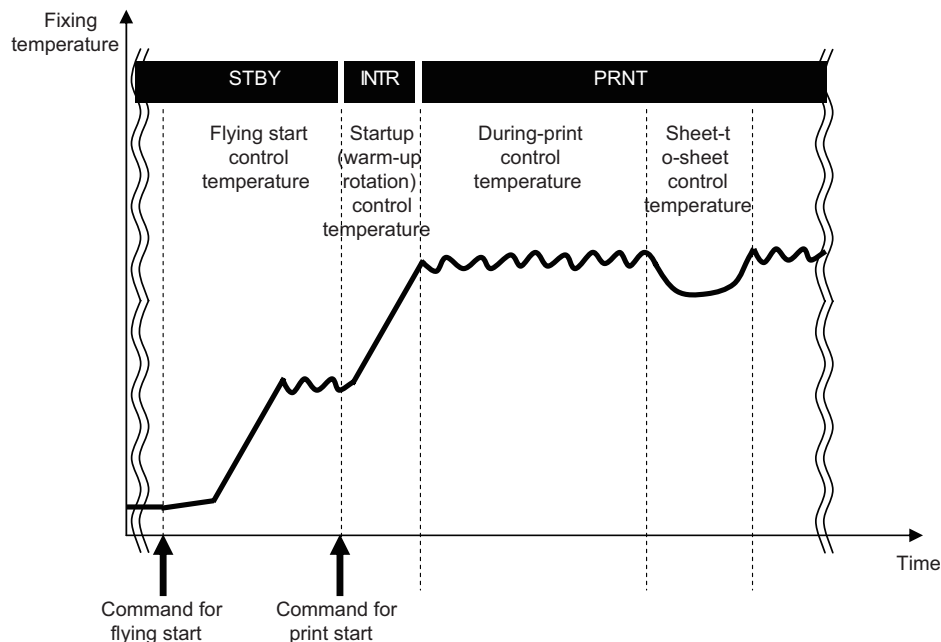
■ Parts Configuration



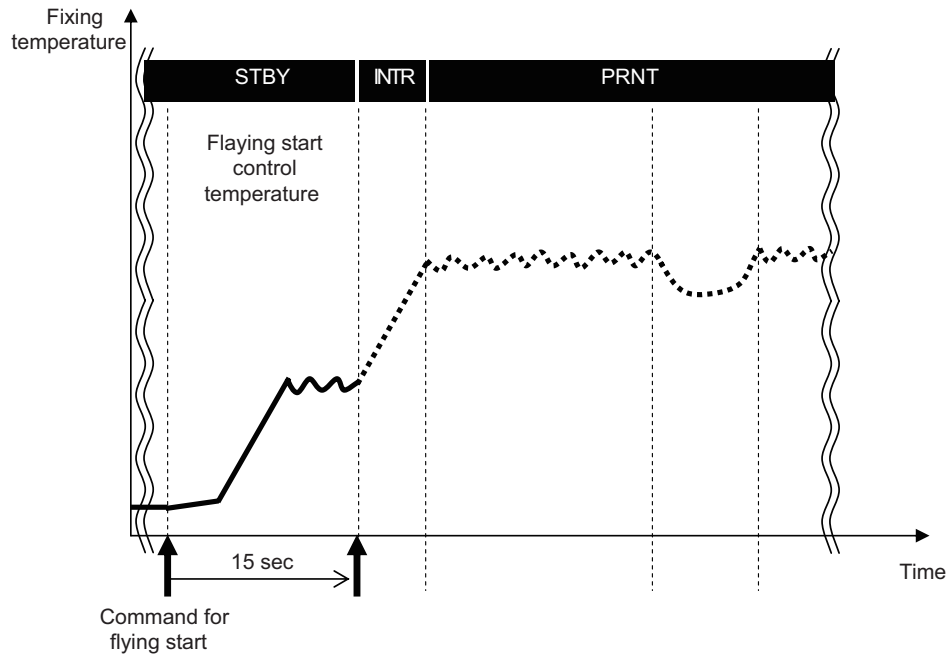
No.	Name	Function/Method
[1]	Film Unit	A toner image on paper is fixed by applying heat/pressure.
[2]	Pressure Roller	

No.	Name	Function/Method
[3]	Shutter	Opens and operates at seven different positions according to the size of paper to be fed.
H1	Fixing Heater	Ceramic Heater
TH1	Main Thermistor	
	Fixing Heater (Center)	This is engaged with Heater. Temperature is controlled and abnormal temperature increase is detected.
	Fixing Film (Center)	This is engaged with the inside surface of Film. Temperature is controlled and abnormal temperature increase is detected.
	Fixing Heater (Front Edge)	This is engaged with Heater. Temperature is controlled and abnormal temperature increase is detected.
	Fixing Heater (Rear Edge)	This is engaged with Heater. Temperature is controlled and abnormal temperature increase is detected.
TH2	Sub Thermistor	
	Fixing Film (Front Edge)	This is engaged with the inside of the film (non paper feed area). Temperature Control, Abnormal Temperature Rise Detection, Edge Temperature Detection/Cooling Control
	Fixing Film (Rear Edge)	This is engaged with the inside of the film (non paper feed area). Temperature Control, Abnormal Temperature Rise Detection, Edge Temperature Detection/Cooling Control
TP1	Thermoswitch	Heater non contact type AC power supply is shut down at detection of a failure.
PS30	Fixing Pressure Sensor	Detect the engagement/disengagement status of the Film Unit
PS31	Shutter HP Sensor	Detect the home position of the shutter
PS32	Shutter Position Sensor	Detect the position of the shutter
PS37	Inner Delivery Sensor	Jam Detection

Overview of Fixing Temperature Control



Standby temperature control



■ Flying start temperature control

Purpose:

To execute temperature control of the Fixing Unit before starting a job in order to reduce time to print the first sheet (FPOT).

Startup conditions:

- When pressing a numeric key on Control Panel
- When pressing a software key on Touch Panel
- When recovering from sleep mode to standby mode

Control description:

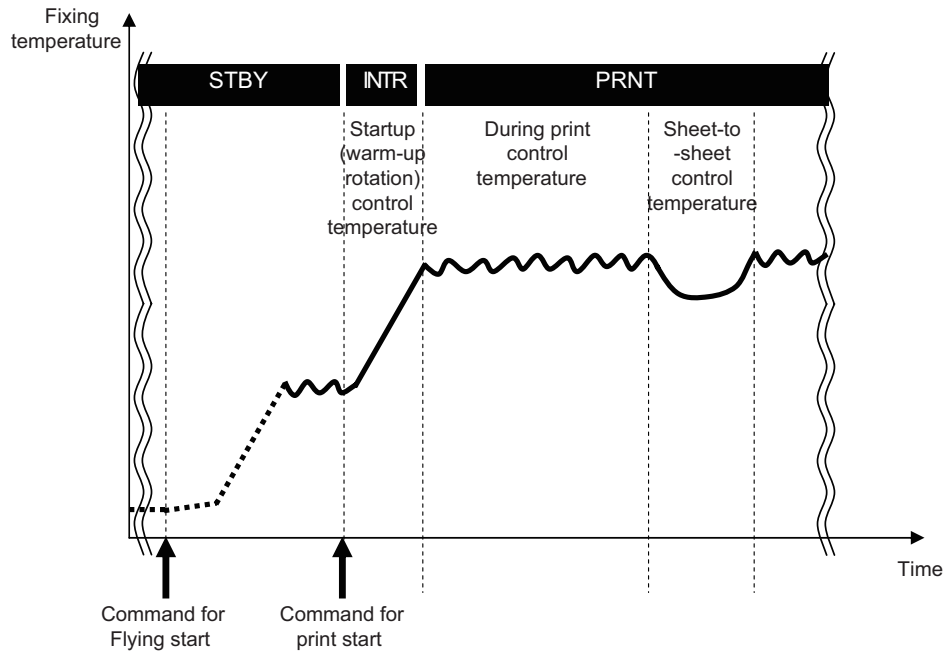
Starts up the machine until it reaches the designated temperature and then controls the temperature.

Related Service Mode

Set whether to execute flying start (Service Mode: Lv. 2)

- COPIER > OPTION > IMG-FIX > FLYING

Print temperature control



■ Startup (warm-up rotation) temperature control

To increase fixing temperature to be ready for printing once the print-start command is received.

■ Print temperature control

This is a control to set an optimal target temperature to prevent fixing failure or hot offset. Temperature is controlled to maintain the specified target temperature during printing.

Setting the target temperature

Determined according to the time which elapsed from when fixing temperature control (including standby control) finished last time and the fixing temperature when startup control started.

Temperature control during printing

Temperature is controlled to maintain the target temperature according to the detected temperature of the Main Thermistor (Fixing Heater (Center) and Fixing Film (Center)).

■ Paper interval temperature control

The paper interval temperature is decreased to prevent temperature increase when the paper interval becomes wider than a normal condition*1.

Paper Interval Temperature = Target temperature during printing - (4 to 18 deg C)

*1:

- At paper interval widening
An interval between the first side and the second side at 2-sided printing
- At down sequence
At execution of controls (ATR control, registration control, ATVC control)

Related Service Mode

Display the detected temperature of the thermistor

- COPIER > DISPLAY > ANALOG > FIX-C (displays Fixing Film temperature)
- COPIER > DISPLAY > ANALOG > FIX-E (displays temperature at center of Fixing Heater)
- COPIER > DISPLAY > ANALOG > FIX-E2 (displays temperature at front edge of Fixing Heater)
- COPIER > DISPLAY > ANALOG > FIX-E3 (displays temperature at rear edge of Fixing Heater)
- COPIER > DISPLAY > ANALOG > FIX-F (displays temperature at front edge of Fixing Film)
- COPIER > DISPLAY > ANALOG > FIX-R (displays temperature at rear edge of Fixing Film)

Set the fixing control temperature

- COPIER > OPTION > IMG-FIX > TEMP-TBL (Plain paper 1)
- COPIER > OPTION > IMG-FIX > TMP-TBL7 (Plain paper 2)
- COPIER > OPTION > IMG-FIX > TMP-TB04 (Plain paper 3)
- COPIER > OPTION > IMG-FIX > TEMP-TBL2 (Heavy paper 1)
- COPIER > OPTION > IMG-FIX > TEMP-TBL3 (Heavy paper 2)
- COPIER > OPTION > IMG-FIX > TEMP-TBL4 (Heavy paper 3)
- COPIER > OPTION > IMG-FIX > TEMP-TB02 (Heavy paper 4)
- COPIER > OPTION > IMG-FIX > TEMP-TB03 (Heavy paper 5)
- COPIER > OPTION > IMG-FIX > TEMP-TB05 (Heavy paper 6)
- COPIER > OPTION > IMG-FIX > TEMP-TB06 (Heavy paper 7)
- COPIER > OPTION > IMG-FIX > TEMP-TB01 (Thin paper 1)
- COPIER > OPTION > IMG-FIX > TEMP-TBL5 (Thin paper 2)
- COPIER > OPTION > IMG-FIX > TMP-TBL9 (1-sided coated paper 1)
- COPIER > OPTION > IMG-FIX > TMP-TB10 (1-sided coated paper 2)
- COPIER > OPTION > IMG-FIX > TMP-TB07 (1-sided coated paper 3)
- COPIER > OPTION > IMG-FIX > TMP-TB08 (2-sided coated paper 1)
- COPIER > OPTION > IMG-FIX > TMP-TB09 (2-sided coated paper 2)
- COPIER > OPTION > IMG-FIX > TMP-T010 (2-sided coated paper 3)
- COPIER > OPTION > IMG-FIX > TMP-TB11 (Recycled paper 1)
- COPIER > OPTION > IMG-FIX > TMP-T011 (Recycled paper 2)
- COPIER > OPTION > IMG-FIX > TMP-T012 (Recycled paper 3)
- COPIER > OPTION > IMG-FIX > TMP-TBL6 (Envelope)
- COPIER > OPTION > IMG-FIX > TMP-TBL8 (Transparency)

Down Sequence Control

■ Down sequence when small-size paper is fed

Purpose:

To prevent fixing offset and deterioration of the Fixing Film by controlling temperature increase at a non paper feed area at continuous printing of small-size paper (paper with the width-direction length of A4R or less)

Startup conditions:

When the detected temperature of the Main Thermistor (front/rear edge of the Fixing Heater) and Sub Thermistor (front/rear edge of the Fixing Film) during printing is at or below the designated temperature

Operation:

The paper interval is increased to lower the temperature and adjust it slightly below the target temperature for normal printing.

Model	The content inside the parentheses after paper type is paper weight (g/m ²)	Print speed (ppm)
60 ppm machine	Thin paper 2 (52 to 59) / Thin paper 1 (60 to 63)	14 to 4
	Plain paper 1 (64 to 75) / Plain paper 2 (76 to 90) / Recycled paper 1 (64 to 75) / Recycled paper 2 (76 to 90) / Color paper (64 to 81) / Pre-punched paper (64 to 81) / Washi (JPN paper) (93)	
	Plain paper 3 (91 to 105) / Recycled paper 3 (91 to 105) / Bond paper (80 to 99) / Tracing paper (64 to 81) / Tab paper 1 (91 to 105)	
	Heavy paper 1 (106 to 128) / Tab paper 2 (106 to 128)	18 to 4
	Heavy paper 2 (129 to 150) / Heavy paper 3 (151 to 163) / Label paper (118 to 180) / Tab paper 3 (129 to 150) / Letterhead (106 to 163)	11 to 2
	Heavy paper 4 (164 to 180) / Heavy paper 5 (181 to 220) / Postcard / 4 on 1 Postcard (164 to 220) / Tab paper 4 (151 to 220)	
	Heavy paper 6 (221 to 256) / Heavy paper 7 (257 to 300)	
	1-sided coated paper 1 (106 to 163) / 2-sided coated paper 1 (106 to 163)	
	1-sided coated paper 2 (164 to 220) / 1-sided coated paper 3 (221 to 256) / 2-sided coated paper 2 (164 to 220) / 2-sided coated paper 3 (221 to 256)	
	Transparency (121 to 220)	
	Envelope	
50/40 ppm machine	Thin paper 2 (52 to 59) / Thin paper 1 (60 to 63)	18 to 4

Model	The content inside the parentheses after paper type is paper weight (g/m ²)	Print speed (ppm)
50/40 ppm machine	Plain paper 1 (64 to 75) / Plain paper 2 (76 to 90) / Recycled paper 1 (64 to 75) / Recycled paper 2 (76 to 90) Color paper (64 to 81) / Pre-punched paper (64 to 81) / Washi (JPN paper) (93)	18 to 4
	Plain paper 3 (91 to 105) / Recycled paper 3 (91 to 105) / Bond paper (80 to 99) / Tracing paper (64 to 81) / Tab paper 1 (91 to 105)	
	Heavy paper 1 (106 to 128) / Tab paper 2 (106 to 128)	
	Heavy paper 2 (129 to 150) / Heavy paper 3 (151 to 163) / Label paper (118 to 180) / Tab paper 3 (129 to 150) / Letterhead (106 to 163)	11 to 2
	Heavy paper 4 (164 to 180) / Heavy paper 5 (181 to 220) / Postcard / 4 on 1 Postcard (164 to 220) / Tab paper 4 (151 to 220)	
	Heavy paper 6 (221 to 256) / Heavy paper 7 (257 to 300)	
	1-sided coated paper 1 (106 to 163) / 2-sided coated paper 1 (106 to 163)	
	1-sided coated paper 2 (164 to 220) / 1-sided coated paper 3 (221 to 256) / 2-sided coated paper 2 (164 to 220) / 2-sided coated paper 3 (221 to 256)	
	Transparency (121 to 220)	
	Envelope	
35 ppm machine	Thin paper 2 (52 to 59) / Thin paper 1 (60 to 63)	12 to 4
	Plain paper 1 (64 to 75) / Plain paper 2 (76 to 90) / Recycled paper 1 (64 to 75) / Recycled paper 2 (76 to 90) Color paper (64 to 81) / Pre-punched paper (64 to 81) / Washi (JPN paper) (93)	
	Plain paper 3 (91 to 105) / Recycled paper 3 (91 to 105) / Bond paper (80 to 99) / Tracing paper (64 to 81) / Tab paper 1 (91 to 105)	
	Heavy paper 1 (106 to 128) / Tab paper 2 (106 to 128)	11 to 2
	Heavy paper 2 (129 to 150) / Heavy paper 3 (151 to 163) / Label paper (118 to 180) / Tab paper 3 (129 to 150) / Letterhead (106 to 163)	
	Heavy paper 4 (164 to 180) / Heavy paper 5 (181 to 220) / Postcard / 4 on 1 Postcard (164 to 220) / Tab paper 4 (151 to 220)	
	Heavy paper 6 (221 to 256) / Heavy paper 7 (257 to 300)	
	1-sided coated paper 1 (106 to 163) / 2-sided coated paper 1 (106 to 163)	
	1-sided coated paper 2 (164 to 220) / 1-sided coated paper 3 (221 to 256) / 2-sided coated paper 2 (164 to 220) / 2-sided coated paper 3 (221 to 256)	
	Transparency (121 to 220)	
	Envelope	

Related Service Mode

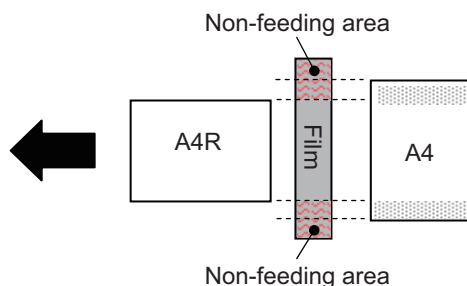
Set temperature to start down sequence when feeding small-size paper

- COPIER > OPTION > IMG-SPD > FX-D-TMP

■ Down sequence when switching paper size

Purpose:

During continuous printing, when a succeeding sheet with a wider width than a preceding sheet is fed, temperature at the non paper feed area increases, and it may cause fixing offset and wrinkles, etc. This down sequence controls temperature increase at the non paper feed area.



Startup conditions:

When switching to paper that is wider than the preceding sheet while printing and the detected temperature of the Main Thermistor (front/rear edge of the Fixing Heater) and Sub Thermistor (front/rear edge of the Fixing Film) at that time exceeds the designated temperature

Operation:

The paper interval is increased to decrease temperature, and feeding the succeeding sheet and power supply to the Heater are stopped.

Termination condition:

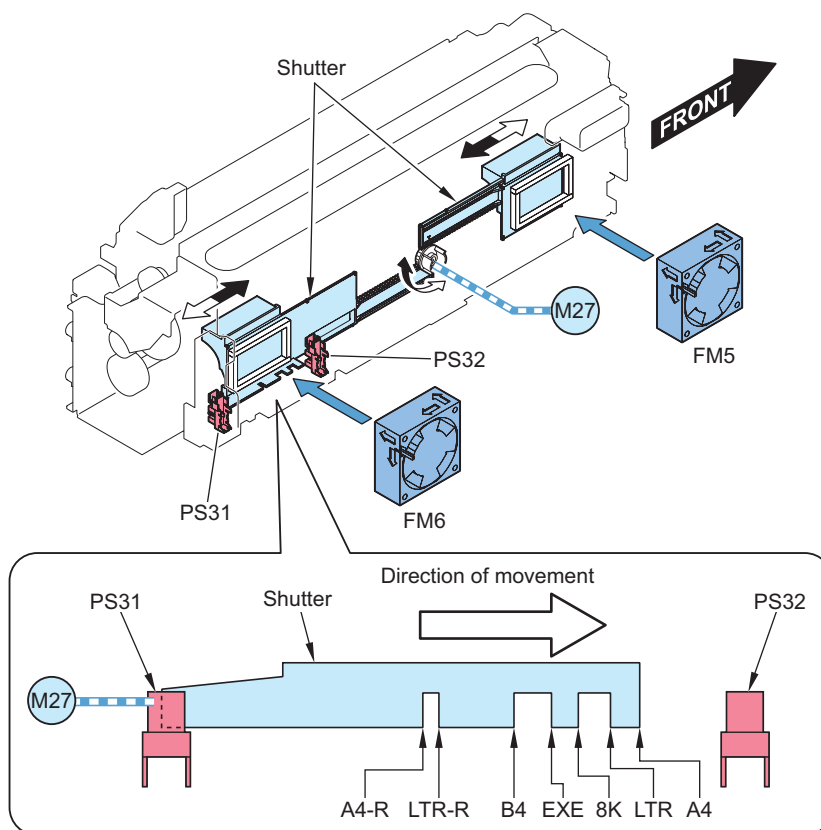
This down sequence is terminated at the point when any of the following conditions is satisfied.

- When the detected temperature of the Main Thermistor (front/rear edge of the Fixing Heater) and Sub Thermistor (front/rear edge of the Fixing Film) is at or below the designated temperature
- When specified time has elapsed after the preceding sheet passed the fixing nip

Fixing Film Edge Cooling Control

Temperature at the edge of the film rises during continuous printing. Excessive temperature rise leads to film deterioration, so it enters down sequence when printing small-size paper (paper with the width-direction length of A4R or less).

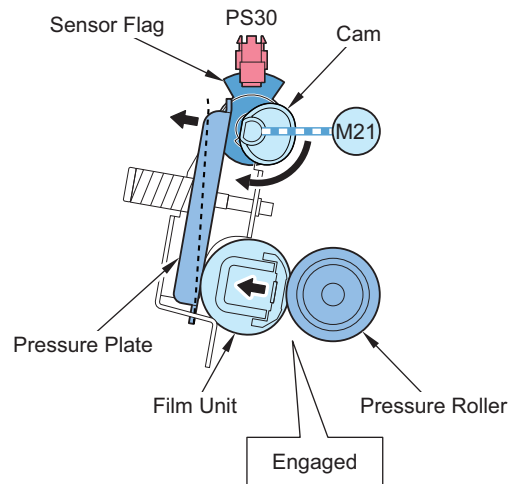
In the event that the film temperature exceeds the designated temperature (Main Thermistor; front/rear edge of the Fixing Heater, Sub Thermistor; front/rear edge of the Fixing Film) when printing paper with the width-direction length of A4R or larger to A3 or smaller, temperature increase is controlled by ventilating and cooling the film from the fan provided near the Fixing Assembly. Unlike down sequence, there is no reduction in throughput because this control is performed while continuing to print.



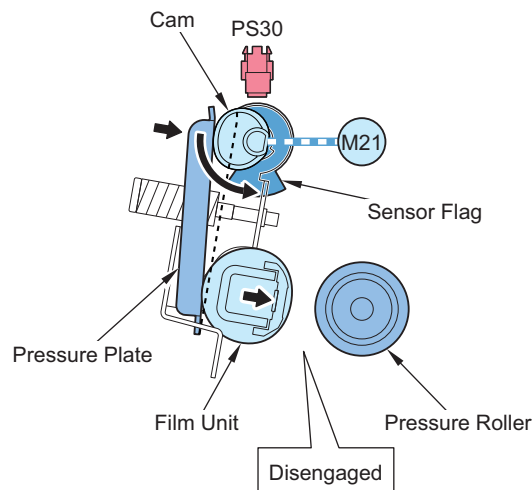
A shutter is provided in the vent, which opens and operates at seven different positions according to the size of paper to be fed. This enables air to be blown to the most suitable area of the film.

Film Unit Engagement/Disengagement Control

The Film Unit is disengaged from the Pressure Roller under a specific condition in order to prevent deformation of the Fixing Film/Pressure Roller due to heat and pressure that arise when the drive of the Pressure Roller stops, and to improve jam removability.

Execution condition/timing (engagement):

- When the unit is disengaged at power-on
- At recovery after jam removal
- When closing the Front Cover/Right Cover

Execution condition/timing (disengagement):

- When turning OFF the power
- At occurrence of a jam
- At occurrence of an error

Related Error Code

E009 (Film Unit engagement/disengagement error)

- E009-0000: Engagement error
- E009-0001: Disengagement error
- E009-0002: Engagement error (it is highly possible that grease is scattered on the surface of the cam)

Fixing Unit Detection

At power-on/recovery from sleep mode/closing of the cover, the Thermistor connection signal is input to the DC Controller to detect the Fixing Unit.

When it is judged that the Fixing Unit is absent, error code: E004-0000 is displayed and operations stop.

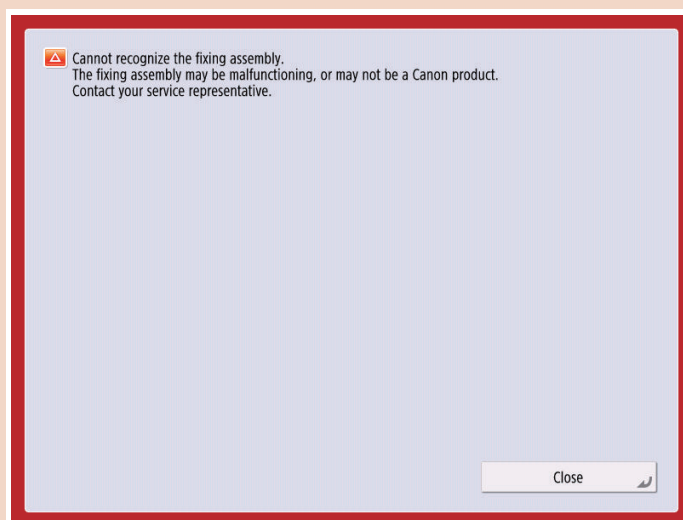
Detection of New Fixing Film Unit

The Fixing Memory PCB (UN79) detects whether the Fixing Film Unit is new at power-on/recovery from sleep mode/closing of the cover.

When a new part is detected, the parts counter (COPIER > COUNTER> DRBL-1 > FX-UP-FR) is cleared and the Fixing Film Unit replacement completion alarm (alarm code: 43-0076) is generated.

CAUTION:

When the Fixing Memory PCB cannot be detected, the following screen is displayed on the Control Panel. At that time, alarm code 06-0012 is generated.



Protection function

Code	Description	Clearing of error	
E001	Detection of abnormal high temperature		
	0001	The Fixing Main Thermistor detected a high temperature error.	Required*1
	0002	The Fixing Thermistor (Front) detected a high temperature error.	Required*1
	0003	The Fixing Thermistor (Rear) detected a high temperature error.	Required*1
	0004	The Fixing Film Thermistor (Middle) detected a high temperature error.	Required*1
	0005	The Fixing Film Thermistor (Front) detected a high temperature error.	Required*1
	0006	The Fixing Film Thermistor (Rear) detected a high temperature error.	Required*1
E002	Detection of abnormal low temperature during startup		
	0001	After the Fixing Heater was turned ON, the Fixing Main Thermistor detected no temperature increase.	Required*1
	0002	Startup control was not completed although 60 sec had passed.	Required*1
	0003	After the Fixing Heater was turned ON, the Fixing Main Thermistor detected error in temperature increase.	Required*1
	0004	After the Fixing Heater was turned ON, the Fixing Thermistor (Front) detected error in temperature increase.	Required*1
	0005	After the Fixing Heater was turned ON, the Fixing Thermistor (Rear) detected error in temperature increase.	Required*1
	0006	The Fixing Film Thermistor (Middle) detected no temperature increase.	Required*1
	0007	The Fixing Film Thermistor (Front) detected no temperature increase.	Required*1
	0008	The Fixing Film Thermistor (Rear) detected no temperature increase.	Required*1
	0009	The Fixing Film Thermistor (Middle) detected error in temperature increase.	Required*1
	0010	The Fixing Film Thermistor (Front) detected error in temperature increase.	Required*1
0011	The Fixing Film Thermistor (Rear) detected error in temperature increase.	Required*1	
E003	Detection of low temperature		
	0001	The Fixing Main Thermistor detected an abnormally low temperature during print control.	Required*1
	0002	The Fixing Sub Thermistor (Front) detected an abnormally low temperature during print control.	Required*1
	0003	The Fixing Sub Thermistor (Rear) detected an abnormally low temperature during print control.	Required*1

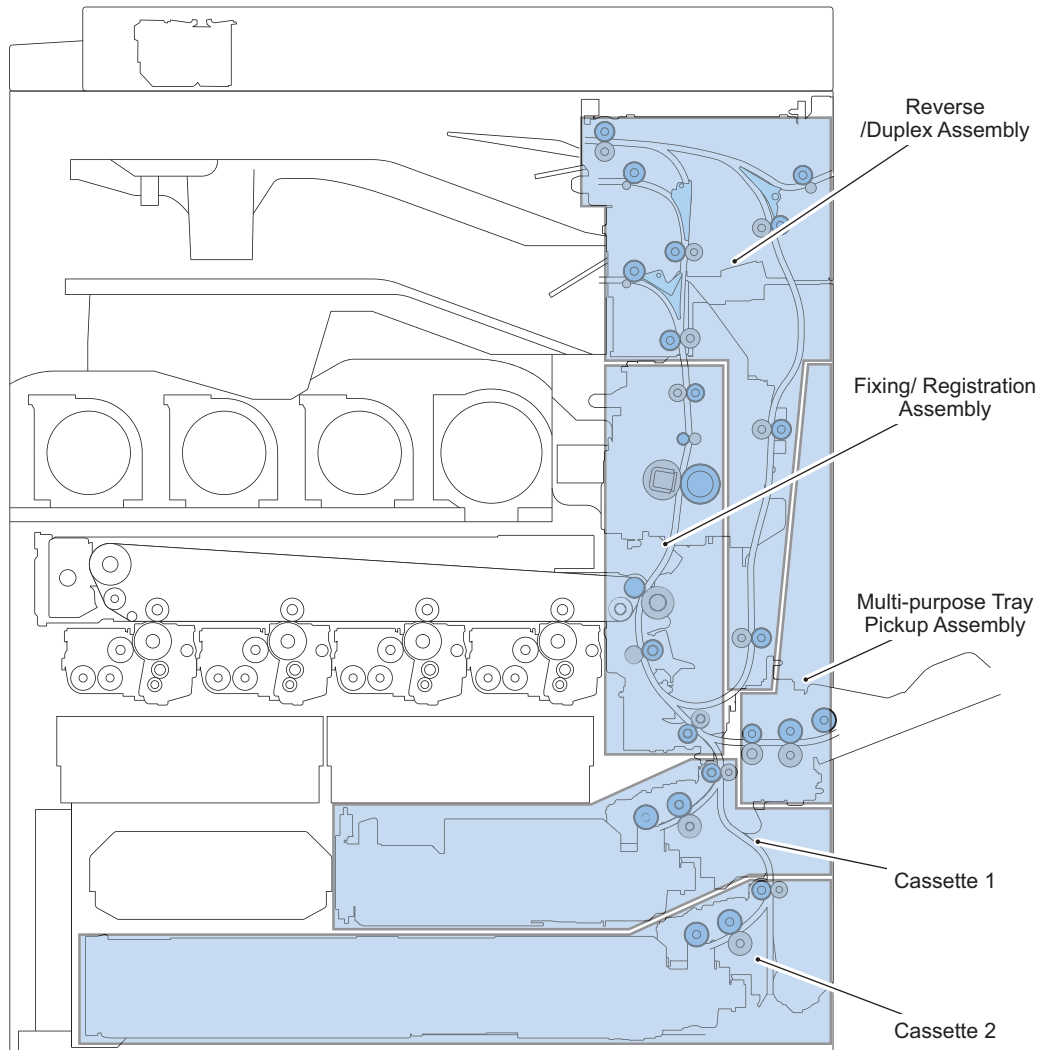
Code		Description	Clearing of error
E003	0004	The Fixing Film Thermistor (Middle) detected an abnormally low temperature during print control.	Required*1
	0005	The Fixing Film Thermistor (Front) detected an abnormally low temperature during print control.	Required*1
	0006	The Fixing Film Thermistor (Rear) detected an abnormally low temperature during print control.	Required*1
	0007	An error in temperature difference between the Fixing Film Thermistor (Front) and (Rear) was detected during print control.	Required*1
E004	Detection of error in the Fixing Heater drive circuit		
	0000	Open circuit of the Fixing Thermistor or connector disconnection was detected.	Not required
	0001	Welding of the fixing relay on the AC Driver PCB was detected.	Not required
E009	Detection of error in fixing engagement/disengagement		
	0000	The Fixing Pressure Sensor did not detect ON status within 5 sec after the start of pressure application operation for fixing.	Not required
	0001	The Fixing Pressure Sensor did not detect OFF status within 5 sec after the start of fixing disengagement operation.	Not required
	0002	The gears did not stop at pressure application position within 10 times after the start of pressure application operation for fixing.	Not required
E014	Fixing Motor error		
	0001	Lock error of the Fixing Motor was detected.	Not required
E808	Detection of error in fixing drive circuit/power supply		
	0000	Zero cross signal was not detected after fixing relay was ON.	Not required

*1: After performing the remedy work, the error can be cleared in the following service mode:

- COPIER > FUNCTION > CLEAR > ERR

Pickup Feed System

Overview



■ Features

- Enhanced productivity
The registration control has been improved and the pre-registration control has been abolished, thereby improving the productivity.
- Addition of print-supported paper types
Support of 300g/m² paper (including coated paper) with the Multi-purpose Tray pickup.
- Automatic paper size recognition for Multi-purpose Tray pickup
The usability has been improved by automatic paper size recognition for Multi-purpose Tray pickup.
- Support for landscape envelopes
Landscape envelopes can now be fed from the Cassette 1 and Multi-purpose Tray.
- Longer life of the Pickup Roller, Feed Roller, and Separation Roller
Longer life of the Pickup Roller, Feed Roller, and Separation Roller is achieved by changing the materials.

■ Specification

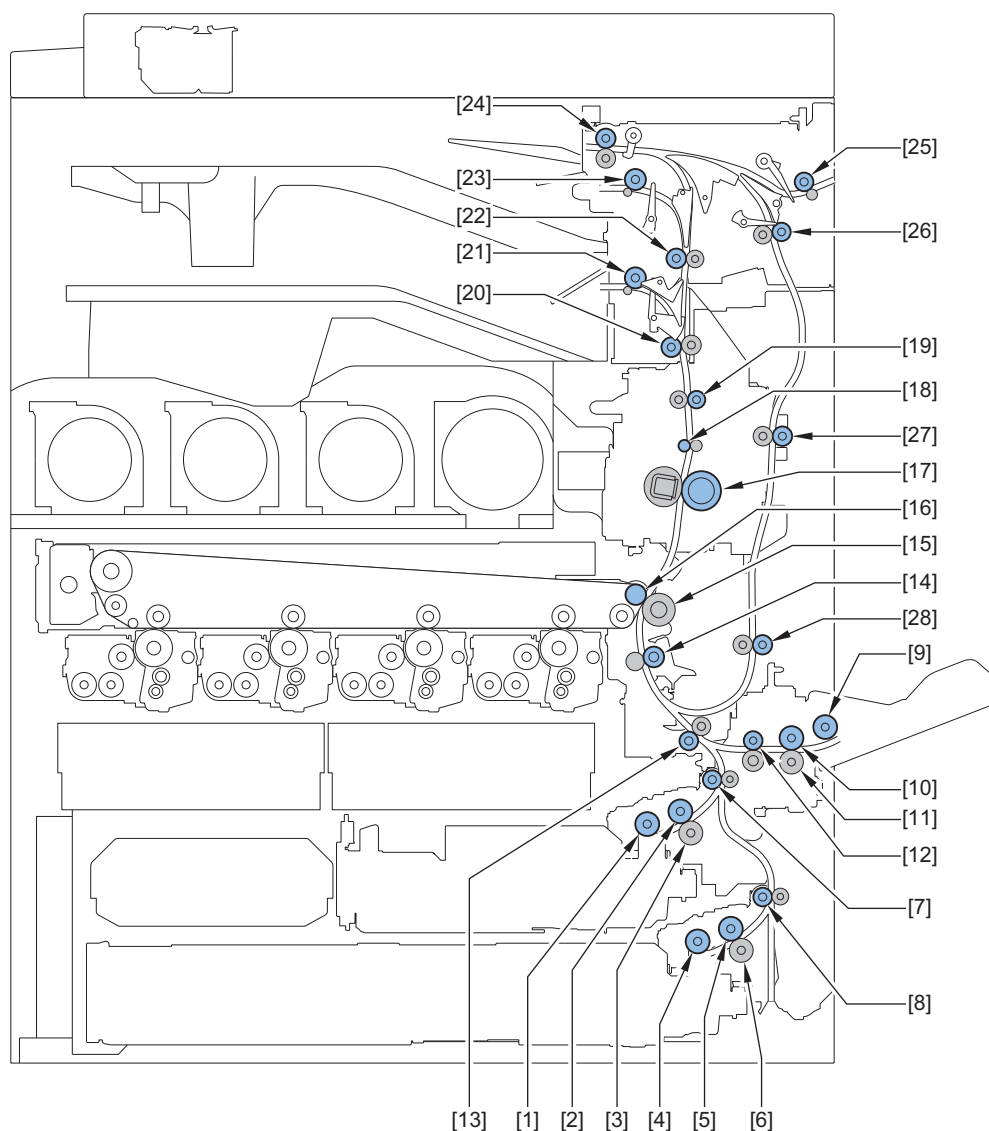
Item	Description
Pickup Method	Cassette 1/2, Multi-purpose Tray Separation retard method

Item	Description
Paper size	<p>Multi-purpose Tray: * A3R, B4R, A4, A4R, B5, B5R, A5, A5R, A6R, SRA3R, 11"x17"R, 12"x18"R, LGLR, LTR, LTRR, EXE_L, STMT, STMTR, 8KR, 16K, 16KR, Postcard (Postcard, Reply postcard, 4 on 1 postcard), Envelope Kakugata 2, Envelope Yougatanaga 3, Envelope Nagagata 3, No.10 (COM10), Monarch, DL, ISO-C5, Envelope Custom size (horizontal scanning: 98.0 to 320.0 mm, vertical scanning: 98.4 to 457.2 mm), Custom Size (horizontal scanning: 98.0 to 320.0 mm, vertical scanning: 139.7 to 457.2 mm), Free Size (horizontal scanning: 98.0 to 320.0 mm, vertical scanning: 139.7 to 457.2 mm).</p> <p>Cassette 1: A4, B5, A5, A5R, A6R, LTR, EXE_L, STMTR, 16K, Postcard (Postcard, Reply postcard, 4 on 1 postcard), Envelope (Yougatanaga 3, Envelope Nagagata 3, No.10 (COM10), DL, ISO-C5), Custom Size (horizontal scanning: 98.0 to 297.0 mm, vertical scanning: 148.0 to 215.9 mm).</p> <p>Cassette 2: A3R, B4R, A4, A4R, B5, B5R, A5R, A5, A6R, 11"x17"R, 12"x18"R, LGLR, LTR, LTRR, EXE_L, STMTR, 8KR, 16K, 16KR, Postcard (Postcard, Reply postcard, 4 on 1 postcard), Envelopes Kakugata 2, Envelope Yougatanaga 3, Envelope Nagagata 3, No.10 (COM10), Monarch, DL, ISO-C5, Custom Size (horizontal scanning: 98.0 to 304.8 mm, vertical scanning: 182.0 to 457.2 mm).</p>
Paper type	<p>Multi-purpose Tray Thin paper (52 to 63 gsm), plain paper (64 to 105 gsm), heavy paper (106 to 300 gsm), color paper (64 to 81 gsm), recycled paper (64 to 105 gsm), Pre-Punched (64 to 81 gsm), OHP, tracing paper (64 to 81 gsm), label paper, tab paper (91 to 220 gsm), bond paper (82 to 99 gsm), Washi (93 gsm), coated paper (106 to 256 gsm), envelope (75 to 105 gsm), postcard (164 to 220 gsm), letterhead (106 to 163 gsm)</p> <p>Cassette 1 Thin paper (52 to 63 gsm), plain paper (64 to 105 gsm), heavy paper (106 to 256 gsm), color paper (64 to 81 gsm), recycled paper (64 to 105 gsm), Pre-Punched (64 to 81 gsm), OHP, bond paper (82 to 99 gsm), envelope (75 to 105 gsm), letterhead (106 to 163 gsm)</p> <p>Cassette 2 Thin paper (52 to 63 gsm), plain paper (64 to 105 gsm), heavy paper (106 to 256 gsm), color paper (64 to 81 gsm), recycled paper (64 to 105 gsm), Pre-Punched (64 to 81 gsm), OHP, tab paper (91 to 220 gsm), bond paper (82 to 99 gsm), envelope (75 to 105 gsm), letterhead (106 to 163 gsm)</p>
Stacking capacity	<p>Multi-purpose Tray 120 sheets (64 gsm), 100 sheets (80 gsm)</p> <p>Cassette 1 80 gsm: 550 sheets 64 gsm: 640 sheets Envelope: 25 sheets Others: 57mm</p> <p>Cassette 2 80 gsm: 550 sheets 64 gsm: 640 sheets Others: 57mm</p>
Switching the Paper Size	<p>Cassette 1/2, Multi-purpose Tray Auto size detection</p>
2-Sided Printing method	Through-pass
Size detection	Yes
Paper Level Detection	<p>Multi-purpose Tray No</p> <p>Cassette 1/2 Yes (the remaining paper is displayed on the Control Panel in three levels)</p>
Transparency Detection	No
Lead Edge Margin	4.0 mm +1.5/-1.0 mm
Left Edge Margin	1-Sided: 2.5 ± 1.5 mm 2-Sided: 2.5 ± 2.0 mm

Up to 1200 mm in length can be specified from the service mode.

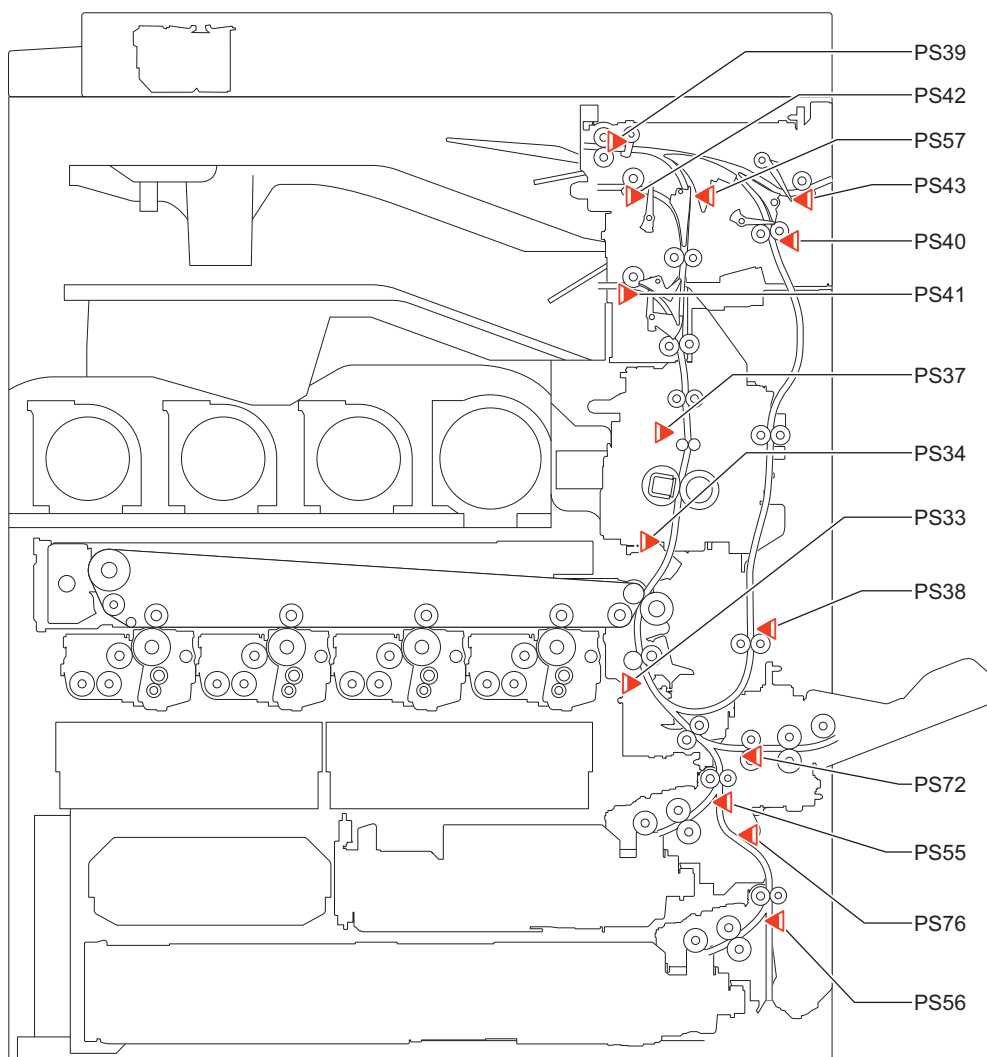
■ Parts Configuration

● Layout Drawing of Rollers



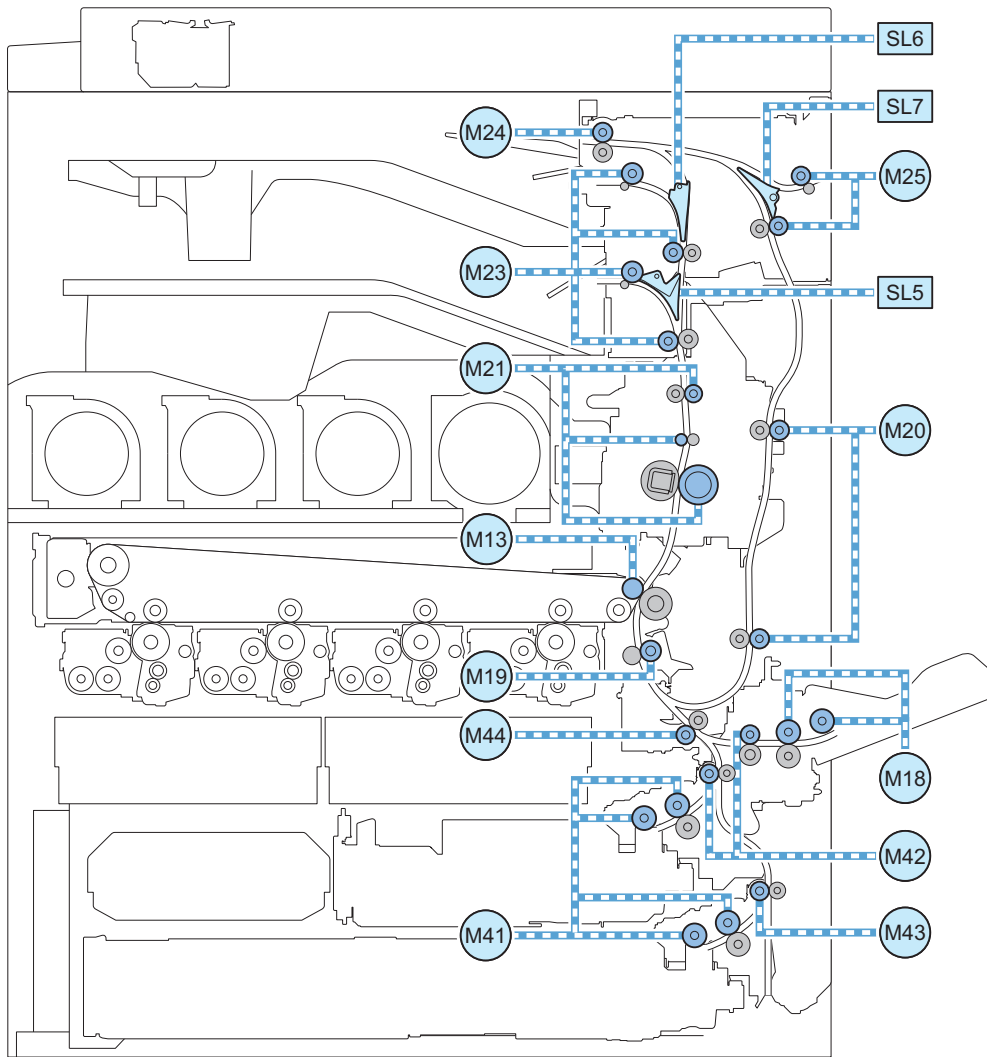
No.	Name	No.	Name
[1]	Cassette 1 Pickup Roller	[15]	Secondary Transfer Outer Roller
[2]	Cassette 1 Feed Roller	[16]	Secondary Transfer Inner Roller
[3]	Cassette 1 Separation Roller	[17]	Fixing Pressure Roller
[4]	Cassette 2 Pickup Roller	[18]	Fixing Inner Delivery Roller
[5]	Cassette 2 Feed Roller	[19]	Fixing Outlet Roller
[6]	Cassette 2 Separation Roller	[20]	Vertical Path Roller 1
[7]	Cassette 1 Pullout Roller	[21]	First Delivery Roller
[8]	Cassette 2 Pullout Roller	[22]	Vertical Path Roller 2
[9]	MP Pickup Roller	[23]	Second Delivery Roller
[10]	Multi-purpose Tray Feed Roller	[24]	Duplex Reverse Roller
[11]	MP Separation Roller	[25]	Third Delivery Roller
[12]	Multi-purpose Tray Pullout Roller	[26]	Duplex Inlet Roller
[13]	Pre-registration Roller	[27]	Duplex Feed Upper Roller
[14]	Registration Roller	[28]	Duplex Feed Lower Roller

• Sensors Layout Drawing



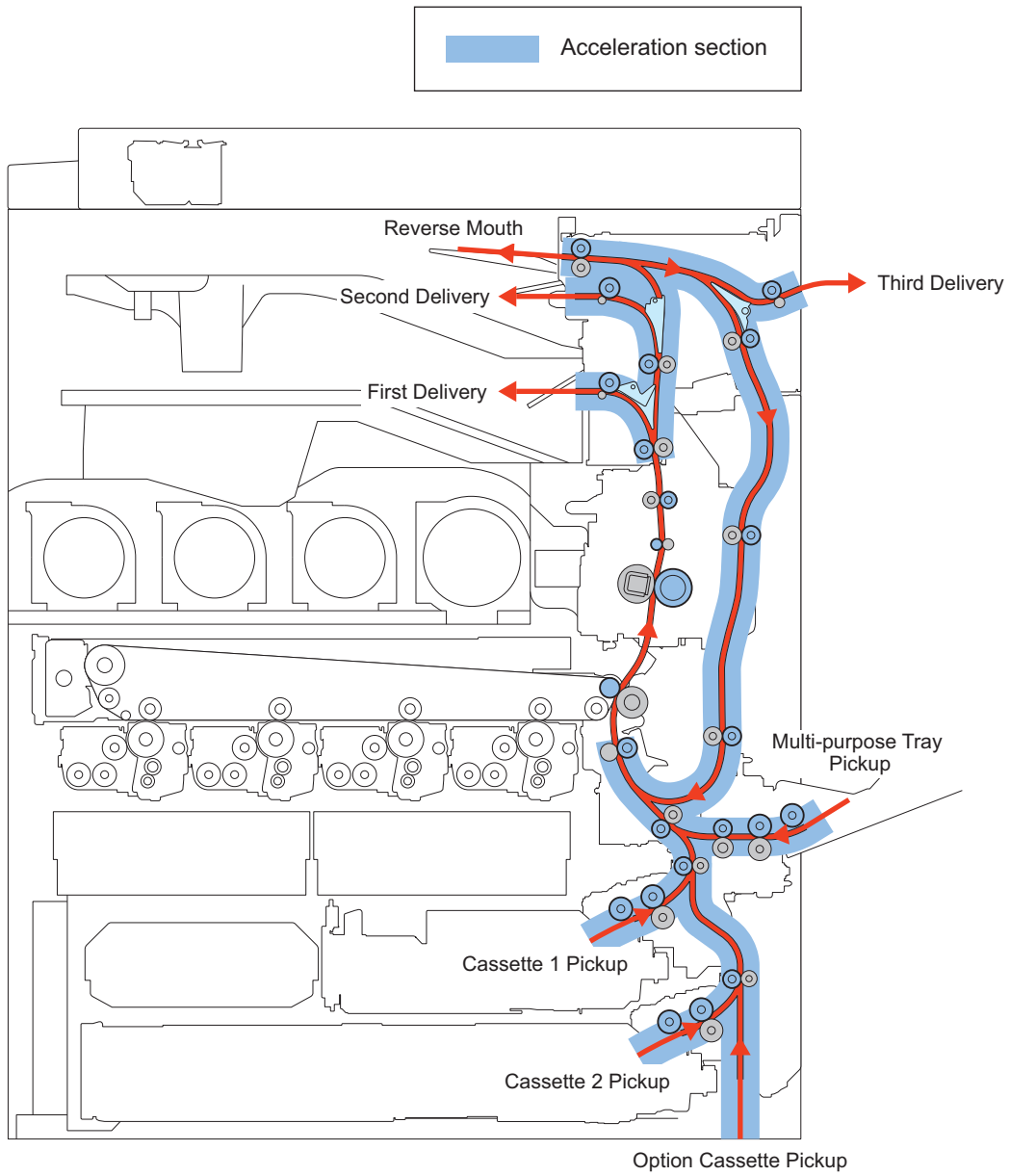
No.	Name	No.	Name
PS33	Registration Sensor	PS42	Second Delivery Sensor
PS34	Fixing Inlet Sensor	PS43	Third Delivery Sensor
PS37	Inner Delivery Sensor	PS55	Cassette 1 Pullout Sensor
PS38	Duplex Paper Sensor	PS56	Cassette 2 Pullout Sensor
PS39	Reverse Sensor	PS57	Pre-Reverse Sensor
PS40	Duplex Inlet Sensor	PS72	Multi-Purpose Tray Pullout Sensor
PS41	First Delivery Sensor	PS76	Between-Cassette 1/2 Sensor

• Diagram of Load Drives



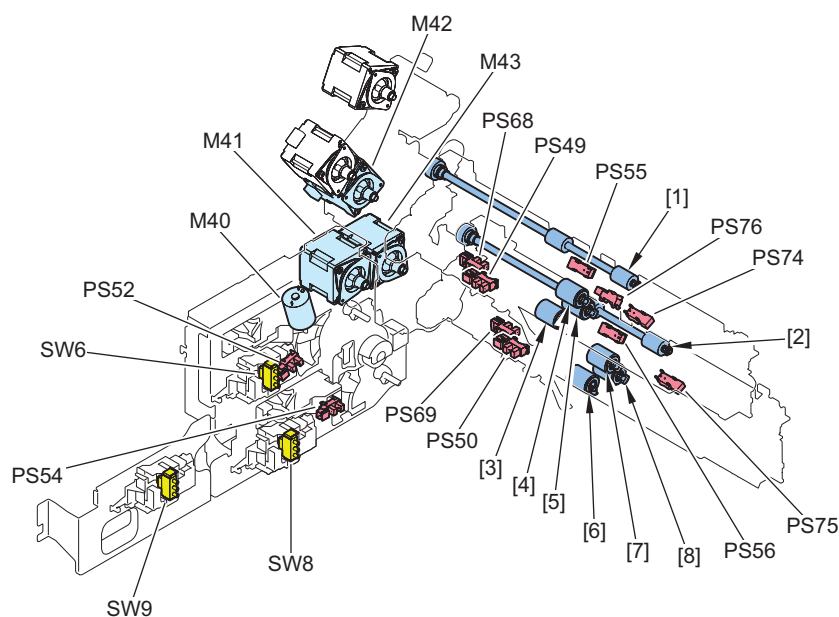
No.	Name	No.	Name
M13	ITB Motor	M41	Cassette 1,2 Pickup Motor
M18	Multi-Purpose Pickup Motor	M42	Cassette 1 Pullout Motor
M19	Registration Motor	M43	Cassette 2 Pullout Motor
M20	Duplex Feed Motor	M44	Pre-Registration Motor
M21	Fixing Motor	SL5	First Delivery Flapper Solenoid
M23	First & Second Delivery Motor	SL6	Second Delivery Flapper Solenoid
M24	Reverse Motor	SL7	Third Delivery Flapper Solenoid
M25	Third Delivery Motor		

■ Paper Path



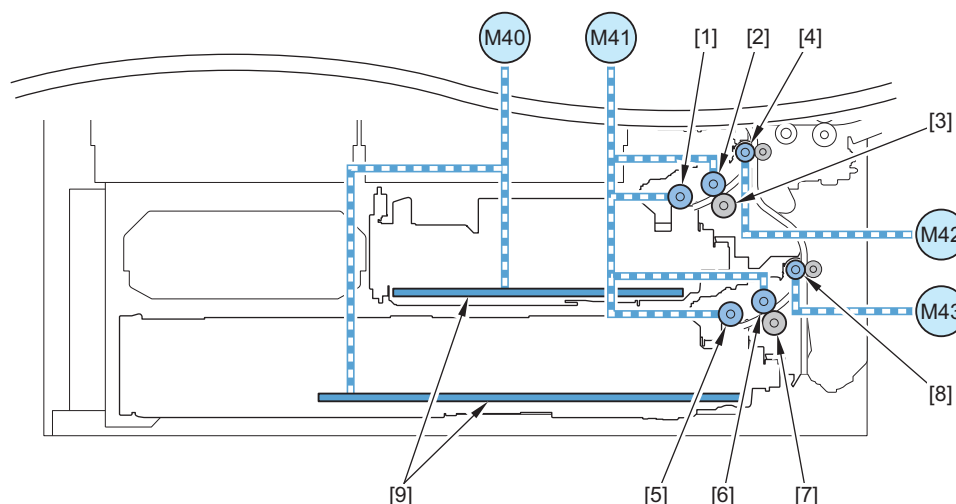
Cassette Pickup Assembly

Parts Configuration



No.	Name
[1]	Cassette 1 Pullout Roller
[2]	Cassette 2 Pullout Roller
[3]	Cassette 1 Pickup Roller
[4]	Cassette 1 Feed Roller
[5]	Cassette 1 Separation Roller
[6]	Cassette 2 Pickup Roller
[7]	Cassette 2 Feed Roller
[8]	Cassette 2 Separation Roller
M40	Cassette 1,2 Lifter Motor
M41	Cassette 1,2 Pickup Motor
M42	Cassette 1 Pullout Roller
M43	Cassette 2 Pullout Roller
SW6	Cassette 1 Size Switch
SW8	Cassette 2 Size Switch A
SW9	Cassette 2 Size Switch B
PS49	Cassette 1 Paper Sensor
PS50	Cassette 2 Paper Sensor
PS52	Cassette 1 Paper Level Sensor A
PS54	Cassette 2 Paper Level Sensor A
PS55	Cassette 1 Pullout Sensor
PS56	Cassette 2 Pullout Sensor
PS68	Cassette 1 Paper Surface Sensor
PS69	Cassette 2 Paper Surface Sensor
PS74	Cassette 1 Pickup Nip Sensor
PS75	Cassette 2 Pickup Nip Sensor
PS76	Between-Cassette 1/2 Sensor

■ Drive Configuration



No.	Name	No.	Name
[1]	Cassette 1 Pickup Roller	M40	Cassette 1,2 Lifter Motor
[2]	Cassette 1 Feed Roller	M41	Cassette 1,2 Pickup Motor
[3]	Cassette 1 Separation Roller	M42	Cassette 1 Pullout Motor
[4]	Cassette 1 Pullout Roller	M43	Cassette 2 Pullout Motor
[5]	Cassette 2 Pickup Roller		
[6]	Cassette 2 Feed Roller		
[7]	Cassette 2 Separation Roller		
[8]	Cassette 2 Pullout Roller		
[9]	Lifting Plate		

■ Lifter Control

Paper inside a cassette is lifted up by the Lifting Plate.

The Lifting Plate is lifted up by rotating the Cassette 1,2 Lifter Motor (M40).

When the paper surface reaches the position of the Pickup Roller, the Cassette 1/2 Paper Surface Sensor (PS68/PS69) is turned ON to detect that the paper has reached the pickup position.

Lifter Error Detection

When the Cassette Paper Surface Sensor is not turned ON although the Cassette Lifter Motor is driven, an alarm is issued due to error in pickup assembly.

However, at first and second failure of paper surface detection, Trailing Edge Guide Plate error is displayed on the Control Panel to prompt the user to open and then close the cassette.

If paper surface detection fails for 3 consecutive times, no paper is displayed for the cassette and an alarm is issued.

While an alarm has occurred, the corresponding cassette cannot be used.

<Related alarm codes>

- 04-0001: Cassette 1 Lifter Error
- 04-0002: Cassette 2 Lifter Error

■ Cassette Pickup Control

Rotation of the Cassette Pickup Motor feeds paper to the Cassette Pullout Roller.

The Cassette 1/2 Pickup Roller and the Cassette 1/2 Feed Roller are driven by the Cassette 1,2 Pickup Motor (M41) while the Cassette 1/2 Pullout Roller is operated by the rotation of the Cassette 1/2 Pullout Motor (M42/M43).

Pickup Retry Error

Pickup retry is executed when a delay jam is detected by the Pullout Sensor of each cassette.

An alarm code is notified when pickup fails the predetermined number of times.

<Related alarm codes>

- 04-0011: Cassette 1 Pickup Retry Error

- 04-0012: Cassette 2 Pickup Retry Error

■ Drawer Paper Size Detection

The size of paper set in a cassette will be detected and determined by the settings of Paper Size Group for Auto Recognition in Drawer (All Sizes, A/B Size, Inch Size, A/K Size).

Size Detection Results in each Drawer	Paper Size Group for Auto Recognition in Drawer*1			
	All Sizes	A/B Size	Inch Size	A/K size
A3	A3	A3	N/A	A3
B4	B4	B4	N/A	N/A
A4-R	A4-R	A4-R	N/A	A4-R
A4	A4	A4	N/A	A4
B5-R	B5-R	B5-R	N/A	N/A
B5	B5	B5	N/A	N/A
A5-R	As per settings*2	A5-R	STMT-R	A5-R
A5	A5	A5	N/A	A5
A6R *4	A6R	A6R	N/A	A6R
11 x 17	11 x 17	N/A	11 x 17	N/A
LGL	LGL	N/A	LGL	N/A
LTR	LTR	N/A	LTR	N/A
LTR-R	LTR-R	N/A	LTR-R	N/A
STMT-R	As per settings*2	A5-R	STMT-R	A5-R
12 x 18	12 x 18	N/A	12 x 18	N/A
EXEC	As per settings*3	N/A	EXEC	16K
8K	K8	N/A	N/A	8K
16K	As per settings*3	N/A	EXEC	16K
16K-R	K16R	N/A	N/A	16K-R
Envelope	These columns are blank unless "Paper Settings" are executed because it is a custom size.			
Custom size				

*1: Set the paper size group to be auto recognized in Drawer in the Settings/Registration as below.

- Settings/Registration > Preferences > Paper Settings > Paper Size Group for Auto Recognition in Drawer

NOTE:

The default size is set by country as shown below.

Country	Default settings
US	Inch Size
CN	A/K Size
Sizes other than the above	A/B Size

*2: Set whether to select A5-R or STMT-R in the following Settings/Registration.

- Settings/Registration > Preferences > Paper Settings > A5/STMT Paper Selection

*3: Set whether to select EXEC or 16K in the following service mode (Lv.2).

- Cassette 1:
 - COPIER > OPTION > CST > CST-K-SW
- Cassette 2:
 - COPIER > OPTION > CST > C2-K-SW

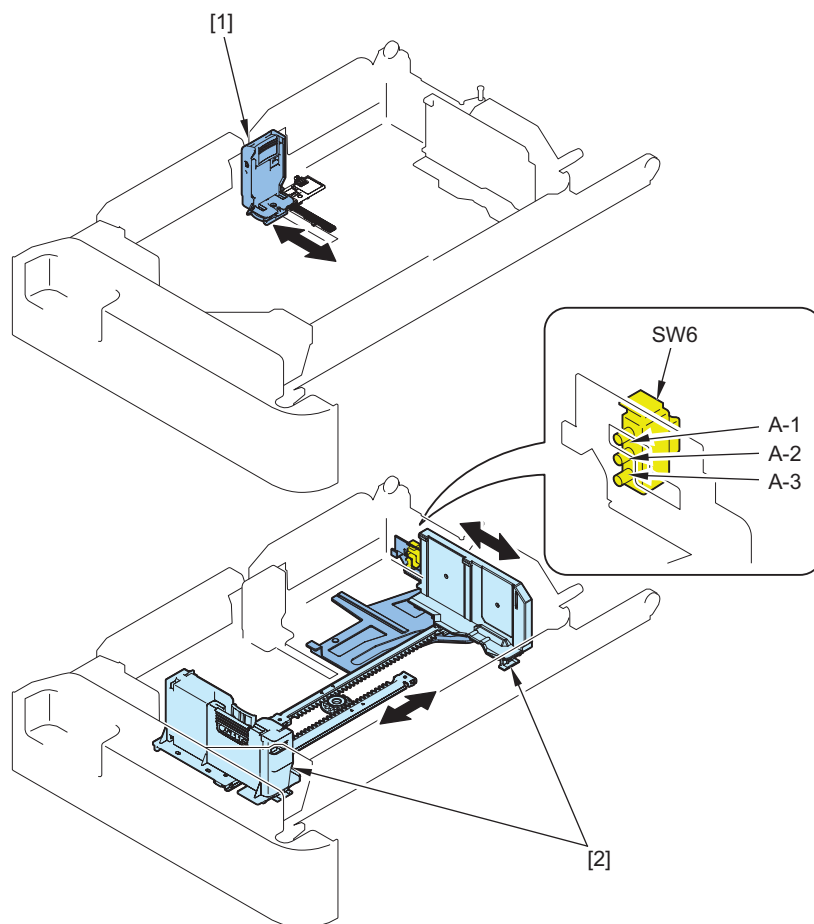
*4: A6-R is recognized as A5-R in Cassette 1. To use A6-R in Cassette 1, select "A6-R" in the following setting.

When using a paper size other than A6-R after it has been selected, press "A6-R" in the following setting to cancel the selection.

- Settings/Registration > Preferences > Paper Settings > Paper Settings

Cassette 1

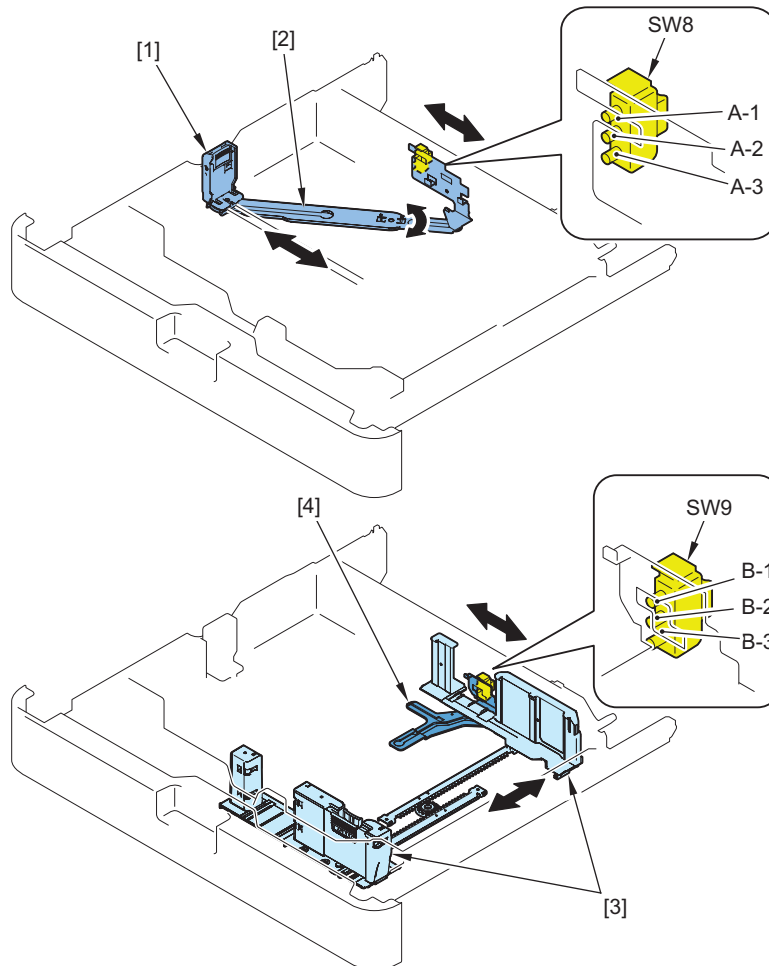
The paper size in Cassette 1 is detected by Cassette 1 Size Switch. The switch detects the width by combining ON and OFF of 3 microswitches comprising it.



No.	Name
[1]	Trailing edge guide plate
[2]	Side guide plate
SW6	Cassette 1 Size Switch

Cassette 2

The paper size in Cassette 2 is automatically detected by Cassette 2 Size Switches A/B by adjusting the position of the guide plate. Each switch detects the width by combining ON and OFF of 3 microswitches comprising it. Cassette 2 Size Switch B detects the width and Cassette 2 Size Switch A detects the length.



No.	Name
[1]	Trailing edge guide plate
[2]	Link Arm
[3]	Side guide plate
[4]	Side detection plate
SW8	Cassette 2 Size Switch A
SW9	Cassette 2 Size Switch B

■ Cassette Detection

Cassette is detected by the Cassette Size Switch. When none of the following microswitches of the Cassette Size Switch is pressed, "no cassette" is detected.

- Cassette 1: Cassette 1 Size Switch (SW6)
- Cassette 2: Cassette 2 Size Switch B (SW9)

■ Paper Detection

Overview

The paper level and presence/absence of paper in cassettes are detected by the following sensors.

Paper Sensor

It detects the presence/absence of paper in cassettes.

Paper Surface Sensor

It detects whether the Paper Surface in a cassette has been raised to the position where the paper can be picked up by the Lifter Control.

Once the Paper Surface is detected (the lift up action stops), it displays the paper level based on the detection status of the Paper Level Sensor.

Paper Level Sensor

It is installed in the Lifter Unit to detect the paper level in a cassette.





It estimates the timing when the paper level falls below 66% by calculating the rotation time of the Cassette 1,2 Lifter Motor (M40).

The Paper Level Sensor detects the paper level and notifies when it falls below 10%.

The paper level is displayed in four levels in the Control Panel.

The detection status of the sensors in each level is described below.

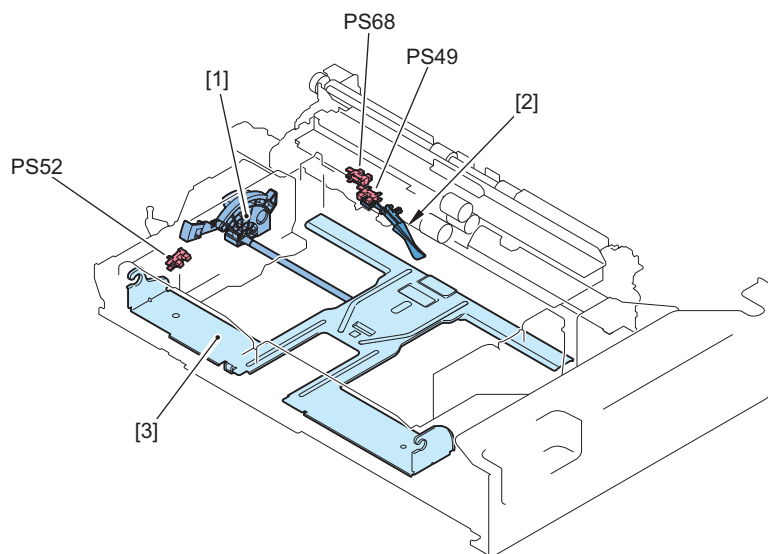
Paper Level Indication and Sensors Detection Status

Paper level	Level	Paper Level Sensor A	Paper Sensor	Paper Surface Sensor
	100 to 66%	OFF	ON	ON
	66 to 10%	OFF	ON	ON
	10 to 0%	ON	ON	ON
	0%	-	OFF	ON

Related service mode

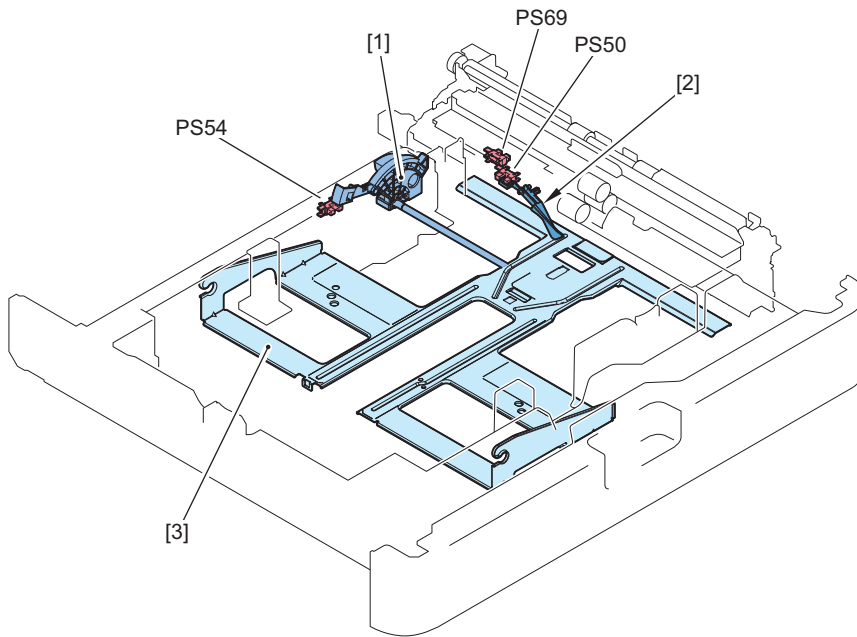
- Adjustment of cassette remaining amount detection threshold value
 COPIER > ADJUST > CST-ADJ > CST-VLM1
 COPIER > ADJUST > CST-ADJ > CST-VLM2
 COPIER > ADJUST > CST-ADJ > CST-VLM3
 COPIER > ADJUST > CST-ADJ > CST-VLM4

Cassette 1



No.	Name
[1]	Lifter Gear
[2]	Paper Detection Lever
[3]	Lifting Plate
PS49	Cassette 1 Paper Sensor
PS52	Cassette 1 Paper Level Sensor A
PS68	Cassette 1 Paper Surface Sensor

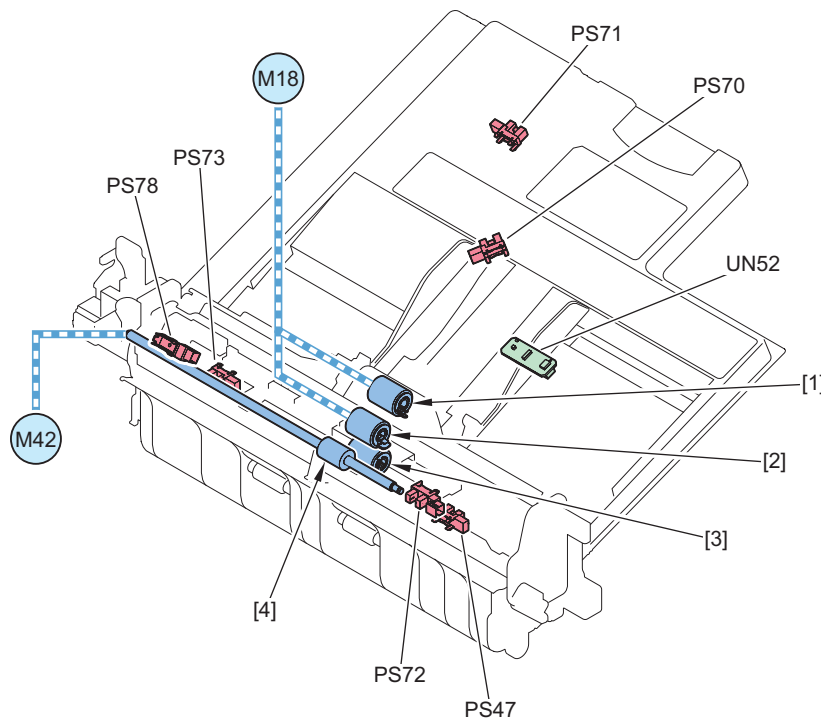
Cassette 2



No.	Name
[1]	Lifter Gear
[2]	Paper Detection Lever
[3]	Lifting Plate
PS50	Cassette 2 Paper Sensor
PS54	Cassette 2 Paper Level Sensor A
PS69	Cassette 2 Lifter Sensor

Multi-purpose Tray Pickup Assembly

■ **Parts / Drive Configuration**



No.	Name	No.	Name
[1]	MP Pickup Roller	PS47	Multi-Purpose Tray Paper Sensor
[2]	MP Feed Roller	PS70	Multi-purpose Tray Paper Length Sensor 1
[3]	MP Separation Roller	PS71	Multi-Purpose Tray Paper Length Sensor 2
[4]	Multi-purpose Tray Pullout Roller	PS72	Multi-Purpose Tray Pullout Sensor
M18	Multi-Purpose Pickup Motor	PS73	Multi-Purpose Tray HP Sensor
M42	Cassette 1 Pullout Motor	PS78	Multi-purpose Tray Pickup Roller HP Sensor
		UN52	Multi-Purpose Tray Width Sensing PCB

■ Multi-purpose Tray Pickup Control

Rotation of the Multi-Purpose Pickup Motor feeds the paper set on the Multi-purpose Tray to the Multi-purpose Tray Pullout Roller. The MP Pickup Roller and the MP Feed Roller are driven by the Multi-Purpose Pickup Motor (M18) while the Multi-purpose Tray Pullout Roller is driven by the counterclockwise rotation of the Cassette 1 Pullout Motor (M42).

Multi-purpose Tray Pickup HP Sensor Error

When an error in the Multi-Purpose Pickup Motor (M18) or the Multi-Purpose Tray HP Sensor (PS73) is detected, "no paper" is displayed for the Multi-purpose Tray pickup, and an alarm is issued.

While an alarm has occurred, the Multi-Purpose Tray cannot be used.

<Related alarm codes>

04-0007: Multi-purpose Tray Pickup HP Sensor Error

Multi-purpose Tray pickup retry error

Pickup retry is executed when a delay jam is detected by the Multi-Purpose Tray Pullout Sensor (PS72).

If pickup fails for the specified number of times, an alarm is notified.

<Related alarm codes>

04-0017: Multi-purpose Tray pickup retry error

■ Multi-purpose Tray Paper Detection

Paper presence/absence on the Multi-Purpose Tray is detected by the Multi-Purpose Tray Paper Sensor (PS47).

■ Multi-purpose Tray Automatic Size Detection/title

Size detection is performed to paper set in the Multi-purpose Tray, and paper size is determined according to the setting of Paper Size Group for Auto Recognition in Drawer (A/B size, Inch size, A/K size).

Result of size detection	Paper Size Group for Auto Recognition in Drawer*		
	A/B Size	Inch Size	A/K Size
A3	A3	12x18/11x17/No corresponding size	A3
B4	B4	11x17/No corresponding size	8K/No corresponding size
A4-R	A4-R	LGL/LTR-R/No corresponding size	A4-R
A4	A4	LGL/LTR-R/No corresponding size	A4
B5-R	B5-R	No corresponding size	No corresponding size
B5	B5	LTR/EXEC/LTR/EXEC/No corresponding size	K16/No corresponding size
A5R	A5R	STMT-R/No corresponding size	A5R
A5	A5	STMT/No corresponding size	A5
A6-R	A6-R	No corresponding size	A6-R
11x17	A3/B4/No corresponding size	11x17	A3/K8/No corresponding size
LGL	A4-R/No corresponding size	LGL	A4-R/No corresponding size
LTR	A4/B5/No corresponding size	LTR	A4/K16/No corresponding size
LTR-R	A4-R/No corresponding size	LTR-R	A4-R/No corresponding size
STMT	A5/No corresponding size	STMT	A5/No corresponding size
STMT-R	A5R/No corresponding size	STMT-R	A5R/No corresponding size

Result of size detection	Paper Size Group for Auto Recognition in Drawer*		
	A/B Size	Inch Size	A/K Size
SRA3	No corresponding size	No corresponding size	No corresponding size
12x18	A3/No corresponding size	No corresponding size	A3/No corresponding size
EXEC	B5/No corresponding size	EXEC	K16/No corresponding size
K8	B4/No corresponding size	11×17/No corresponding size	K8
K16	B5/No corresponding size	LTR/EXEC/No corresponding size	K16
K16R	A4-R/No corresponding size	LGL/LTR-R/No corresponding size	A4-R/No corresponding size
Postcard	Blank unless "Paper Settings" is performed due to non-standard size		
Envelope			
Custom size			

* : Set the paper size you want to perform automatic size detection in the Multi-purpose Tray in the following Setting/Registration.

- Settings/Registration > Preferences > Paper Settings > Paper Size Group for Auto Recognition in Drawer

NOTE:

The default settings by region are shown below.

Location	Default setting
US	Inch Size
CN	A/K Size
Other than above	A/B Size

Automatic size detection is performed by the following three sensors for the paper size of the Multi-purpose Tray.

- Multi-Purpose Tray Width Sensing PCB (UN52): detects the paper width
- Multi-Purpose Tray Paper Length Sensor 1 (PS70): detects the paper length
- Multi-Purpose Tray Paper Length Sensor 2 (PS71): detects the paper length

■ Long Length Paper

This machine supports long length paper.

Long length paper with 457.3 to 1200 mm in length can be used in the Multi-purpose Tray pickup.

CAUTION:

For copy jobs, paper with up to 630 mm in length can be used.

<Related service mode>

By setting the following service mode (Lv.2) to "1", the Long Original button appears on the Copy > Options screen, and long length paper becomes available for use.

- COPIER > OPTION > USER > MF-LG-ST

CAUTION:

When setting Long Original, paper cannot be delivered to the Third Delivery Outlet.

● Free Size Control

Free Size can be set for paper feed only in case of Multi-purpose Tray pickup.

Control description:

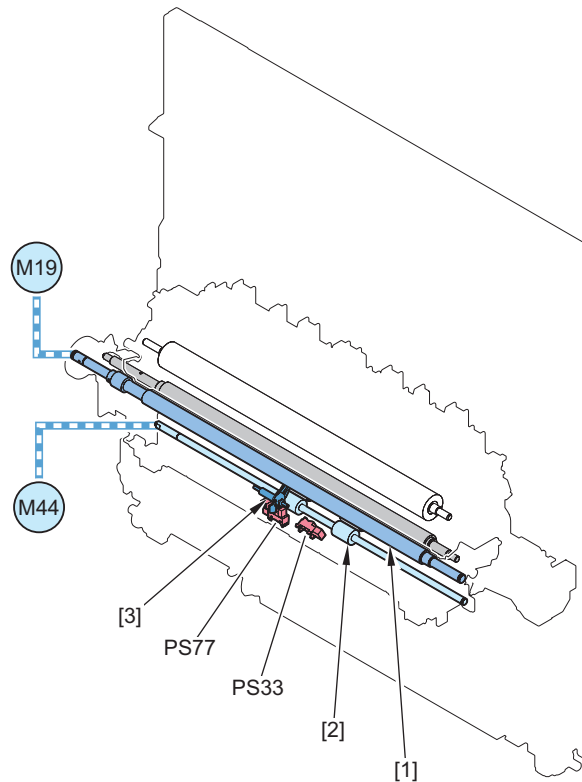
1. Measure the picked up paper.
2. Control the printing according to the paper length.

CAUTION:

Do not set paper of different sizes.

Fixing/Registration Assembly

Parts / Drive Configuration



No.	Name	No.	Name
[1]	Registration Roller	M19	Registration Motor
[2]	Pre-registration Roller	M44	Pre-Registration Motor
[3]	Registration Sensor Flag	PS33	Registration Sensor
		PS77	Transparency Registration Sensor

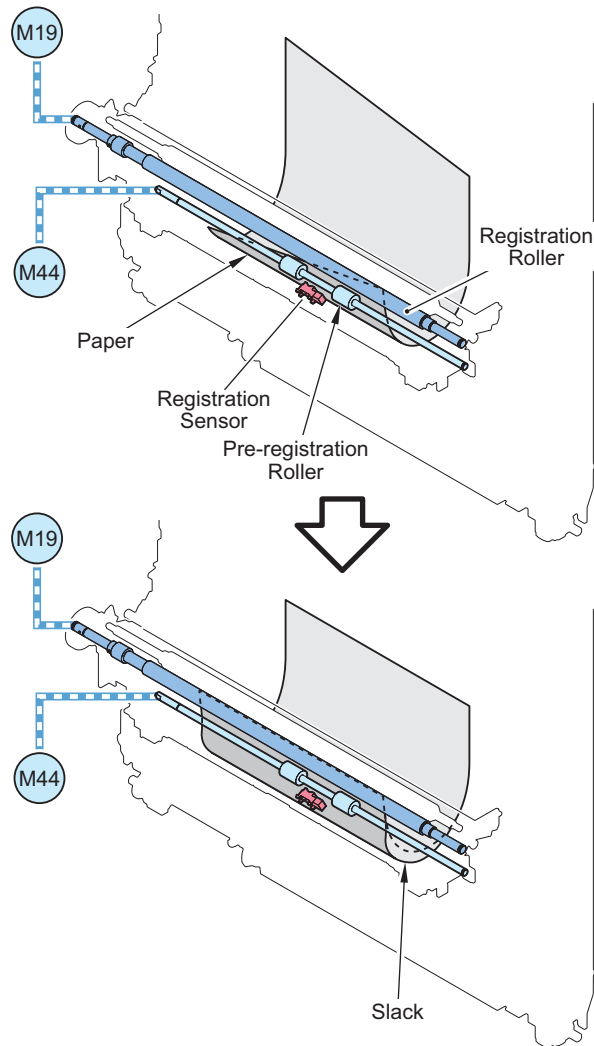
Registration Control

Purpose: To correct paper skew / align the leading edges of image and paper

After performing skew correction control, the leading edge of paper is aligned with the leading edge of image for feed control.

• Skew Correction Control

The paper leading edge runs into the stopped Registration Roller, thereby forming a slack (arch) in order to correct the skew.



• Non-stop Registration Control / Stop Registration Control

Depending on the paper feed condition, the following 2 controls are used as feed controls to align the leading edge of paper with the leading edge of image:

Non-stop Registration Control

The control to align the leading edge of paper with the leading edge of image by accelerating and decelerating the feed speed. Because paper is not stopped temporarily at the registration position, paper interval between sheets can be shortened to improve productivity.

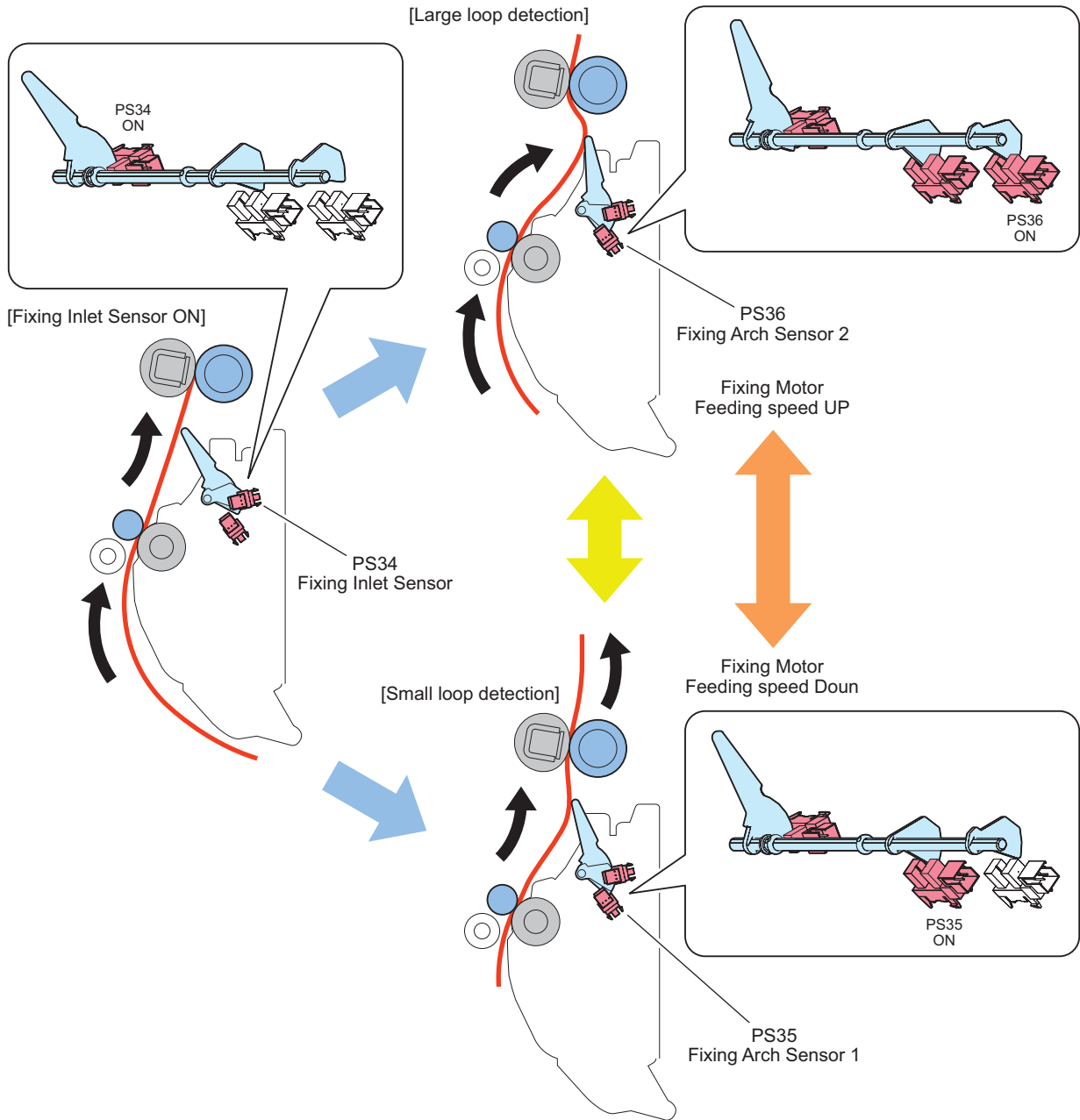
Stop Registration Control

This control is executed to stop paper using the Registration Roller, and resume feeding in accordance with the timing when the image reaches the secondary transfer processing.

• Fixing Arch Control

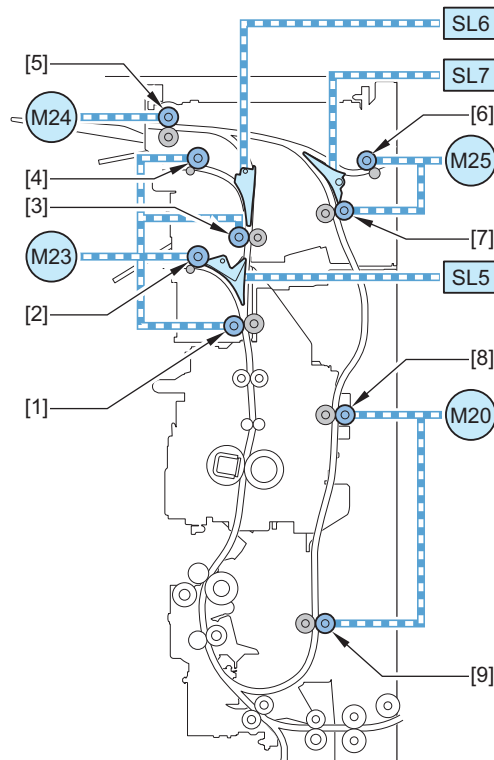
This control is used to monitor the slack (arch) status of paper, and depending on that status, switch the feed speed using the Fixing Motor in order to feed paper to the Fixing Unit always at an optimal status.

This is performed between the Secondary Transfer Unit and the Fixing Unit. When thermal expansion occurs on the Pressure Roller of the Fixing Unit, the circumference of the roller will increase. Consequently, even if the number of rotations is fixed, the feed speed on the fixing side becomes faster than the feed speed on the secondary transfer side. Therefore the Fixing Arch Sensors 1 and 2 are used to change the speed of the Fixing Motor depending on the status of the arch.



Duplex / Delivery Assembly

■ Parts / Drive Configuration



No.	Name	No.	Name
[1]	Vertical Path Roller 1	M20	Duplex Feed Motor
[2]	First Delivery Roller	M23	First & Second Delivery Motor
[3]	Vertical Path Roller 2	M24	Reverse Motor
[4]	Second Delivery Roller	M25	Third Delivery Motor
[5]	Duplex Reverse Roller	SL5	First Delivery Flapper Solenoid
[6]	Third Delivery Roller	SL6	Second Delivery Flapper Solenoid
[7]	Duplex Inlet Roller	SL7	Third Delivery Flapper Solenoid
[8]	Duplex Feed Upper Roller		
[9]	Duplex Feed Lower Roller		

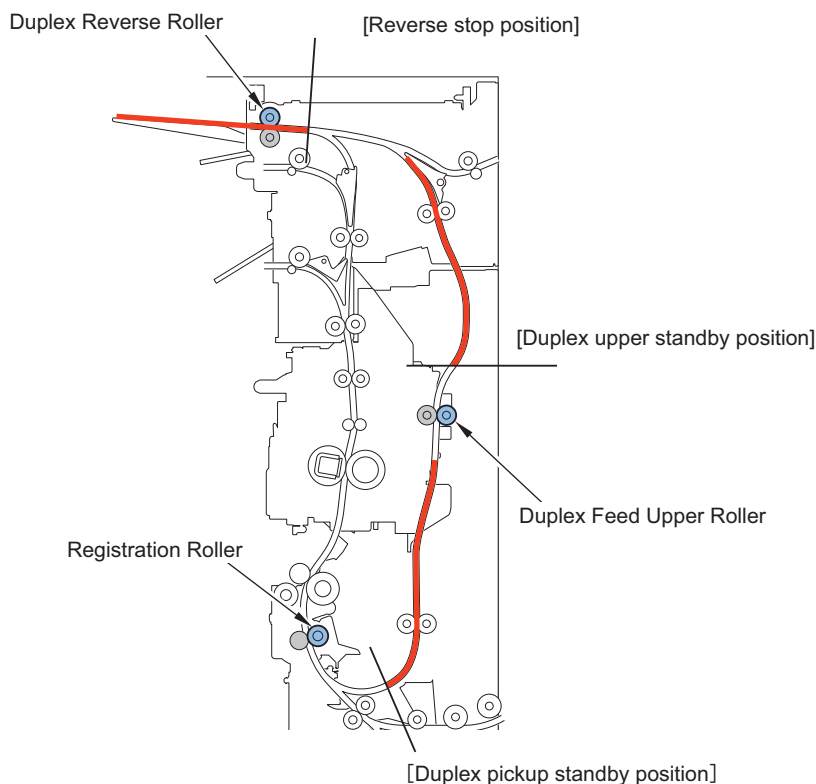
■ Duplex Control

● Duplex Feed Control

This machine reverses paper outside the machine using the Reverse Mouth. After stopping at the reverse stop position, the paper fed to the duplex path will be fed to the 2-sided pickup standby position.

● Duplex Standby Control

In the case of duplex feed, when there is paper at the downstream standby position, feeding of the 1st side is suspended.



■ Delivery Control

This machine executes face-down delivery (delivers paper to the Delivery Tray with the print side down).

When face-up delivery (paper is delivered to the Delivery Tray with the print side up) is specified for a job, an image is created on the 1st side, and then the paper is passed through the duplex path and delivered with no image created on the 2nd side.

● Delivery Acceleration Control

When the trailing edge of the paper reaches the downstream position of Fixing Inner Delivery Roller, the First & Second Delivery Motor (M23) and Reverse Motor (M24) speeds up and accelerates the feed speed.

The speed will subsequently return to the process speed to improve delivery alignment and to receive succeeding sheets.

● Jam Detection

Jam code list

Jam code	Sensor		XX		
	Name	Code	01: Delay jam	02: Stationary jam	0A: Power-on jam
XX01	Cassette 1 Pullout Sensor	PS55	Yes	Yes	Yes
XX02	Cassette 2 Pullout Sensor	PS56	Yes	Yes	Yes
XX03	Cassette 3 Pullout Sensor*2*3	PS101	Yes	Yes	Yes
XX04	Cassette 4 Pullout Sensor*2	PS102	Yes	Yes	Yes
XX05	Registration Sensor	PS33	Yes	Yes*1	Yes
XX06	Fixing Inlet Sensor	PS34	Yes	Yes	Yes
XX07	Inner Delivery Sensor	PS37	Yes	Yes	Yes
XX08	First Delivery Sensor	PS41	Yes	Yes	Yes
XX09	Second Delivery Sensor	PS42	Yes	Yes	Yes
XX0A	Reverse Sensor	PS39	Yes	Yes	Yes
XX0B	Third Delivery Sensor	PS43	Yes	Yes	Yes
XX0C	Duplex Inlet Sensor	PS40	Yes	Yes	Yes
XX0D	Duplex Paper Sensor	PS38	Yes	Yes	Yes
XX0E	Multi-Purpose Tray Pullout Sensor	PS72	Yes	Yes	Yes
XX0F	Deck Pickup Sensor*4	PS1	Yes	Yes	Yes
XX14	Pre-Reverse Sensor	PS57	Yes	Yes	Yes

Jam code	Sensor		XX		
	Name	Code	01: Delay jam	02: Stationary jam	0A: Power-on jam
XX15	Between-Cassette 1/2 Sensor	PS76	Yes	Yes	Yes

*1: Including size mismatch (large)

*2: When the 2-cassette Pedestal is installed

*3: When the High Capacity Cassette Pedestal is installed

*4: When the Side Paper Deck is installed

Other Jams

Jam code	Jam type
0190	A delay jam because paper did not come in time for the image
0D91	Size mismatch (small)
0B00	Door open

External Auxiliary System

Software Counter Control

This machine has software counters which count the number of prints/copies according to the job type. Various counters are displayed by pressing the Check Counter key on the Control Panel. The default counters for each region/location (model) are listed below.

Target	Number displayed for each counter (in service mode)/Item								Target region code
	Counter 1	Counter 2	Counter 3	Counter 4	Counter 5	Counter 6	Counter 7	Counter 8	
Japan model type1	Total 1	Total(Black1)	Copy (Full Color + Single Color/1)	Total A (Full Color + Single Color1)	*1	*1	*1	*1	JP
	101	108	232	149	000	000	000	000	
Japan model type2	Total 2	Copy (Full Color + Single Color/2)	Total A (Full Color + Single Color/2)	Copy (Black2)	Total A (Black2)	*1	*1	*1	JP
	102	231	148	222	133	000	000	000	
Taiwan model	Total 1	Total(Black1)	Copy + Print (Full Color / Large)	Copy + Print (Full Color / Small)	Total(Single Color1)	*1	*1	*1	TW
	101	108	401	402	118	000	000	000	
UL model type1	Total 1	Total(Black1)	Copy (Full Color + Single Color/ Large)	Copy (Full Color + Single Color/ Small)	Print (Full Color + Single Color/ Large)	Print (Full Color + Single Color/ Small)	*1	*1	US
	101	108	229	230	321	322	000	000	
UL model type2	Total2	Total(Black2)	Copy (Full Color + Single Color/ Large)	Copy (Full Color + Single Color/ Small)	Print (Full Color + Single Color/ Large)	Print (Full Color + Single Color/ Small)	*1	*1	US
	102	109	229	230	321	322	000	000	
General model	Total 1	Total(Black1)	Copy + Print (Full Color / Large)	Copy + Print (Full Color / Small)	Total(Single Color1)	Total 1 (2-Sided)	*1	*1	SG/KO/CN
	101	108	401	402	118	114	000	000	
UK model type1	Total (Black/ Large)	Total (Black/ Small)	Total (Full Color + Single Color/ Large)	Total (Full Color + Single Color/ Small)	Scan (Total 1)	Print (Total 1)	*1	*1	GB
	112	113	122	123	501	301	000	000	
240V UK model type2	Total 1	*1	*1	*1	*1	*1	*1	*1	GB
	101	000	000	000	000	000	000	000	
CA model	Total 1	Total(Black1)	Copy (Full Color + Single Color/ Large)	Copy (Full Color + Single Color/ Small)	Print (Full Color + Single Color/ Large)	Print (Full Color + Single Color/ Small)	*1	*1	AU
	101	108	229	230	321	322	000	000	
FRN model type1	Total (Black/ Large)	Total (Black/ Small)	Total (Full Color + Single Color/ Large)	Total (Full Color + Single Color/ Small)	Scan (Total 1)	Print (Total 1)	*1	*1	FR
	112	113	122	123	501	301	000	000	
FRN model type2	Total 1	*1	*1	*1	*1	*1	*1	*1	FR
	101	000	000	000	000	000	000	000	
GER model type1	Total (Black/ Large)	Total (Black/ Small)	Total (Full Color + Single Color/ Large)	Total (Full Color + Single Color/ Small)	Scan (Total 1)	Print (Total 1)	*1	*1	DE

Target	Number displayed for each counter (in service mode)/Item								Target region code
	Counter 1	Counter 2	Counter 3	Counter 4	Counter 5	Counter 6	Counter 7	Counter 8	
GER model type1	112	113	122	123	501	301	000	000	DE
GER model type2	Total 1	*1	*1	*1	*1	*1	*1	*1	DE
	101	000	000	000	000	000	000	000	
AMS model type1	Total (Black/Large)	Total (Black/Small)	Total (Full Color + Single Color/Large)	Total (Full Color + Single Color/Small)	Scan (Total 1)	Print (Total 1)	*1	*1	ES/SE/PT/NO/DK/FI/PL/HU/CZ/SI/GR/EE/RU/NL/SK/RO/HR/BG/TR
	112	113	122	123	501	301	000	000	
AMS model type2	Total 1	*1	*1	*1	*1	*1	*1	*1	ES/SE/PT/NO/DK/FI/PL/HU/CZ/SI/GR/EE/RU/NL/SK/RO/HR/BG/TR
	101	000	000	000	000	000	000	000	
ITA model type1	Total (Black/Large)	Total (Black/Small)	Total (Full Color + Single Color/Large)	Total (Full Color + Single Color/Small)	Scan (Total 1)	Print (Total 1)	*1	*1	IT
	112	113	122	123	501	301	000	000	
ITA model type2	Total 1	*1	*1	*1	*1	*1	*1	*1	IT
	101	000	000	000	000	000	000	000	
China model	Total 1	Total (Black/Large)	Total (Black/Small)	Total (Full Color + Single Color/Large)	Total (Full Color + Single Color/Small)	*1	*1	*1	CN
	101	112	113	122	123	000	000	000	

*1 : Hidden by default. Can be changed in service mode.

Description of symbols

- Large: Large size paper (when paper length exceeds 364 mm in paper feed direction)
- Small: Small size paper (when paper length is 364 mm or less in paper feed direction)
- Total: When a sheet of paper is delivered, the counter is advanced by 1
- 2-Sided: The counter is advanced by 1 for paper delivered in 2-sided mode
- Change the country/region code of CONFIG in COPIER > OPTION > FNC-SW > CONFIG
- Three-digit number in the counter column shows the setting value of the following service mode items.
COPIER > OPTION > USER > COUNTER1 to COUNTER8
- COUNTER 2 to COUNTER 8 can be changed in the following service mode.
COPIER > OPTION > USER
- The type of counter display can be switched between the former and new methods in the following service mode
COPIER > OPTION > USER > CNT-SW

Region code

Region code	Region	Region code	Region	Region code	Region
JP	Japan	ES	Spain	RU	Russia
US	United States	SE	Sweden	SK	Slovakia
GB	United Kingdom	PT	Portugal	RO	Romania
FR	France	NO	Norway	HR	Croatia
DE	Germany	DK	Denmark	BG	Bulgaria
IT	Italy	FI	Finland	TR	Turkey
AU	Australia	PL	Poland	TH	Thailand
SG	Singapore	HU	Hungary	VN	Vietnam
NL	Netherlands	CZ	Czech Republic	AR	Argentina
KR	Korea	SI	Slovenia	IN	India
CN	China	GR	Greece	TW	Taiwan

Region code	Region	Region code	Region	Region code	Region
EE	Estonia				

■ Count-up timing

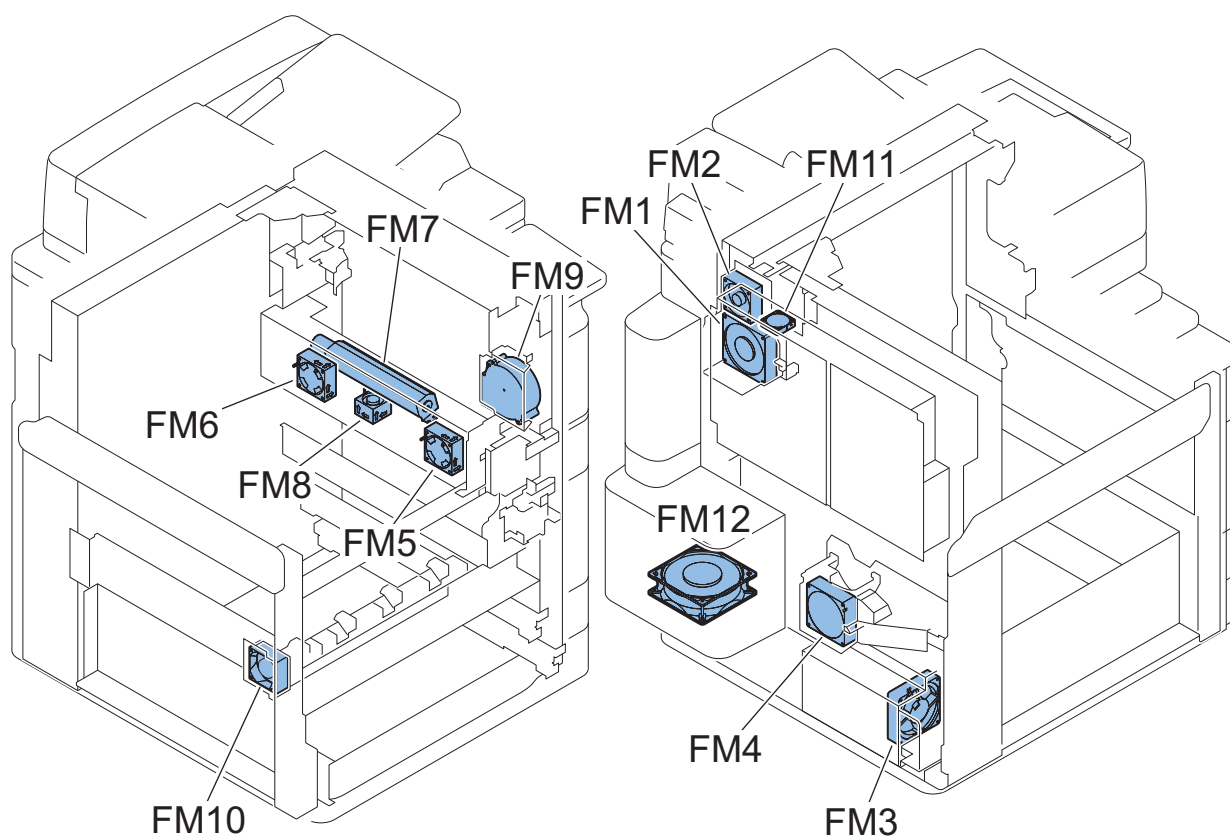
Count-up timing differs according to the following:

- Print mode (1-sided/2nd side of 2-sided print, 1st side of 2-sided print)
- Delivery position (Finisher)

Delivery position			Print mode	
			1-sided print/2nd side of 2-sided print	1st side of 2-sided print
Count-up timing				
1	Host machine	First Delivery Tray	First Delivery Sensor (PS41)	Duplex Paper Sensor (PS38)
		Second Delivery Tray	Second Delivery Sensor (PS42)	
		Third Output Tray	Third Delivery Sensor (PS43)	
2	When the Finisher is installed	Finisher: Inlet Sensor (S1)		

● Fan Control

■ Location of Fans

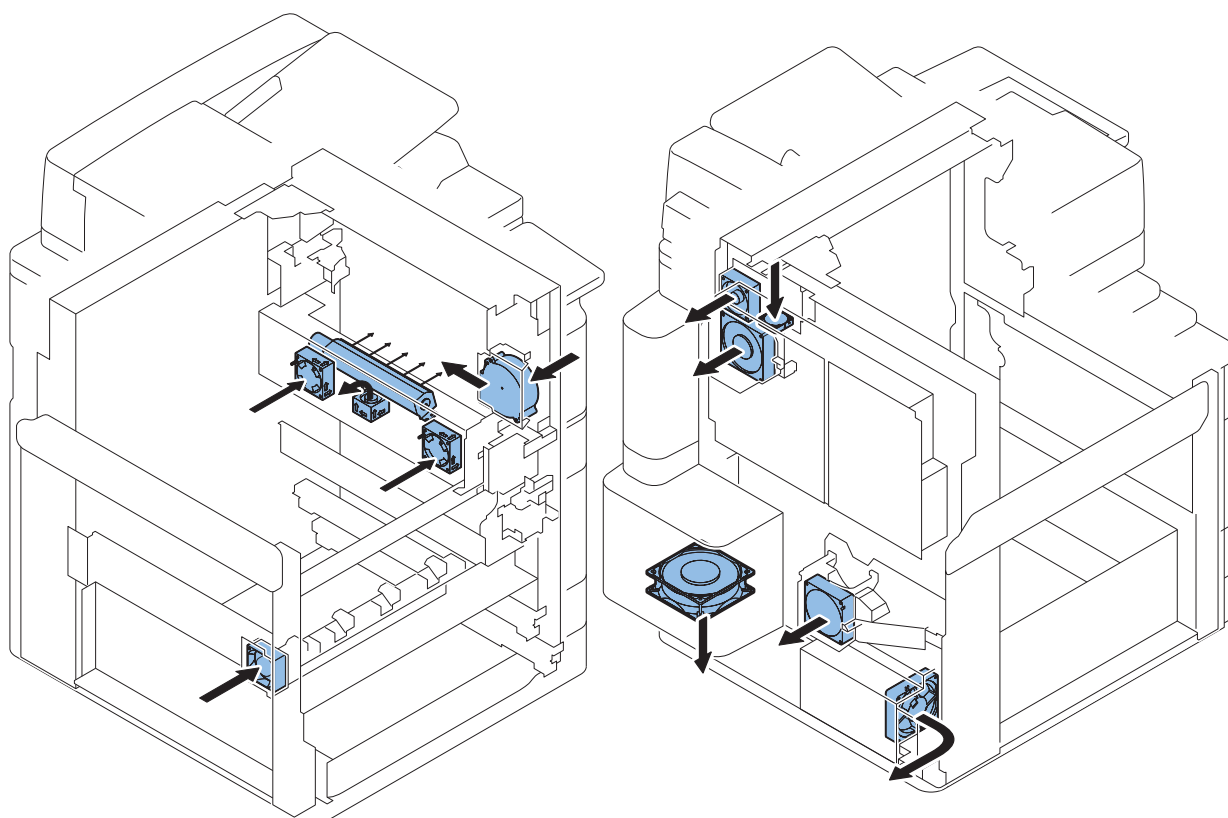


Circuit designation	Name	Role	Error/alarm code
FM1	Fixing Heat Exhaust Fan 1	To exhaust heat around the Fixing Assembly	E805-0000
FM2	Fixing Heat Fan 2	To exhaust heat around the Fixing Assembly	E805-0001
FM3	Power Supply Cooling Fan	To cool power supply	E804-0000
FM4	Process Cartridge Fan (Rear)	To exhaust heat around the Process Cartridge	E807-0000
FM5	Fixing Cooling Fan (Front)	To cool the Fixing Assembly	-

Circuit designation	Name	Role	Error/alarm code
FM6	Fixing Cooling Fan (Rear)	To cool the Fixing Assembly	-
FM7	Delivery Fan 1	To cool the paper passing the Delivery Assembly	E806-0000
FM8	Secondary Transfer Exhaust Fan	To exhaust air around the Pre-secondary Transfer Charging Assembly	E806-0002
FM9	Delivery Fan 2	To cool the paper passing the Delivery Assembly	E806-0001
FM10	Process Cartridge Fan (Front)	To exhaust heat around the Process Cartridge	E807-0001
FM11	Controller Fan	To cool the Main Controller PCB	E880-0003
FM12	Rear Exhaust Fan *1	To exhaust air in rear of the host machine.	-

*1: Mounted only on machines for EUR.

Airflow



Operation

Fan	Warm-up rotation	Standby	At the start of a job	During a job	After a job	ERR/JAM	Reader operation	Sleep
Fixing Exhaust Fan 1 (FM1)	Half speed	Stop	Half speed	Full speed	Half speed	Stop	Stop	Stop
Fixing Exhaust Fan 2 (FM2)	Half speed	Stop	Half speed	Full speed	Half speed	Stop	Stop	Stop
Process Cartridge Fan (Front) (FM10)	Full speed/half speed/stop*1					Stop	Stop	Stop
Process Cartridge Fan (Rear) (FM4)						Stop	Stop	Stop
Power Supply Cooling Fan (FM3)	Full speed	Half speed	Full speed	Full speed	Full speed	Half speed	Half speed	Stop

Fan	Warm-up rotation	Standby	At the start of a job	During a job	After a job	ERR/JAM	Reader operation	Sleep
Fixing Cooling Fan (Front) (FM5)	Full speed/half speed/stop*2					Stop	Stop	Stop
Fixing Cooling Fan (Rear) (FM6)								
Delivery Fan 1 (FM7)	Stop	Stop	Stop	Full speed/ half speed/ stop*2	Stop	Stop	Stop	Stop
Delivery Fan 2 (FM9)								
Secondary Transfer Exhaust Fan (FM8)								
Rear Exhaust Fan (FM12)*3	Half speed	Stop	Half speed	Full speed	Half speed	Stop	Stop	Stop

*1: The status of the fan (full speed / half speed / stop) varies according to the condition detected by the Internal Temperature Sensor (UN22) and the Environment Sensor (UN50).

*2: The status of the fan (full speed / half speed / stop) varies according to the paper size.

*3: Mounted only on machines for EUR.

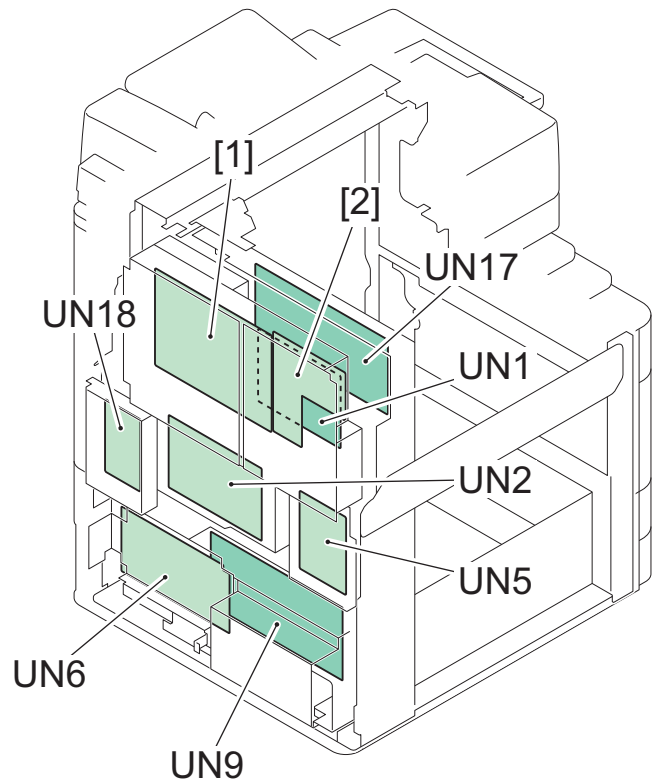
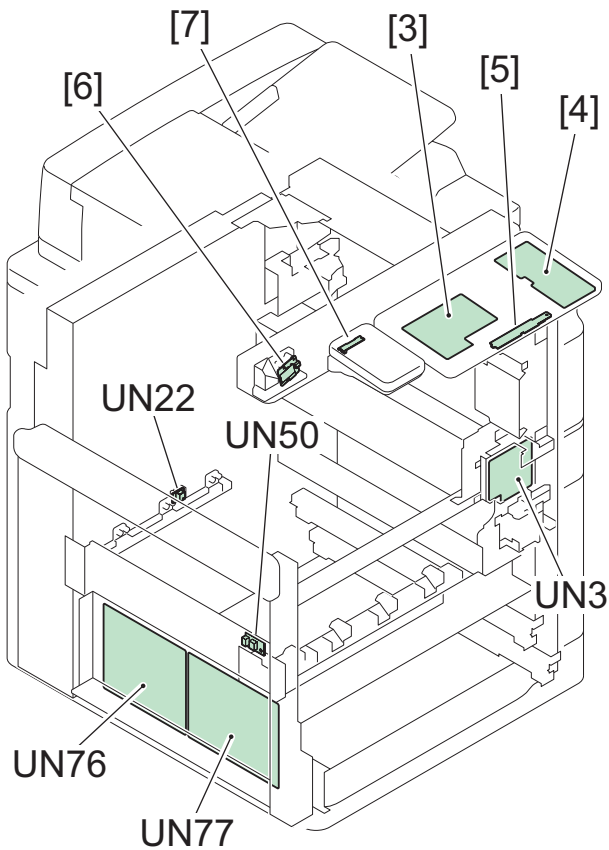
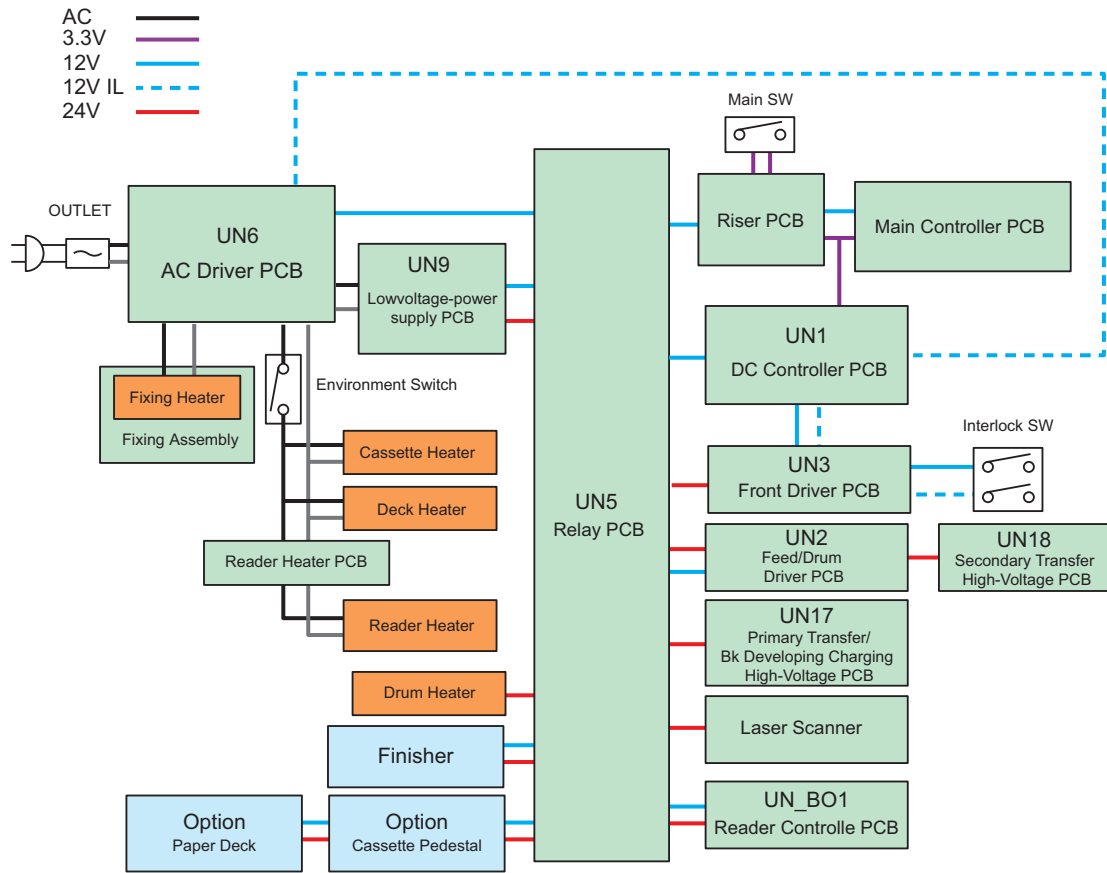
Environment Heater Control

Condition		Reader Heater	Drum Heater	Cassette Heater
Power OFF		ON	ON	ON
Deep Sleep		ON	ON	ON
Sleep Standby / Sleep 1		ON	ON	ON
Standby	External temperature is less than 20 deg C *1 (When Temperature Drops)	OFF	ON	ON
	External temperature is 22 deg C or more *1 (When Temperature Grows)	OFF	OFF	ON
During print operation		OFF	OFF	OFF

*1: External temperature can be checked in service mode (COPIER> DISPLAY> ANALOG> TEMP).

Power supply

Power Supply Configuration inside the Host Machine



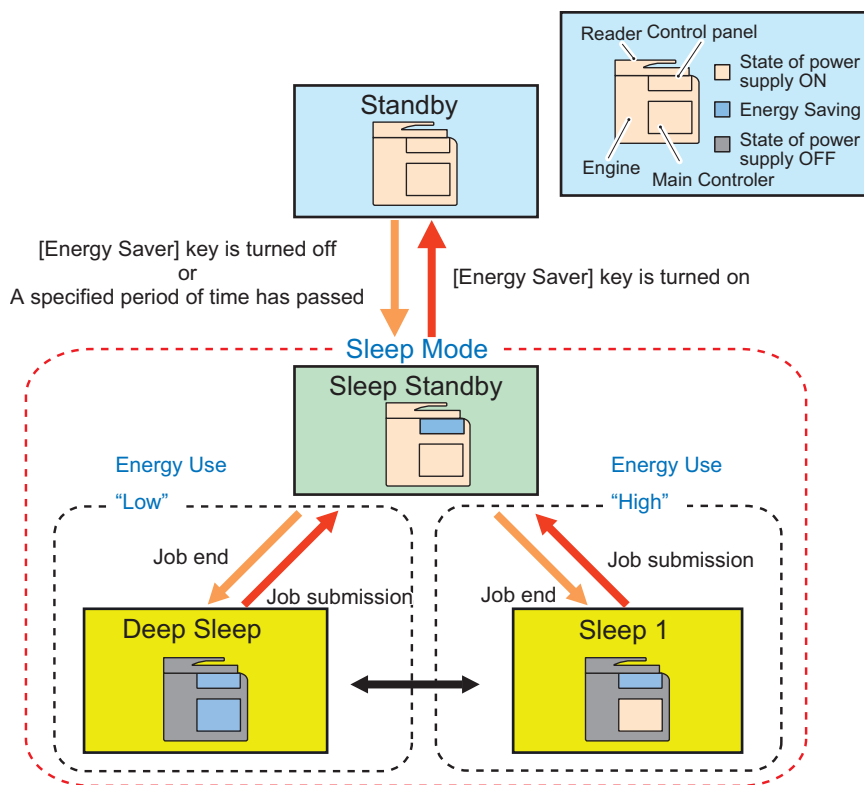
No.	Name
UN1	DC Controller PCB
UN2	Feed/Drum Driver PCB
UN3	Front Driver PCB
UN5	Relay PCB
UN6	AC Driver PCB
UN9	Low Voltage Power Supply PCB
UN17	Primary Transfer/Bk Developing Charging High-Voltage PCB
UN18	Secondary Transfer High-Voltage PCB
UN22	Internal Temperature Sensor
UN50	Environment Sensor
UN76	Developing High-Voltage PCB (YMC)
UN77	Charging High-Voltage PCB (YMC)
[1]	Main Controller PCB
[2]	Riser PCB
[3]	Control Panel CPU PCB
[4]	Control Panel KEY PCB
[5]	NFC PCB
[6]	Wireless LAN PCB
[7]	Device Port LED PCB

Power-saving Function

Overview

There are "Standby" and "Sleep" as the power supply mode of this machine.

Further, "Sleep" is divided into the following 3 modes: "Sleep Standby", "Sleep 1", "Deep Sleep".



* The time specified in Settings/Registration> Preferences> Timer/Energy Settings> Auto Sleep Time

Standby

The mode that the machine is running or can start operation immediately and all power is supplied in this mode.

Sleep Standby

The state that only the Control Panel is off while the power is supplied to all other parts.

Sleep 1

The state that the controller's all-night power is supplied while the Control Panel is off.

Deep Sleep

In this state, the Control Panel is off while only all-night power is supplied.

When any of the following "Conditions for Not Entering Deep Sleep" applies, transition to this mode does not occur.

■ Conditions for Not Entering Deep Sleep Mode (Check Items)

Settings of Settings/Registration

When the following settings are enabled in the [Settings/Registration] menu, the machine does not enter Deep Sleep mode. The corresponding items are shown below.

Preferences > Timer/Energy Settings

- Sleep Mode Energy Use > High
- Sleep Mode Energy Use > Low > Compensate for Network Comm.
- Within the time specified in Auto Sleep Time

Preferences > Network

- NetWare Settings > Use NetWare > ON
- AppleTalk Settings > Use AppleTalk > ON
- TCP/IP Settings > BMLinkS Settings > Use BMLinkS > ON (*1)
- IEEE 802.1X Settings > Use IEEE 802.1X > ON
- TCP/IP Settings > IPv4 Settings > IP Address Settings > Auto IP > ON
- TCP/IP Settings > DNS Settings > mDNS Settings > Use mDNS > ON
- Google Cloud Print Settings > Use Google Cloud Print > ON (*2)
- TCP/IP Settings > SIP Settings > NGN Settings > Use NGN > ON (*1)
- Direct Connection Settings > Use Direct Connection > ON

Function Settings > Receive/Forward

- Fax Settings > Select RX Mode > Fax/Tel (Auto Switch) (*1)
- Fax Settings > Remote RX > ON (*1)
- Fax Settings > Set Number Display > ON (*1)

Function Settings > Send

- Fax Settings > Modem Dial-in Settings > ON (*1)

Other Settings

- Volume Settings key > Fax Volume Settings > Incoming Fax Ring > ON (*1)

*1: This may not be displayed depending on the country/region, model, and configuration of the options.

*2: This must be already registered on Google Cloud Print in advance.

Hardware status

- It is connected to the coin vendor.

System Performance Status

- The system is running/communicating.

CAUTION:

The system is in a running/communicating state for approx. 10 minutes after startup in many cases.

Quick Startup

To realize faster startup, power configuration has been changed to always supply power to the AC Driver PCB and Main Controller PCB. Consequently, the Touch Panel can be operated after 4 seconds from turning ON the Main Power Switch. Even when the Main Power Supply Switch is OFF, power is supplied to the following PCBs:

	Quick startup setting ON	Quick startup setting OFF
AC Driver PCB	Power is supplied	Power is supplied
Low-voltage Power Supply PCB	Power is supplied	Power is supplied
Riser PCB	Power is supplied	Power is supplied
Main Controller PCB	Power is supplied	OFF

NOTE:

The quick startup function can be set from "Settings/Registration".

- Settings/Registration > Preferences > Timer/Energy Settings > Quick Startup Settings for Main Power
[On]: Quick startup is executed (default)
[Off]: Quick startup is not executed

Disconnect the power plug when performing work with the possibility to come in contact with the PCBs above. If a conductive material comes in contact with the PCB, short circuit may occur in the PCB, and may cause damage on it.

The following label is used at the place where attention is required.

**Conditions for not executing quick startup**

This machine does not execute quick startup if the following conditions are met at first startup after the power plug is connected to the outlet.

Connection status of the hardware

- A coin vendor is connected.

Either of the following network settings is set to "ON":

Settings/Registration > Preferences > Network

- AppleTalk Settings > Use AppleTalk > ON
- Select Wired/Wireless LAN > Wireless LAN
- Select Wired/Wireless LAN > Wired LAN + Wireless LAN
- Bluetooth Settings > ON

When turning ON the main power of the machine after turning OFF the main power in any of the conditions below

- The system is running/communicating.

Others

- More than 110 hours have elapsed after quick startup
- When turning ON the main power of the machine in 20 seconds after turning OFF the main power
- Startup after 8 hours or more have passed since the power of this product was turned OFF
- When turning ON the main power of the machine after turning OFF the main power from the Remote UI
- The next time the power is turned ON after occurrence of the error code
- The next time the power is turned ON after shifting to the service mode screen



Periodical Service

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Consumable Parts List

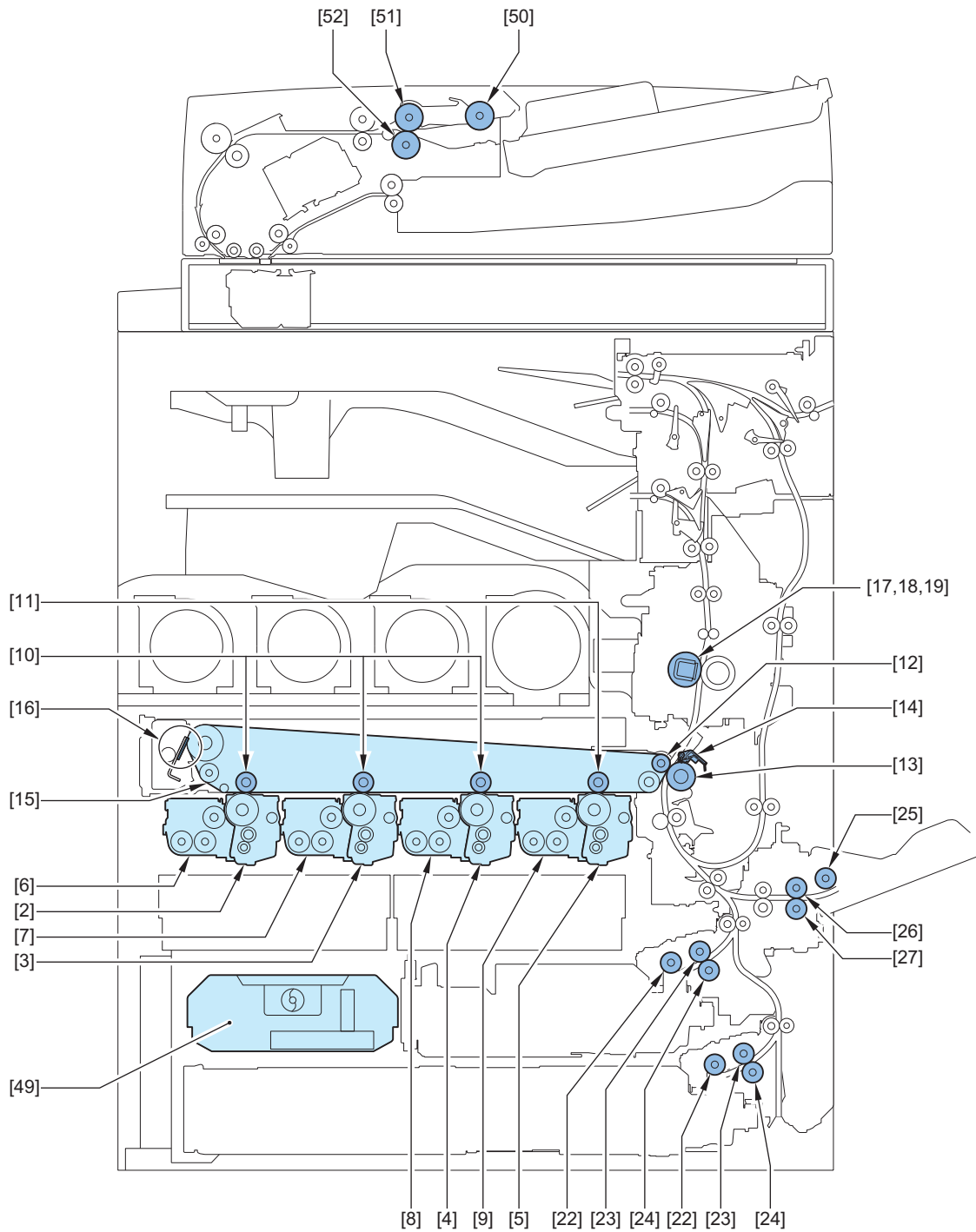
Host machine

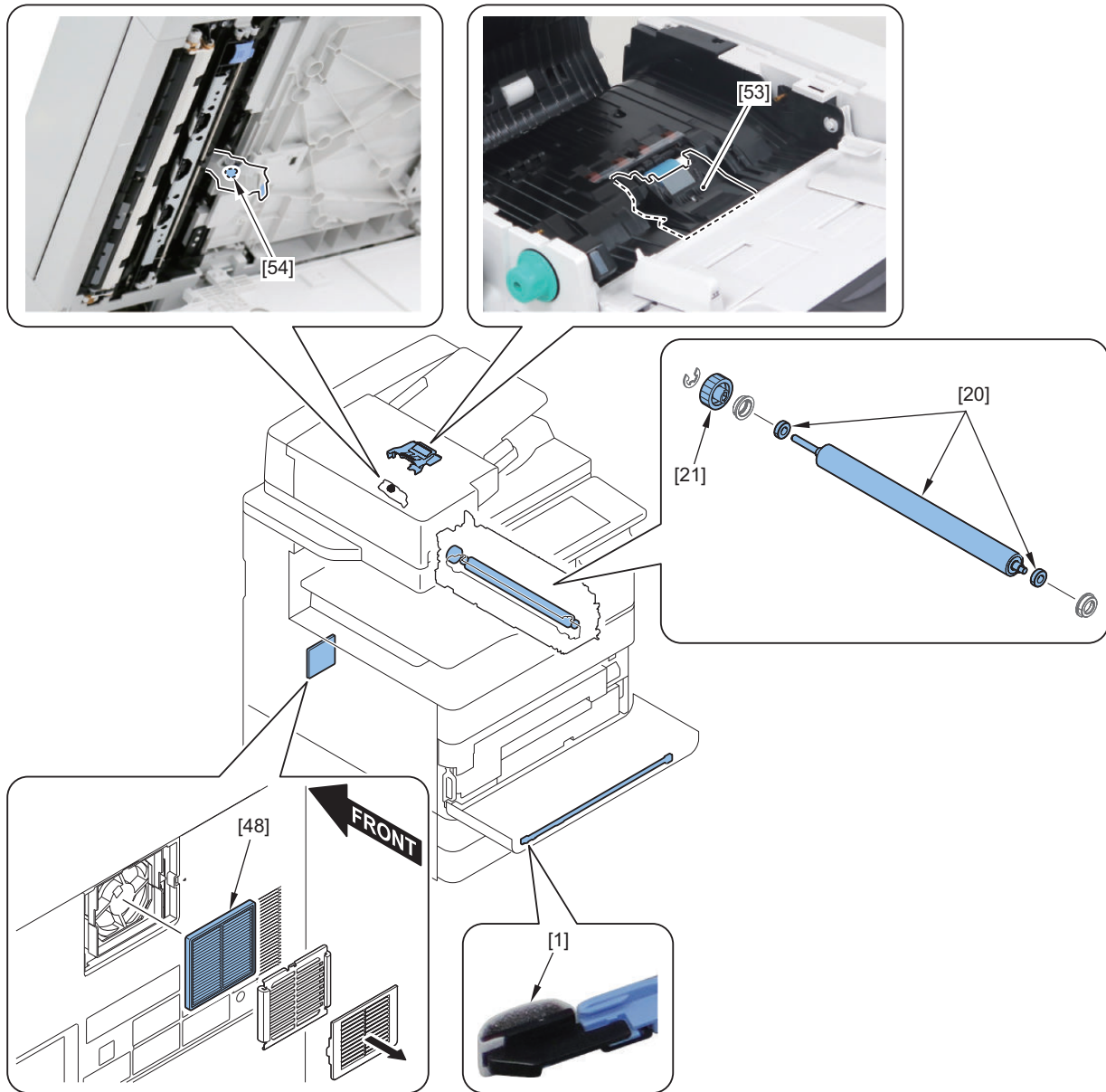
No.	Name	Parts number *1	Quantity	Estimated life *2	Work de- scrip- tion	Service mode	Alarm code	Remarks
						Parts counter COUNTER > DRBL-1/2	Replacement completion alarm	
1	Dustproof Glass Cleaning Pad	FL2-9476	1	150,000 pages	Re- place- ment	-	-	
2	Drum Unit (Y)	-	1	-	Re- place- ment	PT-DR-Y	43-0070	
3	Drum Unit (M)	-	1	-	Re- place- ment	PT-DR-M	43-0071	
4	Drum Unit (C)	-	1	-	Re- place- ment	PT-DR-C	43-0072	
5	Drum Unit (Bk)	-	1	-	Re- place- ment	PT-DRM	43-0073	
6	Developing Unit (Y)	FM1-N370	1	720,000 pages	Re- place- ment	DV-UNT-Y	43-0120	
7	Developing Unit (M)	FM1-N371	1	720,000 pages	Re- place- ment	DV-UNT-M	43-0121	
8	Developing Unit (C)	FM1-N372	1	720,000 pages	Re- place- ment	DV-UNT-C	43-0122	
9	Developing Unit (Bk)	FM1-N373	1	720,000 pages	Re- place- ment	DV-UNT-K	43-0123	
10	Primary Transfer Roller (YMC)	FC0-0257	3	720,000 pages	Re- place- ment	TR-ROLC	43-0358	
11	Primary Transfer Roller (Bk)	FC0-0257	1	720,000 pages	Re- place- ment	TR-ROLK	43-0293	
12	Secondary Transfer Inner Roller	FL0-4164	1	720,000 pages	Re- place- ment	2TR-INRL	43-0360	
13	Secondary Transfer Roller	FE4-8322	1	720,000 pages	Re- place- ment	2TR-ROLL	43-0359	Simultaneous re- placement of 2 parts
14	Transfer Separation Guide Unit	FM3-8893	1	720,000 pages	Re- place- ment	T/S-UNIT	43-0381	
15	ITB	FM1-N265	1	720,000 pages	Re- place- ment	TR-BLT	43-0006	
16	ITB Cleaning Blade	FM4-7246	1	360,000 pages	Re- place- ment	T-CLN-BD	43-0370	
17	Fixing Film Unit (100V)	FM1-N253	1	360,000 pages	Re- place- ment	FX-UP-FR	43-388	
18	Fixing Film Unit (120V)	FM1-N254						
19	Fixing Film Unit (230V)	FM1-N255						

No.	Name	Parts number *1	Quantity	Estimated life *2	Work de- scrip- tion	Service mode	Alarm code	Remarks
						Parts counter COUNTER > DRBL-1/2	Replacement completion alarm	
20	Fixing Pressure Roller Unit (Fixing Pressure Roller + Shaft Support)	FM1-N252	1	360,000 pa- ges	Re- place- ment	FX-LW-RL	FX-LW-RL	40-0398
21	27T Gear	FU2-1252	1	360,000 pa- ges	Re- place- ment	FX-LW-GR	FX-LW-GR	40-425
22	Cassette Pickup Roller	FL0-4002	2	500,000 sheets	Re- place- ment	C1-PU-RL / C2- PU-RL	43-0079	Cassettes 1 and 2 (one for each)
							43-0082	
							43-0085	
							43-0088	
							43-0574	
23	Cassette Feed Roller	FL0-2885	2	500,000 sheets	Re- place- ment	C1-FD-RL / C2- FD-RL	43-0080	
							43-0083	
							43-0086	
							43-0089	
							43-0573	
24	Cassette Sepalation Roller	FL0-1674	2	500,000 sheets	Re- place- ment	C1-SP-RL / C2- SP-RL	43-0081	
							43-0084	
							43-0087	
							43-0090	
							43-0575	
25	MP Pickup Roller	FL0-4002	1	500,000 sheets	Re- place- ment	M-PU-RL	M-PU-RL	40-0451
26	MP Feed Roller	FL0-4002	1	500,000 sheets	Re- place- ment	M-FD-RL	M-FD-RL	40-0077
27	MP Sepalation Roller	FL0-1674	1	500,000 sheets	Re- place- ment	M-SP-RL	M-SP-RL	40-0078
48	Toner Filter	FM1-P236	1	100,000 sheets	Re- place- ment	TN-FIL1	TN-FIL1	40-0482
49	Waste Toner Container	FM1-A606	1	1,030,000 images (equivalent to 259,000 pages)	Re- place- ment	WST-TNR	WST-TNR	11-0010
50	Pickup Roller	FL1-3120	1	80,000 sheets	Re- place- ment	DF-PU-RL	DF-PU-RL	40-0125
51	Feed Roller	FC0-9450	1	80,000 sheets	Re- place- ment	DF-FD-RL	DF-FD-RL	40-0091
52	Sepalation Roller	FC0-9631	1	80,000 sheets	Re- place- ment	DF-SP-RL	DF-SP-RL	40-0092
53	Pre-separation Unit	FM1-J766	1	80,000 sheets	Re- place- ment	DF-PR-PD	DF-PR-PD	40-0510
54	Stamp	FC7-5465	1	7,000 times	Re- place- ment	STAMP	-	-

*1: The parts number may be changed due to engineering change.

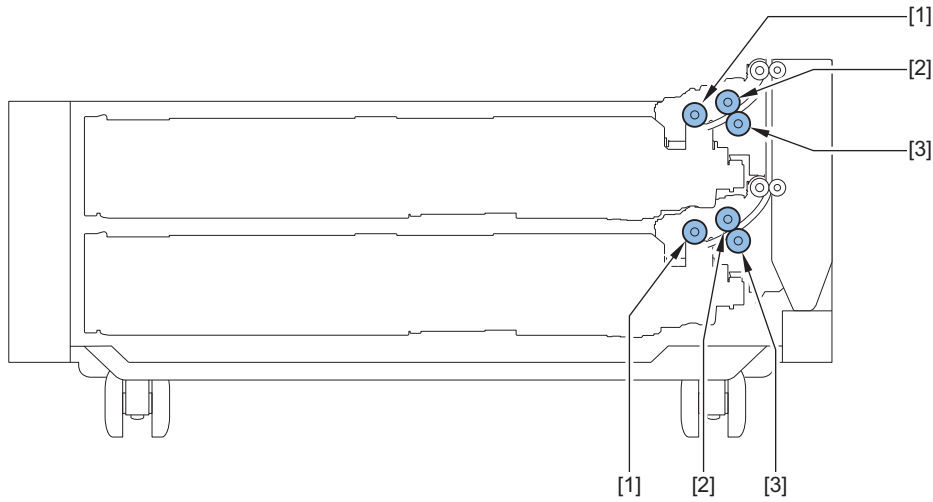
*2: All the values described in this column are estimated replacement timing in A4 size. The replacement timing is a reference value in the case of usage in general offices, and the actual value differs depending on the customer environment, operation conditions in the field, etc.





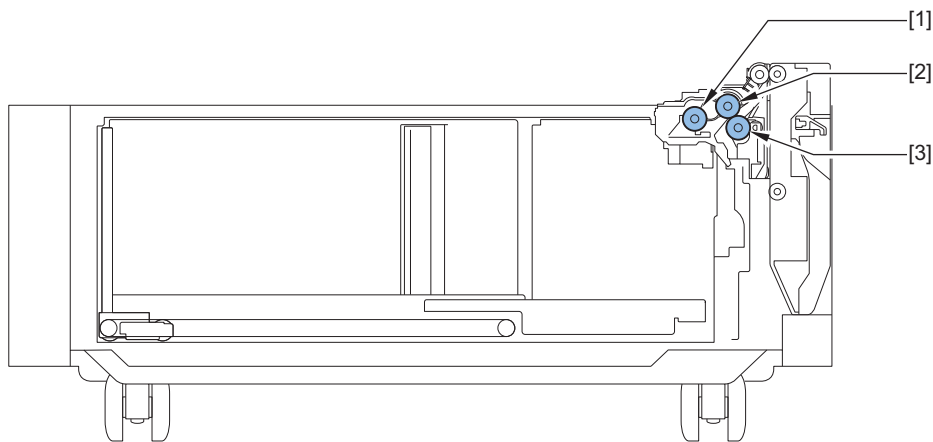
Cassette Feeding Unit-AM1

No.	Parts name	Parts number	Q'ty	Estimated life	Service Mode	Alarm Code	Remarks
					Parts counter (DRBL-2)	Replacement completion	
1	Cassette Pickup Roller	FL4-0762	2	500,000 sheets	C3-PU-RL C4-PU-RL	43-0085 43-0088	Replaced based on the number of actually One for each Cassette 3/4
2	Cassette Feed Roller	FL4-0763	2	500,000 sheets	C3-FD-RL C4-FD-RL	43-0086 43-0089	
3	Cassette Separation Roller	FL0-1674	2	500,000 sheets	C3-SP-RL C4-SP-RL	43-0087 43-0090	



High Capacity Cassette Feeding Unit-A1

No.	Parts name	Parts number	Q'ty	Estimated life	Service mode	Alarm code	Remarks
					Parts counter (DRBL-2)	Replacement completion	
2	High Capacity Cassette Feed Roller	FL4-0762	1	500,000 sheets	HCCPU-RL	43-0574	Replaced based on the number of actually fed paper
3	High Capacity Cassette Feed Roller	FL4-0763	1	500,000 sheets	HCCFD-RL	43-0573	
3	High Capacity Cassette Separation Roller	FL0-1674	1	500,000 sheets	HCCSP-RL	43-0575	



Paper Deck Unit-F1

No.	Parts name	Parts number	Q'ty	Estimated life	Parts counter (Service mode)		Remarks
					Intermediate item	Sub item	
1	Deck Pickup Roller	FL0-4500	1	1,000,000 sheets	DRBL-2	PD-PU-RL	Replaced based on the number of actually fed paper
2	Deck Feed Roller	FC0-9631	1	1,000,000 sheets	DRBL-2	PD-FD-RL	
3	Deck Separation Roller	FC0-9450	1	1,000,000 sheets	DRBL-2	PD-SP-RL	

Booklet Finisher-Y1

No.	Parts name	Parts number	Q'ty	Estimated life	Parts counter (Service mode)		Remarks
					Intermediate item	Sub item	
1	Stapler	FM1-L281	1	500,000 times	DRBL-2	FIN-STPR	
2	Stitcher Unit	FL0-6966	1	100,000 times	DRBL-2	SDL-STP	
3	Staple-free Staple Unit	FM1-K422	1	30,000 times	DRBL-2	FR-STPL	
4	Stacking Tray Torque Limiter	FL3-9778	2	200,000 times	DRBL-2	TRY-TQLM	
5	Paddle Unit	FE3-6957	4	1,000,000 times	DRBL-2	FIN-MPDL	
6	Stack Delivery Lower Roller Clutch	FK4-1312	1	1,000,000 times	DRBL-2	SW-RL-CL	
7	Escape Feed Clutch	FK4-1312	1	1,000,000 times	DRBL-2	ESC-CL	
8	Static Eliminator (Stacking Tray Delivery Assembly)	FL0-5052	1	1,000,000 sheets	DRBL-2	DL-STC	
9	Static Eliminator (Upper Escape Delivery Assembly)	FL0-5056	1	1,000,000 sheets	DRBL-2	TRY-STC1	
10	Static Eliminator (Saddle Delivery Assembly)	FL0-2207	2	1,000,000 sheets	DRBL-2	SDL-STC	

Staple Finisher-Y1

No.	Parts name	Parts number	Q'ty	Estimated life	Parts counter (Service mode)		Remarks
					Intermediate item	Sub item	
1	Stapler	FM1-L281	1	500,000 times	DRBL-2	FIN-STPR	
2	Staple-free Staple Unit	FM1-K422	1	30,000 times	DRBL-2	FR-STPL	
3	Stacking Tray Torque Limiter	FL3-9778	2	200,000 times	DRBL-2	TRY-TQLM	
4	Paddle Unit	FE3-6957	4	1,000,000 times	DRBL-2	FIN-MPDL	
5	Stack Delivery Lower Roller Clutch	FK4-1312	1	1,000,000 times	DRBL-2	SW-RL-CL	
6	Escape Feed Clutch	FK4-1312	1	1,000,000 times	DRBL-2	ESC-CL	
7	Static Eliminator (Stacking Tray Delivery Assembly)	FL0-5052	1	1,000,000 sheets	DRBL-2	DL-STC	
8	Static Eliminator (Upper Escape Delivery Assembly)	FL0-5056	1	1,000,000 sheets	DRBL-2	TRY-STC1	

Inner Finisher-H1

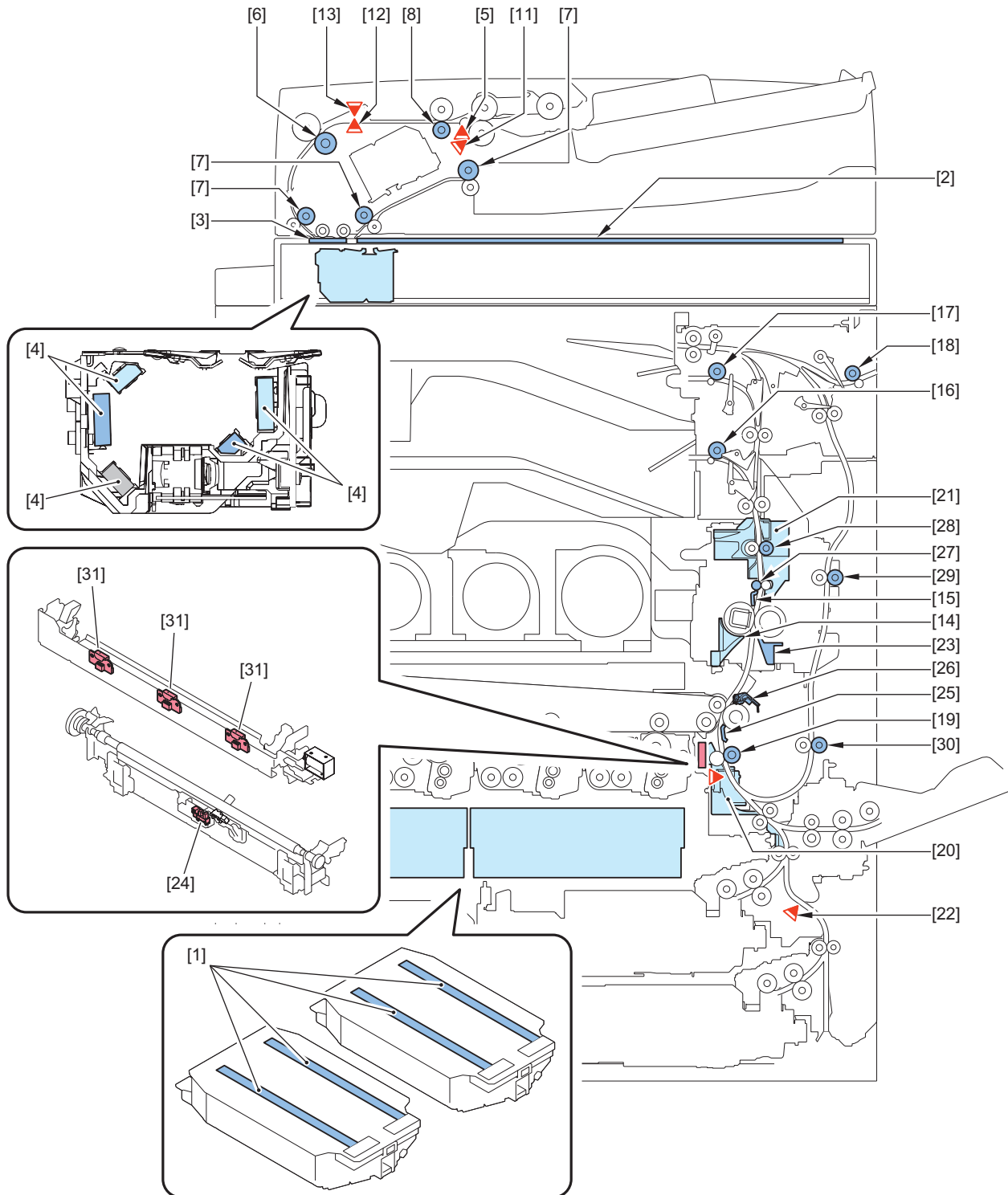
No.	Parts name	Parts number	Q'ty	Estimated life	Parts counter (Service mode)		Remarks
					Intermediate item	Sub item	
1	Stapler	FK4-1126	1	500,000 times	DRBL-2	FIN-STPR	
2	Staple-free Staple Unit	FM1-C429	1	30,000 times	DRBL-2	FR-STPL	

Cleaning/Check/Adjustment Locations

No.	Category	Name	Timing	Tasks	Cleaning method
1	Reader	Dustproof Glass	When Needed	Cleaning	Clean with the Dustproof Glass Cleaning Tool
2		Both sides of the Copy Board Glass (Large) (including the back side White Plate)	When Needed	Cleaning	
3		Both sides of the Document Reading Glass	When Needed	Cleaning	
4		Scanner Mirror (1st to 5th)	When Needed	Cleaning	
5	ADF	Post-Separation Sensor	When Needed	Cleaning	
6		Registration Roller	Performed as needed during a visit for parts replacement, etc.	Cleaning	
7		Lead Rollers 1 to 3		Cleaning	
8		Pullout Roller		Cleaning	
9		Rollers/ Slave Rollers		Cleaning	
10		ADF height adjustment	When Needed	Adjustment	
11		Original Sensor	When Needed	Cleaning	
12		Double Feed Sensor PCB (light-emitting side)	Performed as needed during a visit for parts replacement, etc.	Cleaning	
13	Double Feed Sensor PCB (light-receiving side)	Cleaning			
14	Host machine	Fixing Shutter Cover	When Needed	Cleaning	Clean when the Film Unit has been replaced*
15		Fixing Separation Guide			
16		First Delivery Roller	When Needed Performed as needed during a visit for parts replacement, etc.	Cleaning	Use lint-free paper moistened with alcohol for cleaning
17		Second Delivery Roller		Cleaning	Use lint-free paper moistened with alcohol for cleaning
18		Third Delivery Roller		Cleaning	Use lint-free paper moistened with alcohol for cleaning
19		Registration Roller		Cleaning	Use lint-free paper moistened with alcohol for cleaning
20		Pre-registration Guide Assembly		Cleaning	Use lint-free paper moistened with alcohol for cleaning
21		Fixing Delivery Guide		Cleaning	Use lint-free paper moistened with alcohol for cleaning
22		Between-Cassette 1/2 Sensor		Cleaning	Clean with a blower
23		Fixing Inlet Guide		Cleaning	Use lint-free paper moistened with alcohol for cleaning
24		Registration Sensor		Cleaning	Clean with a blower
25		Secondary Transfer Guide		Cleaning	Clean with dry lint-free paper
26		Secondary Transfer Separation Guide	Cleaning	Clean with dry lint-free paper	
27		Inner Delivery Roller	Inspection	After the check, clean with lint-free paper moistened with alcohol if necessary	
28		Fixing Delivery Roller	Inspection	After the check, clean with lint-free paper moistened with alcohol if necessary	
29	Duplex Feed Upper Roller	Inspection	After the check, clean with lint-free paper moistened with alcohol if necessary		
30	Duplex Feed Lower Roller	Inspection	After the check, clean with lint-free paper moistened with alcohol if necessary		

No.	Category	Name	Timing	Tasks	Cleaning method
31	Host machine	Registration Patch Sensor	When Needed Performed as needed during a visit for parts replacement, etc.	Inspection	Check at replacement of the drum. Paper dust: Clean with a blower Toner dirt: Wipe with a cotton swab moistened with water in one direction about 3 times.

* If it is soiled or foreign matters are attached, clean with alcohol and lint-free paper.





4

Parts Replacement and Cleaning

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Pickup Feed System.....	402

Preface

Outline

This chapter describes disassembly and reassembly procedures of the printer.

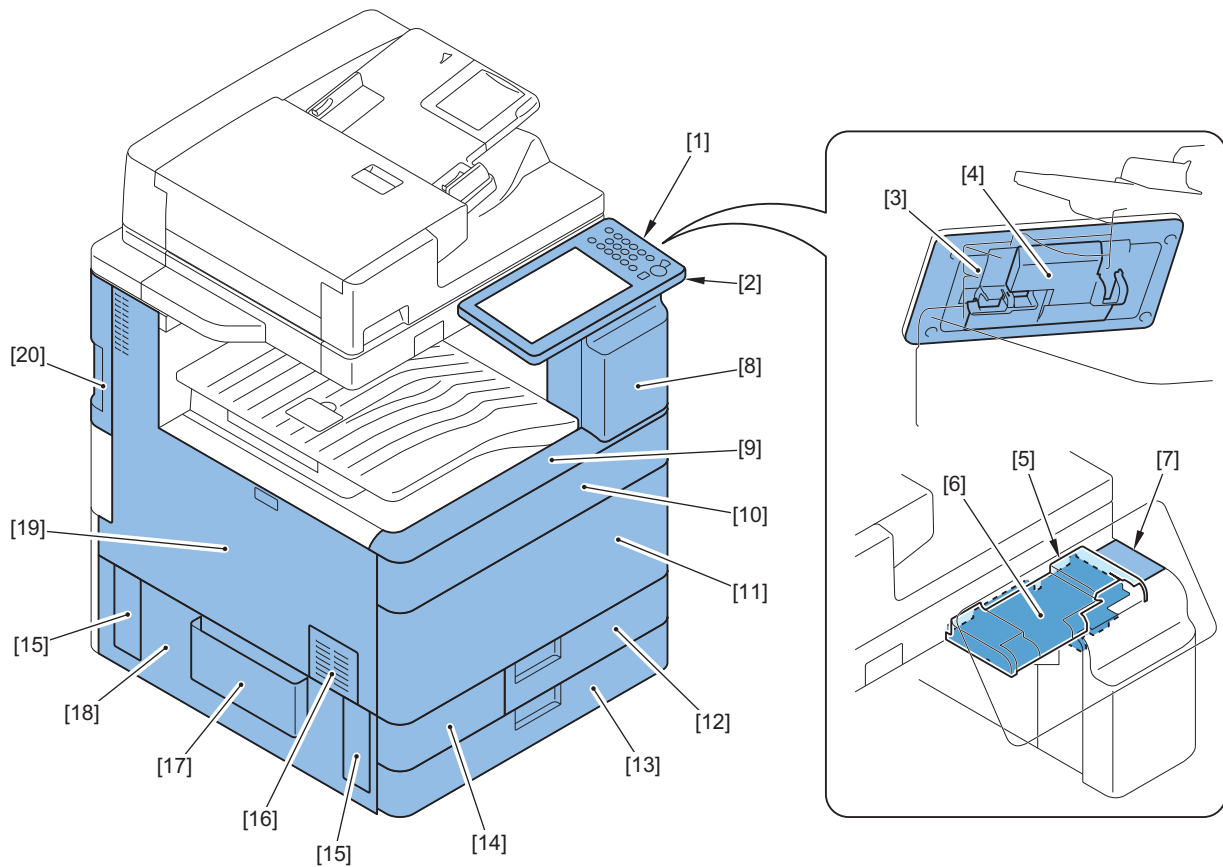
The service technician is to identify the cause of printer failures according to follow the disassembly procedures of each part to replace the defective parts or the consumable parts.

Note the following precautions when working on the printer.

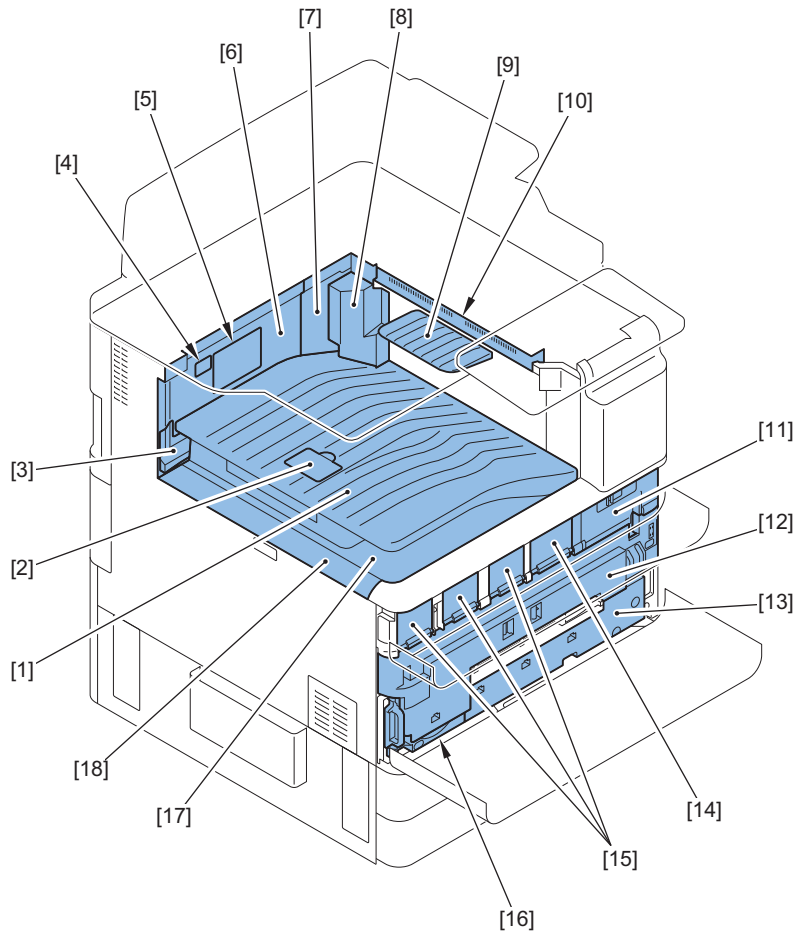
- Before disassembling or reassembling the printer, be sure to disconnect its power cord from the electrical outlet.
- When having removed the Drum Unit from the host machine before disassembling and assembling the machine, be sure to put the Photosensitive Drum in a protective bag even in a short period of time to prevent the adverse effect of light.
- Reassembling procedures are followed by the reverse of disassembly unless otherwise specified.
- Note the length, diameters, and locations of screws as you remove them. When reassembling the printer, be sure to use them in their original locations.
- Do not run the printer with any parts removed as a general rule.
- Ground yourself by touching the metal part of the printer before handling the PCB to reduce the possibility of damage caused by static electricity.
- When you replace the part that the rating plate or the product code label is attached, be sure to remove the rating plate or the product code label and put it to the new part.

Parts List

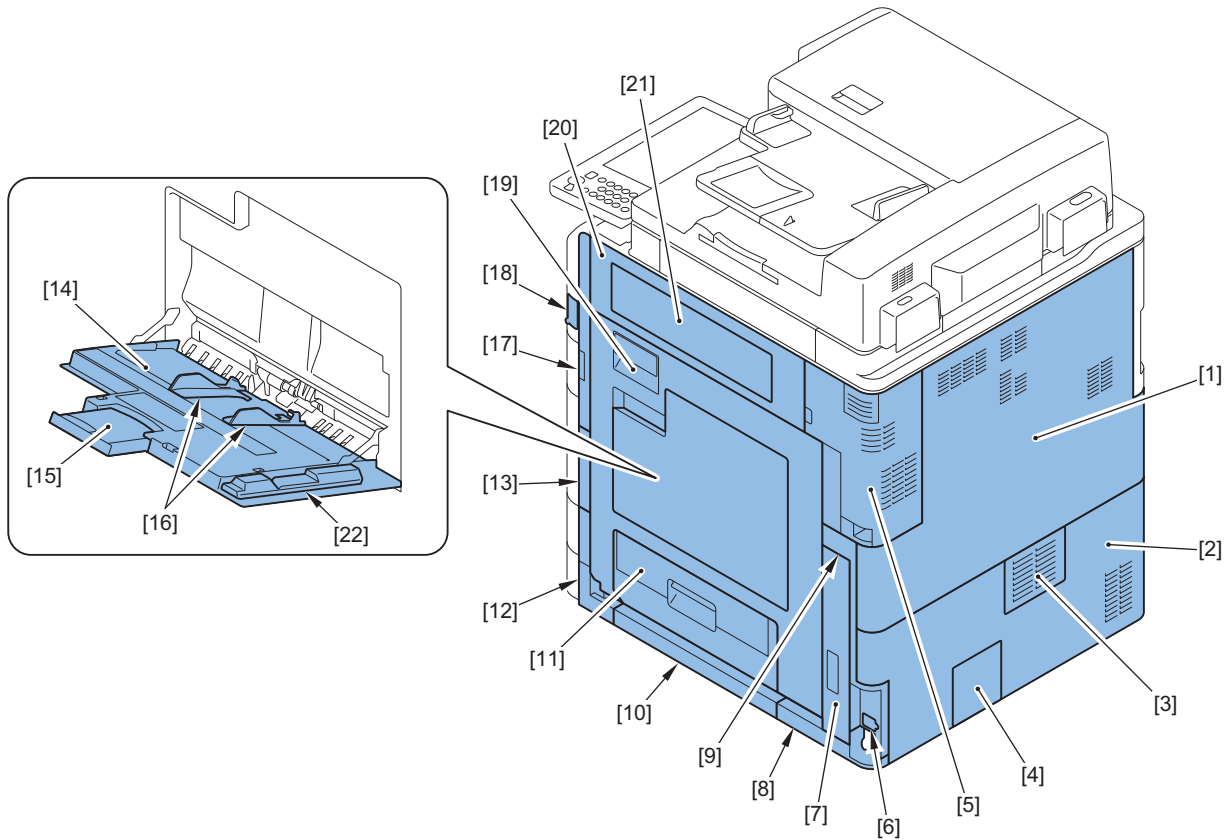
List of Cover



No.	Name	No.	Name
[1]	Control panel upper Cover	[11]	Front Cover
[2]	Control panel side Cover	[12]	Cassette 1
[3]	Control panel Lower Cover	[13]	Cassette 2
[4]	Control panel conector Cover	[14]	Waste toner Cover
[5]	Control panel upper arm Cover	[15]	Left Handle Cover
[6]	Control panel Lower arm Cover	[16]	Left Duct Cover
[7]	Lower Cover (small)	[17]	Service Book Holder
[8]	Right Front Upper Cover Unit	[18]	Left Lower Cover
[9]	Front Upper Cover Unit	[19]	Left Upper Cover
[10]	Toner Replacement Cover	[20]	Rear Upper Left Cover

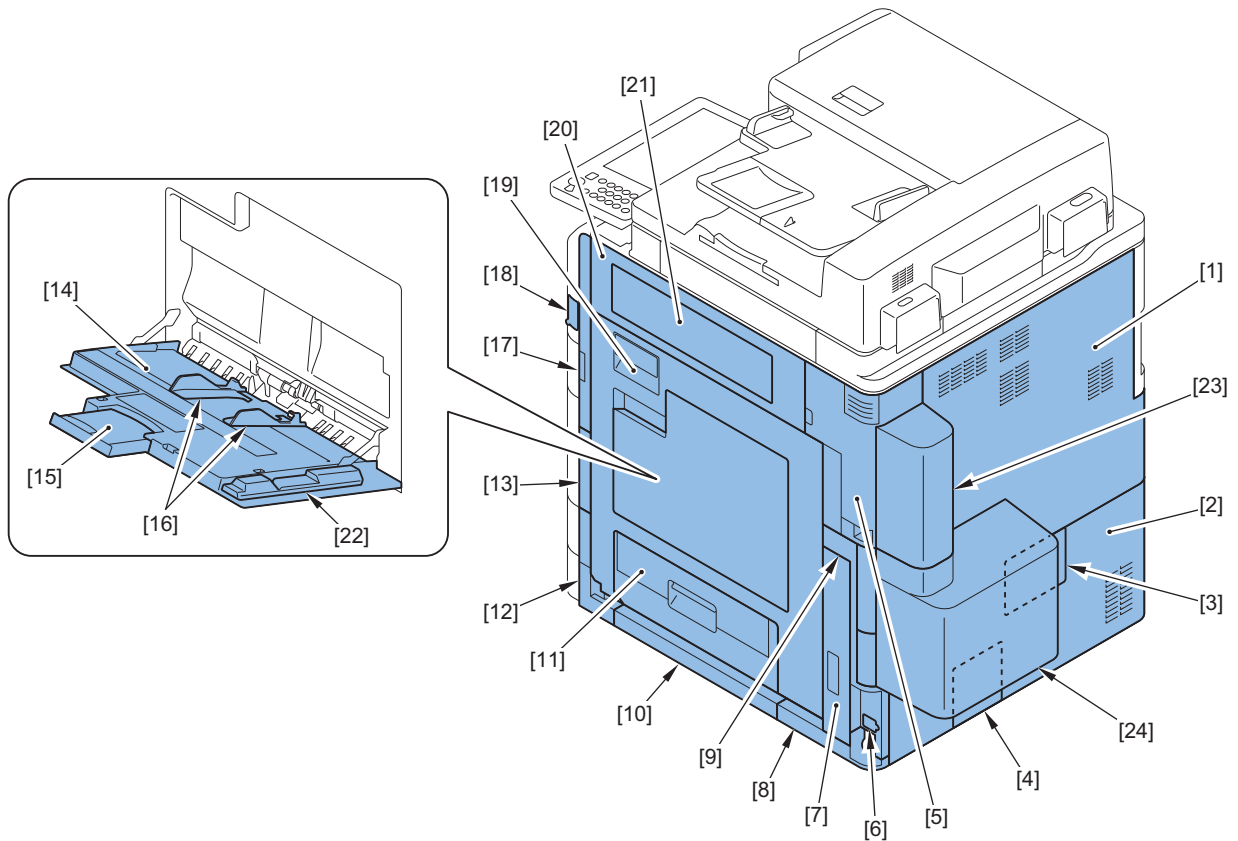


No.	Name	No.	Name
[1]	Inner Lower Cover Unit	[10]	Inner Output Cover
[2]	Pushing Stopper	[11]	Toner Bottel Right Inner Cover
[3]	Inner Delivery Cover (left rear)	[12]	ITB Cover
[4]	Delivery Frame	[13]	Process Unit Front Cover
[5]	Bias PCB Cover	[14]	Toner Bottle Exchange Door (Bk)
[6]	Inner Delivery Cover (rear)	[15]	Toner Bottle Exchange Door (Y/M/C)
[7]	Inner Delivery Cover (right rear)	[16]	Lock Pin Cover
[8]	Inner Delivery sensor Cover	[17]	Inner Delivery Middle Cover
[9]	Reverse Backend Guide	[18]	Inner Delivery Cover (Left)

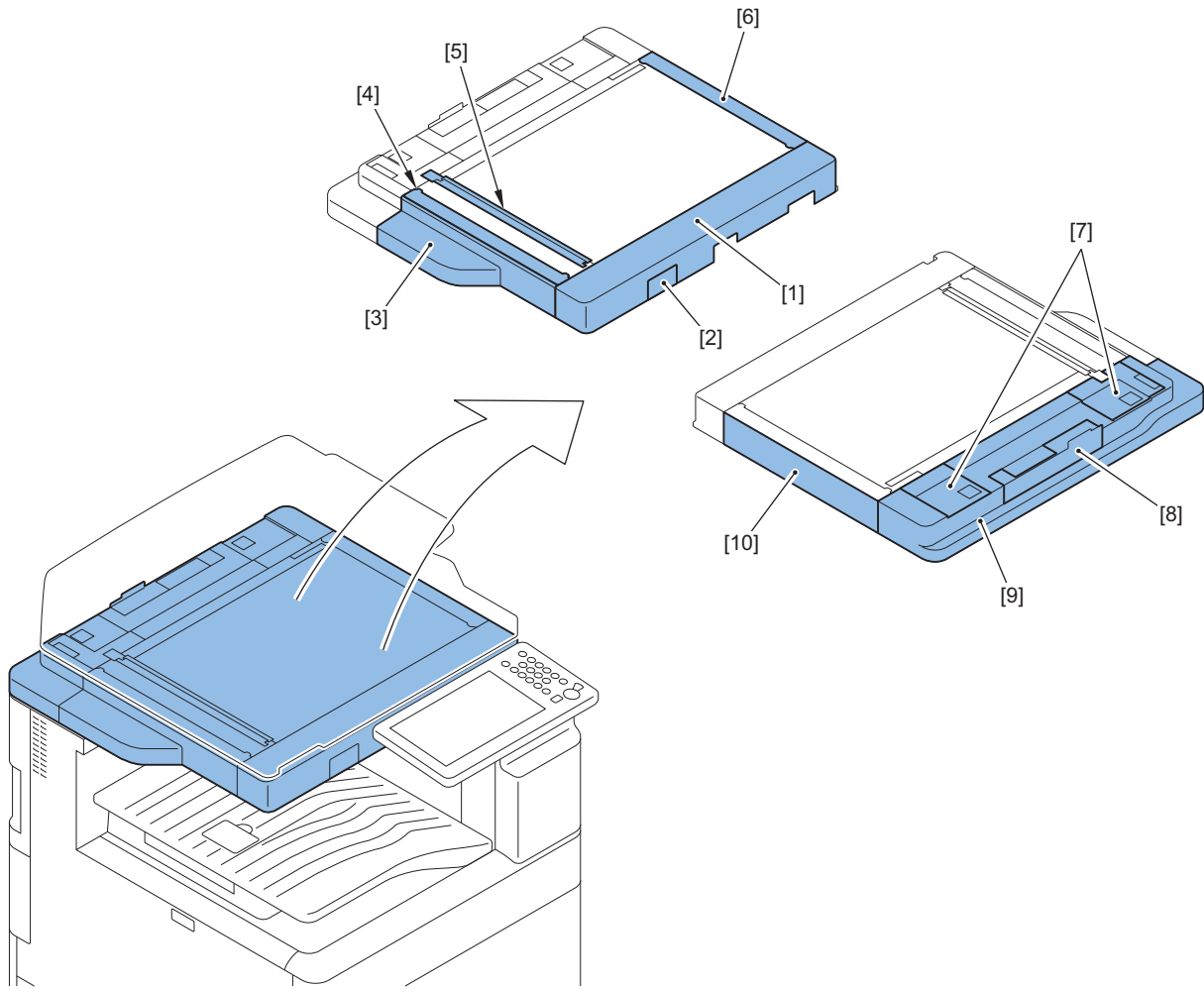


No.	Name	No.	Name
[1]	Rear Upper Cover	[12]	Right Front Cover
[2]	Rear Lower Cover	[13]	Right Handle Cover (Front)
[3]	Filter Cover	[14]	MP Pickup Tray Unit
[4]	Connector Cover	[15]	Multi-purpose Tray Pickup Sub Tray
[5]	Right Rear Cover 1	[16]	Multi-purpose Tray Pickup Side Guide Plate
[6]	Environment Heater Switch Cover	[17]	Right Front Cover (Upper)
[7]	Right Handle Cover (Rear)	[18]	Main Power Supply Switch Cover
[8]	Right Lower Sub Cover 2	[19]	Right Door Unit
[9]	Right Rear Cover 2	[20]	Third Delivery Frame Cover
[10]	Right Cover (Lower)	[21]	Third Delivery Outlet Cover
[11]	Right Lower Door	[22]	Wire Cover

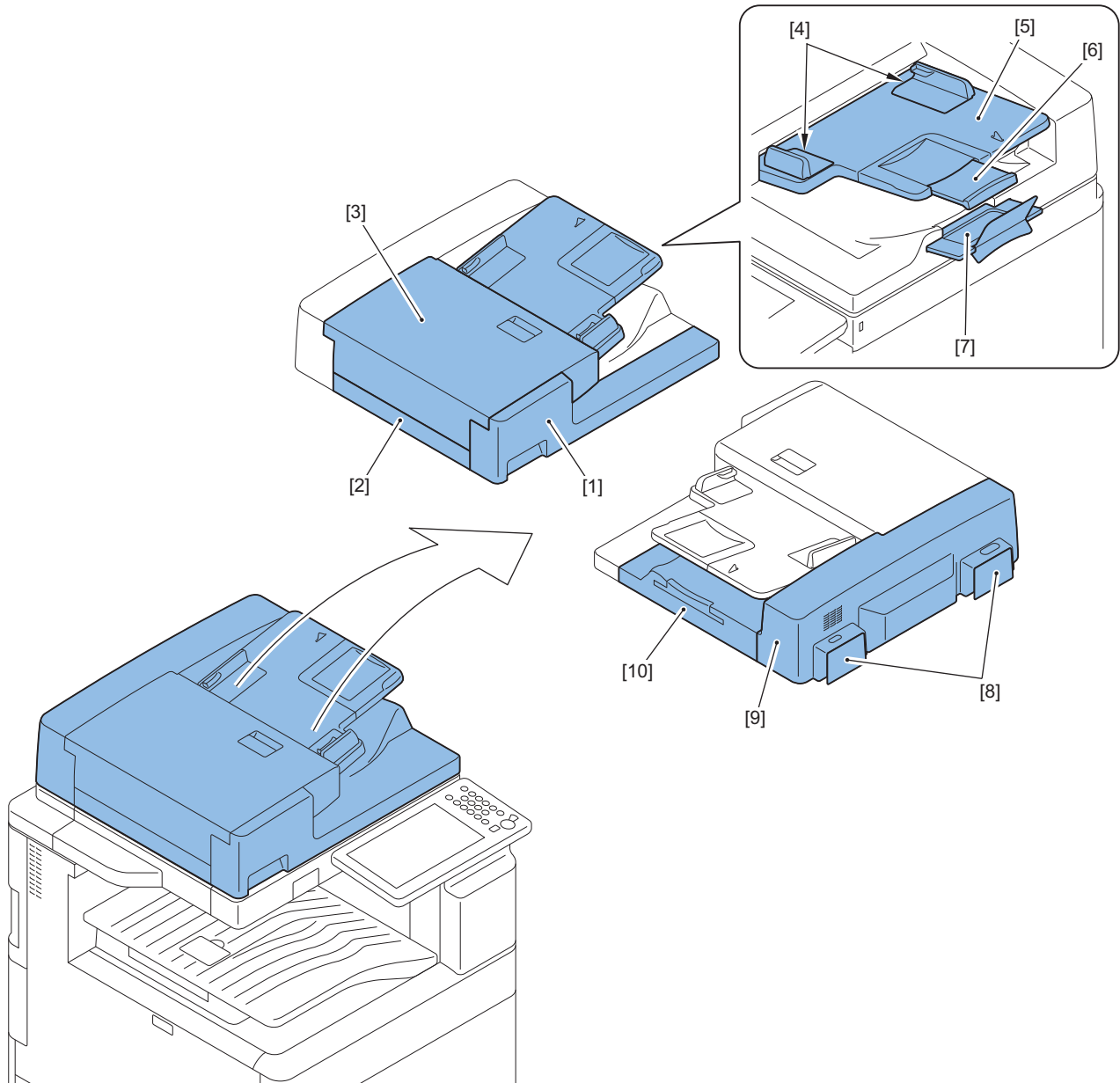
For the Duct Model (EUR only)



No.	Name	No.	Name
[1]	Rear Upper Cover	[13]	Right Handle Cover (Front)
[2]	Rear Lower Cover	[14]	MP Pickup Tray Unit
[3]	Filter Cover	[15]	Multi-purpose Tray Pickup Sub Tray
[4]	Connector Cover	[16]	Multi-purpose Tray Pickup Side Guide Plate
[5]	Right Rear Cover 1	[17]	Right Front Cover (Upper)
[6]	Environment Heater Switch Cover	[18]	Main Power Supply Switch Cover
[7]	Right Handle Cover (Rear)	[19]	Right Door Unit
[8]	Right Lower Sub Cover 2	[20]	Third Delivery Frame Cover
[9]	Right Rear Cover 2	[21]	Third Delivery Outlet Cover
[10]	Right Cover (Lower)	[22]	Wire Cover
[11]	Right Lower Door	[23]	Duct Upper Cover
[12]	Right Front Cover	[24]	Duct Lower Cover



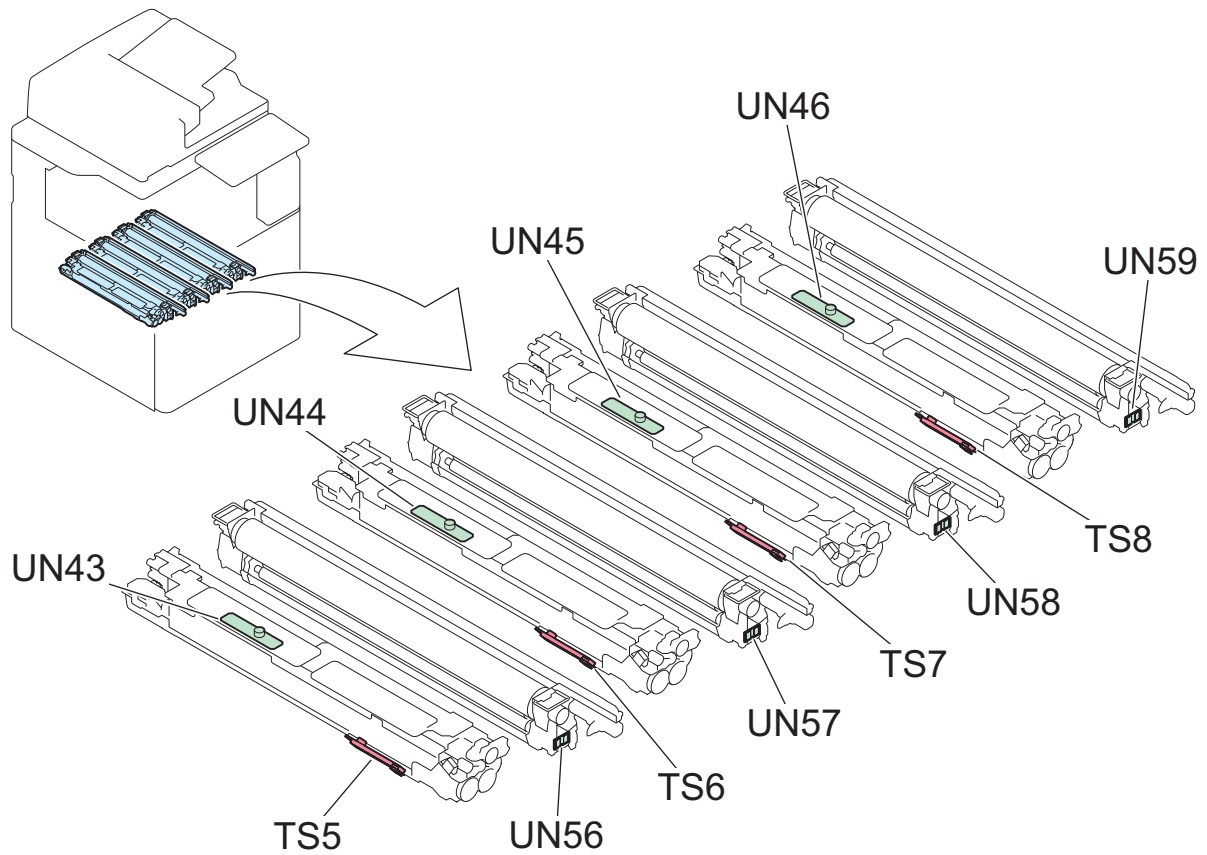
No.	Name	No.	Name
[1]	Reader Front Cover	[6]	Reader Right Retaining Cover
[2]	Reader Front Cover (Small)	[7]	Reader Hinge Lower Cover (Left) / Reader Hinge Lower Cover (Right)
[3]	Reader Left Cover	[8]	Reader PCB Cover
[4]	Reader Left Retaining Cover	[9]	Reader Rear Cover
[5]	Reader Glass Support Cover	[10]	Reader Right Cover



No.	Name	No.	Name
[1]	ADF Front Cover	[6]	Document supply tray extension
[2]	ADF Left Cover	[7]	Document output tray extension
[3]	ADF Upper Cover	[8]	Hinge Cover
[4]	Slide Guide	[9]	ADF Rear Cover
[5]	Document supply tray	[10]	Document output tray

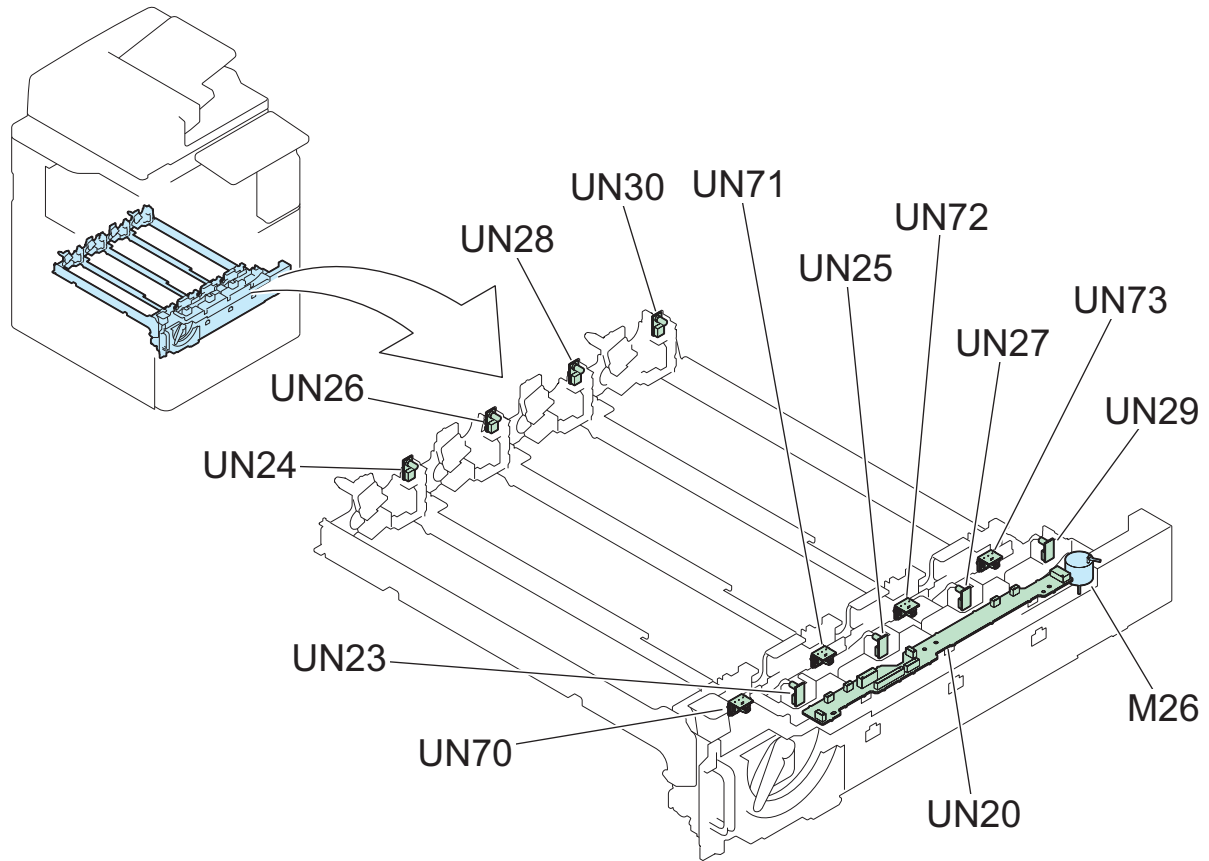
List of Electrical Parts

■ Drum Unit / Developing Unit



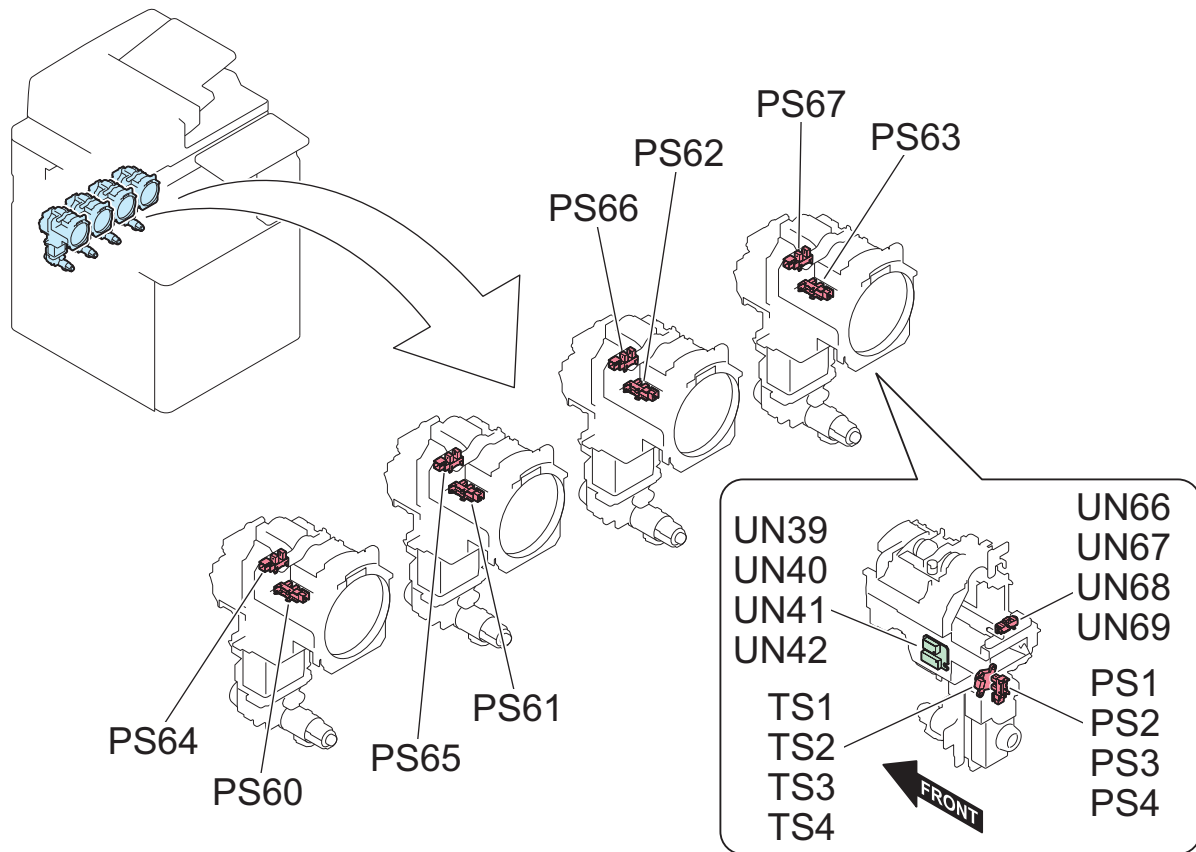
No.	Name	Reference
UN43	Developing Sub Bias PCB (Y)	
UN44	Developing Sub Bias PCB (M)	
UN45	Developing Sub Bias PCB (C)	
UN46	Developing Sub Bias PCB (Bk)	
UN56	Drum Unit Memory (Y)	
UN57	Drum Unit Memory (M)	
UN58	Drum Unit Memory (C)	
UN59	Drum Unit Memory (Bk)	
TS5	ATR Sensor (Y)	
TS6	ATR Sensor (M)	
TS7	ATR Sensor (C)	
TS8	ATR Sensor (Bk)	

■ Process Unit



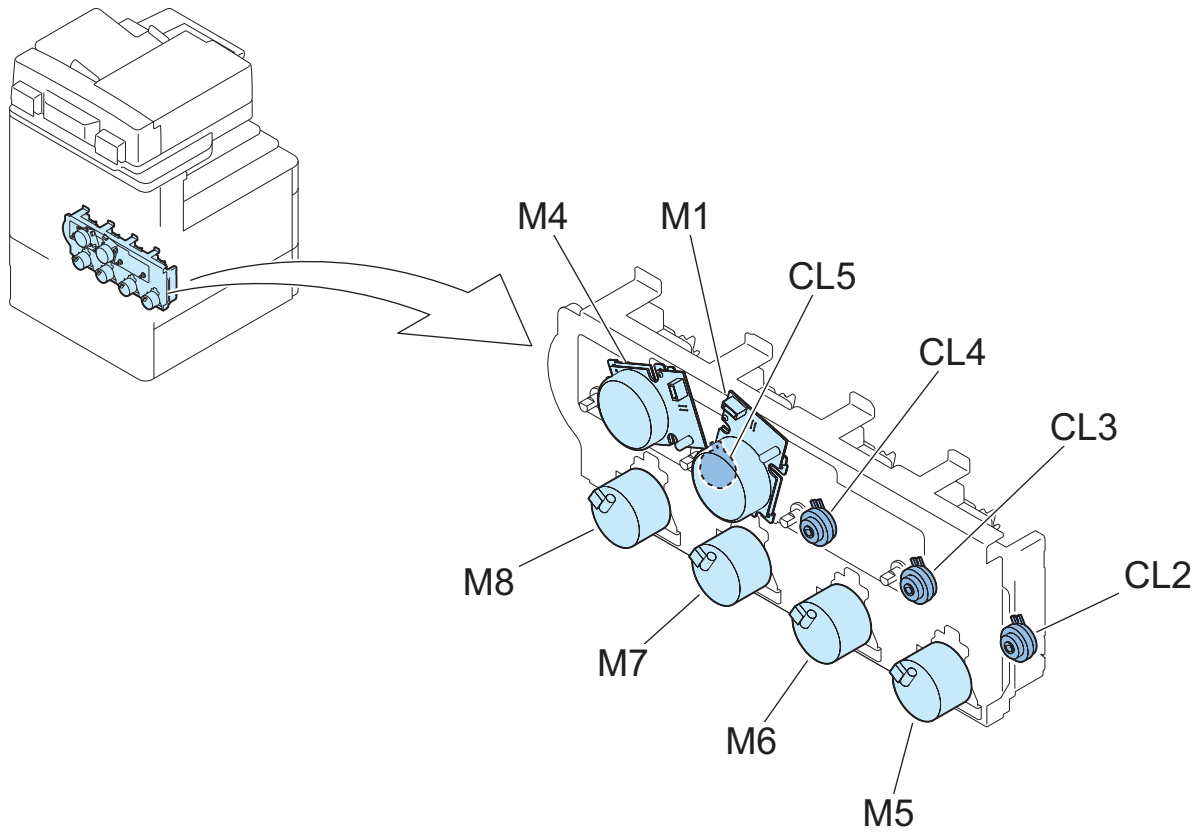
No.	Name	Reference
M26	Waste Toner Feed Motor	
UN20	Process Unit Relay PCB	
UN23	Y Pre-Exposure Led PCB (Front)	
UN24	Y Pre-Exposure Led PCB (Rear)	
UN25	M Pre-Exposure Led PCB (Front)	
UN26	M Pre-Exposure Led PCB (Rear)	
UN27	C Pre-Exposure Led PCB (Front)	
UN28	C Pre-Exposure Led PCB (Rear)	
UN29	Bk Pre-Exposure Led PCB (Front)	
UN30	Bk Pre-Exposure Led PCB (Rear)	
UN70	Drum Unit New/Old Sensor (Y)	
UN71	Drum Unit New/Old Sensor (M)	
UN72	Drum Unit New/Old Sensor (C)	
UN73	Drum Unit New/Old Sensor (Bk)	

■ Hopper Unit



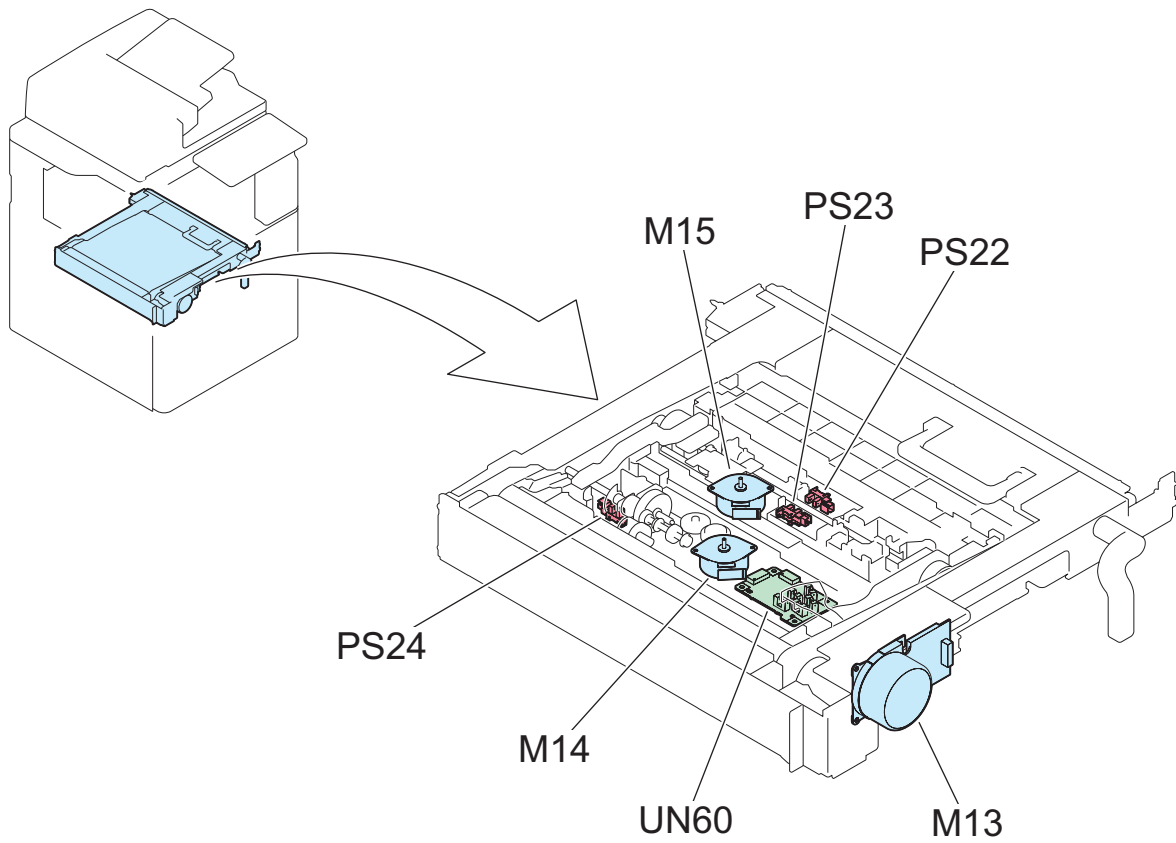
No.	Name	Reference
PS1	Toner Supply Sensor (Y)	
PS2	Toner Supply Sensor (M)	
PS3	Toner Supply Sensor (C)	
PS4	Toner Supply Sensor (Bk)	
PS60	Bottle Rotation Sensor (Y)	
PS61	Bottle Rotation Sensor (M)	
PS62	Bottle Rotation Sensor (C)	
PS63	Bottle Rotation Sensor (Bk)	
PS64	Bottle Position Sensor (Y)	
PS65	Bottle Position Sensor (M)	
PS66	Bottle Position Sensor (C)	
PS67	Bottle Position Sensor (Bk)	
TS1	Hopper Toner Level Sensor (Y)	
TS2	Hopper Toner Level Sensor (M)	
TS3	Hopper Toner Level Sensor (C)	
TS4	Hopper Toner Level Sensor (Bk)	
UN39	Toner Sensor Relay PCB (Y)	
UN40	Toner Sensor Relay PCB (M)	
UN41	Toner Sensor Relay PCB (C)	
UN42	Toner Sensor Relay PCB (Bk)	
UN66	Bottle New/Old Sensor (Y)	
UN67	Bottle New/Old Sensor (M)	
UN68	Bottle New/Old Sensor (C)	
UN69	Bottle New/Old Sensor (Bk)	

■ Main Drive Unit



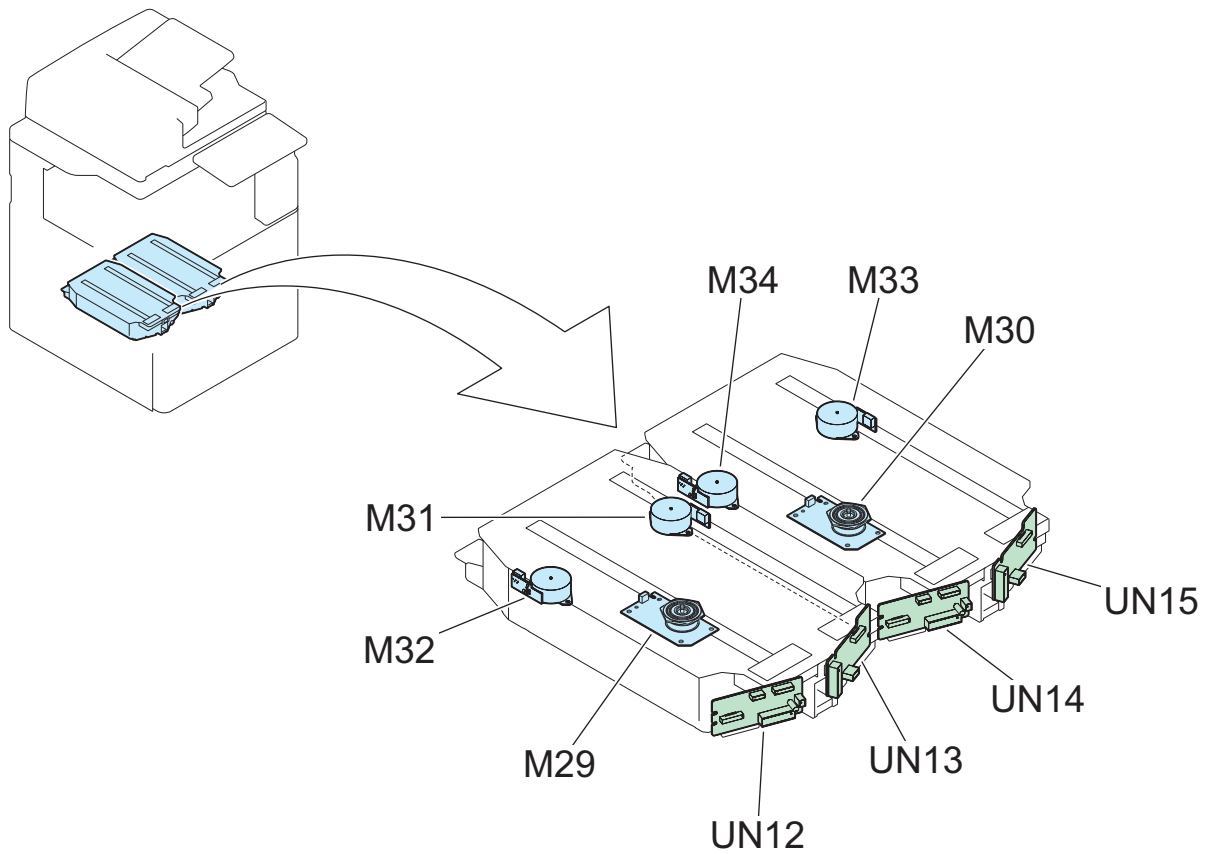
No.	Name	Reference
M1	Drum Motor (YMC)	
M4	Drum Motor (Bk)	
M5	Developing Motor (Y)	
M6	Developing Motor (M)	
M7	Developing Motor (C)	
M8	Developing Motor (Bk)	
CL2	Toner Supply Clutch (Y)	
CL3	Toner Supply Clutch (M)	
CL4	Toner Supply Clutch (C)	
CL5	Toner Supply Clutch (Bk)	

■ ITB Unit



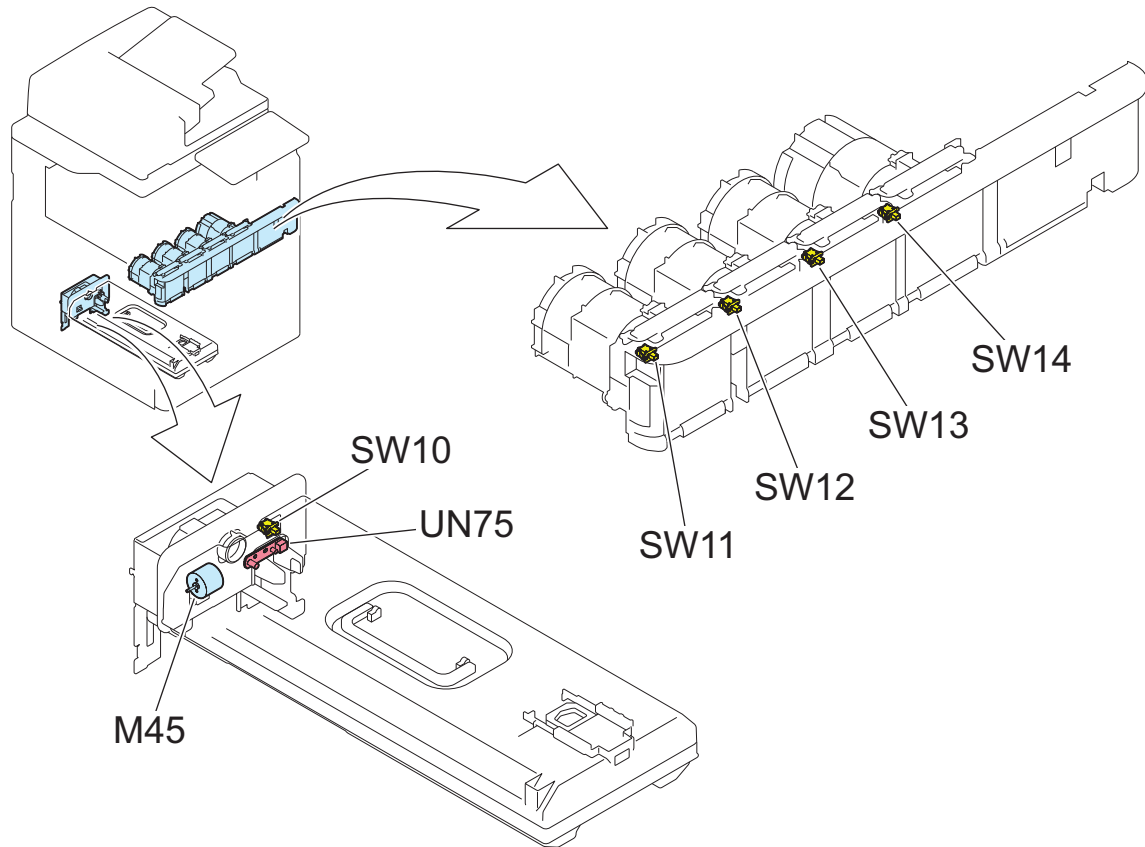
No.	Name	Reference
M13	ITB Motor	
M14	ITB Displacement Control Motor	
M15	Primary Transfer Roller Disengagement Motor	
PS22	Primary Transfer Detachment Sensor (CL)	
PS23	Primary Transfer Detachment Sensor (Bk)	
PS24	ITB Steering Sensor	
UN60	ITB Displacement Sensor PCB	

■ Laser Scanner Unit



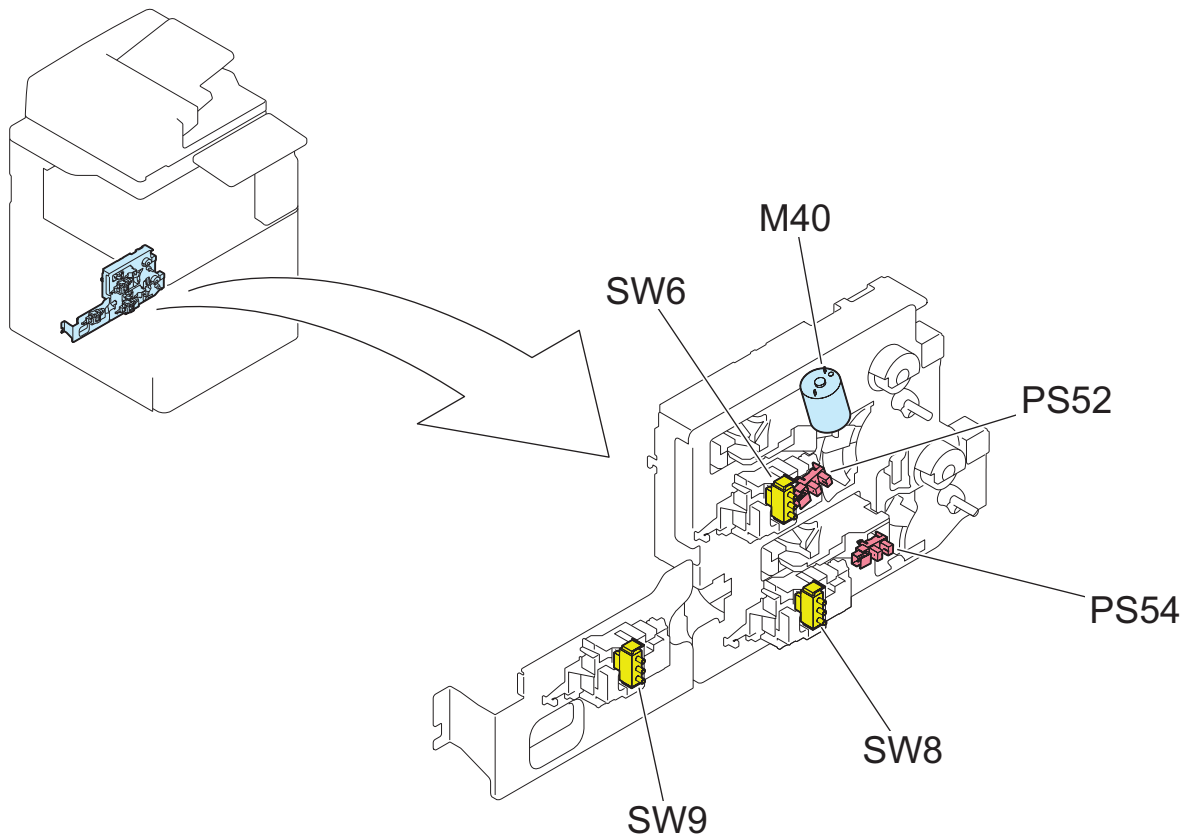
No.	Name	Reference
M29	Laser Scanner Motor (YM)	
M30	Laser Scanner Motor (CK)	
M31	Image Skew Correction Motor (Y)	
M32	Image Skew Correction Motor (M)	
M33	Image Skew Correction Motor (C)	
M34	Image Skew Correction Motor (Bk)	
UN12	Laser Driver PCB (M)	
UN13	Laser Driver PCB (Y)	
UN14	Laser Driver PCB (Bk)	
UN15	Laser Driver PCB (C)	

■ Bottle Cover / Waste Toner Container



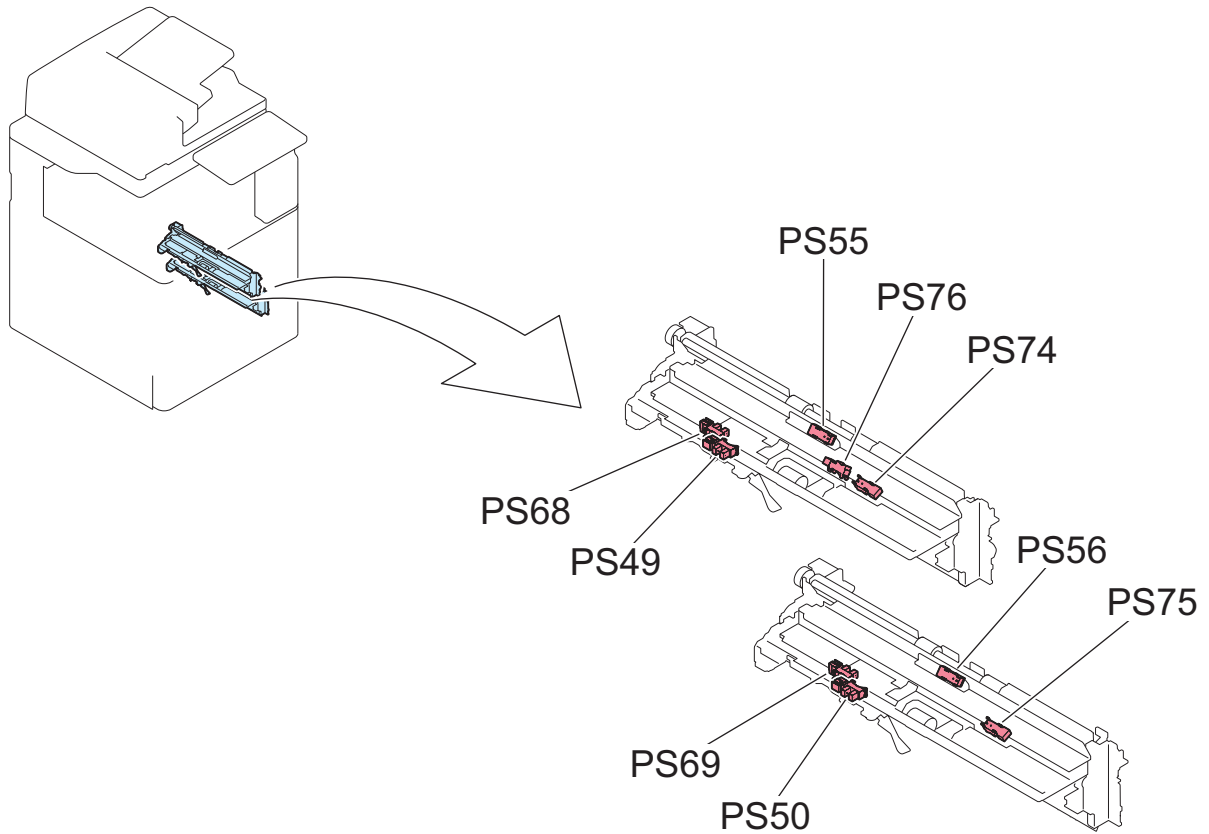
No.	Name	Reference
M45	Recycle Toner Stirring Motor	
UN75	Waste Toner Sensor PCB	
SW10	Waste Toner Container Detection Switch	
SW11	Bottle Cover Open/Close Switch (Y)	
SW12	Bottle Cover Open/Close Switch (M)	
SW13	Bottle Cover Open/Close Switch (C)	
SW14	Bottle Cover Open/Close Switch (Bk)	

■ Cassette Lifter Drive Assembly



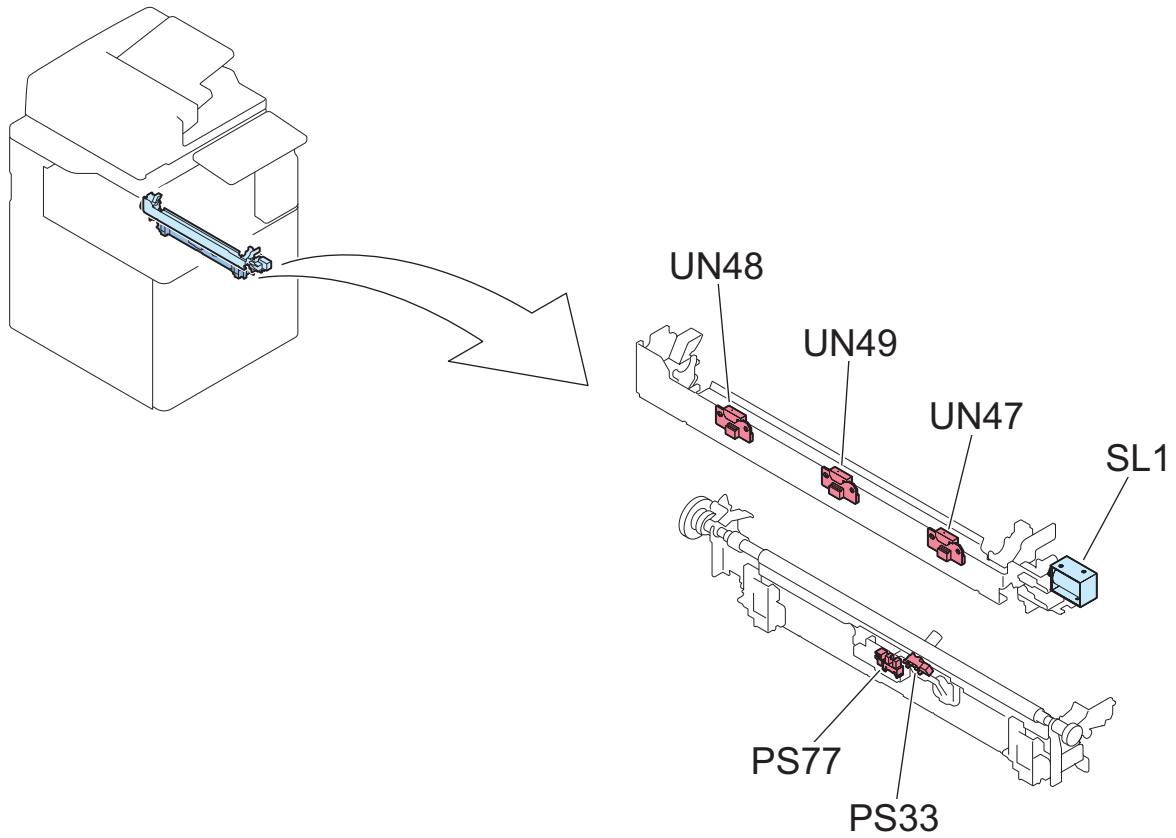
No.	Name	Reference
M40	Cassette 1,2 Lifter Motor	
PS52	Cassette 1 Paper Level Sensor A	
PS54	Cassette 2 Paper Level Sensor A	
SW6	Cassette 1 Size Switch	
SW8	Cassette 2 Size Switch A	
SW9	Cassette 2 Size Switch B	

■ Pickup Unit



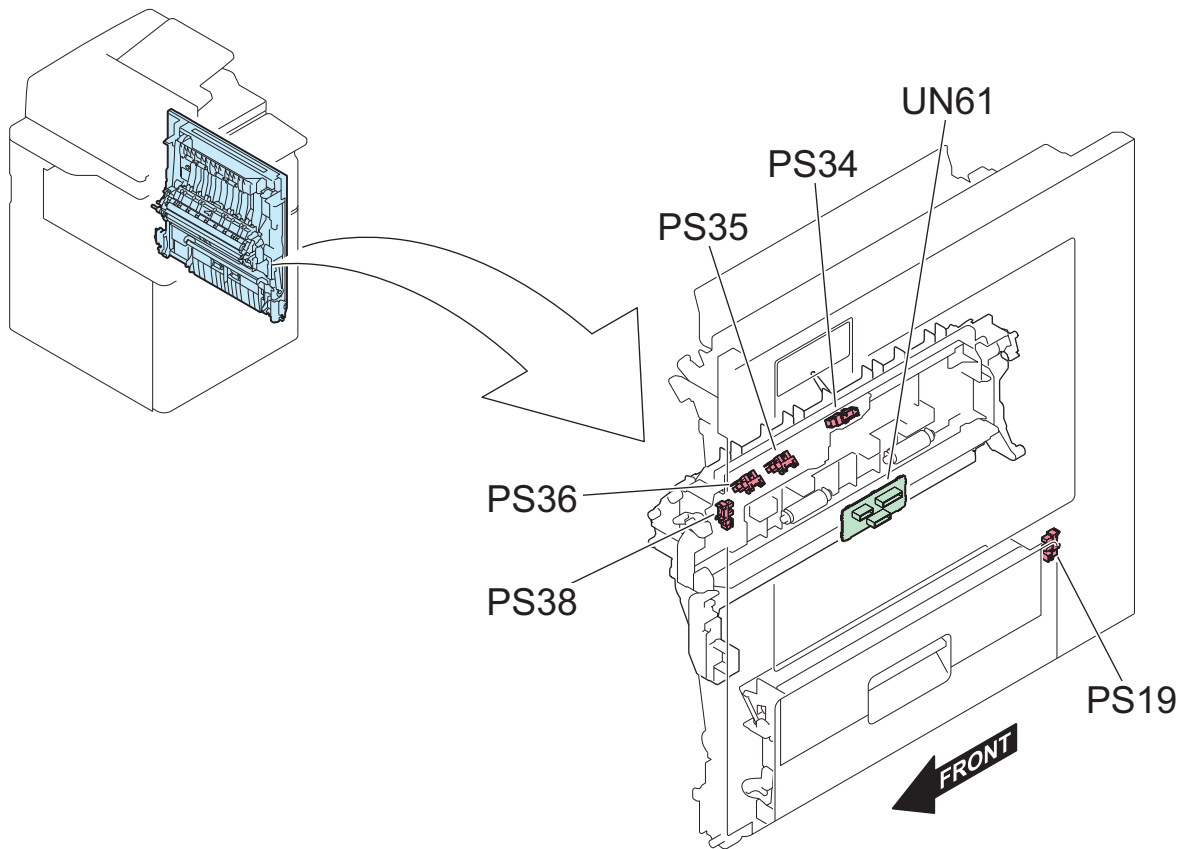
No.	Name	Reference
PS49	Cassette 1 Paper Sensor	
PS50	Cassette 2 Paper Sensor	
PS55	Cassette 1 Pullout Sensor	
PS56	Cassette 2 Pullout Sensor	
PS68	Cassette 1 Paper Surface Sensor	
PS69	Cassette 2 Paper Surface Sensor	
PS74	Cassette 1 Pickup Nip Sensor	
PS75	Cassette 2 Pickup Nip Sensor	
PS76	Between-Cassette 1/2 Sensor	

■ Registration Unit



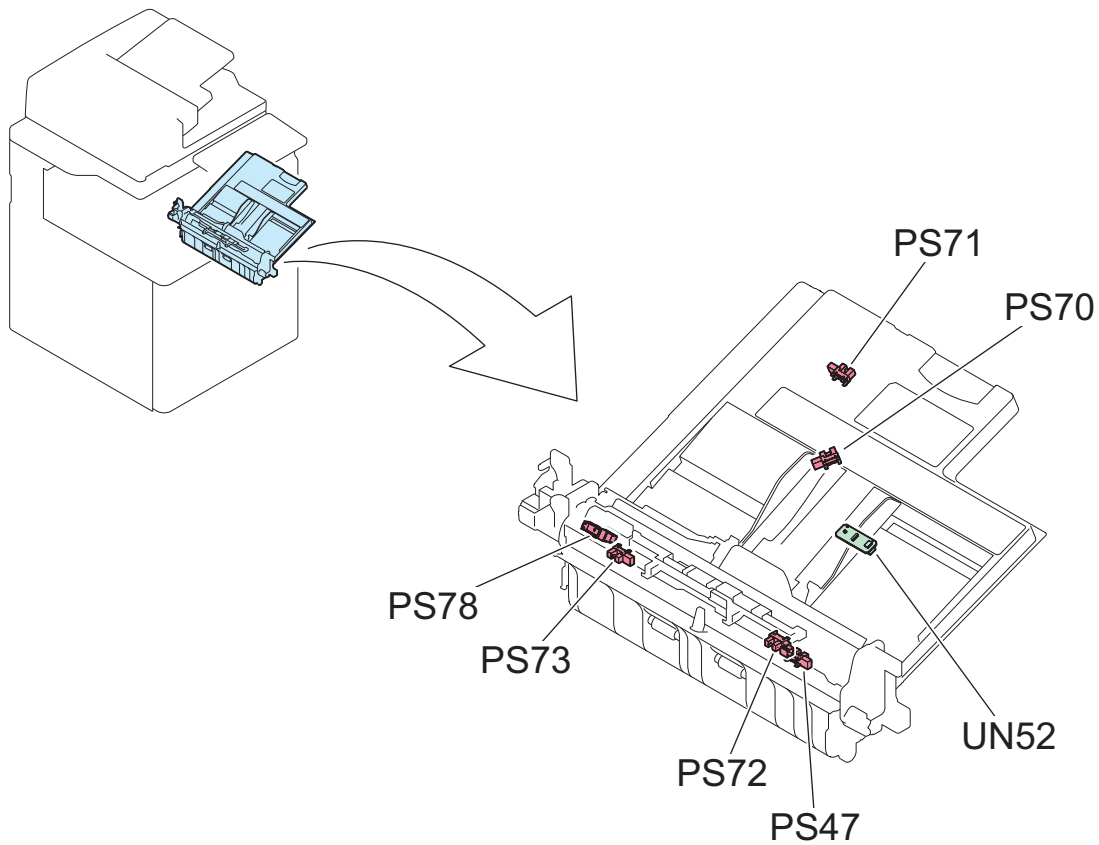
No.	Name	Reference
SL1	Registration Shutter Solenoid	
UN47	Registration Patch Sensor (Front)	
UN48	Registration Patch Sensor (Rear)	
UN49	Registration Patch Sensor (Middle)	
PS33	Registration Sensor	
PS77	Transparency Registration Sensor	

■ Right Door Unit



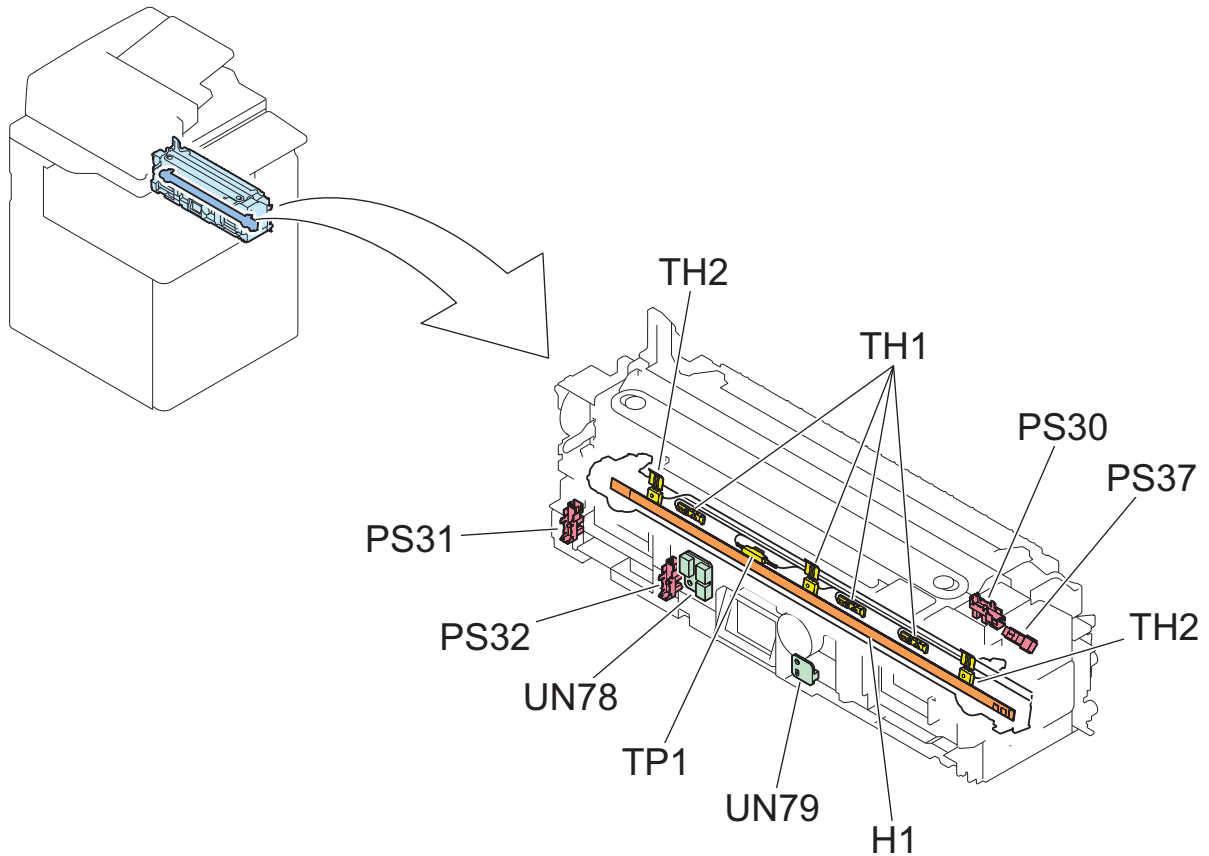
No.	Name	Reference
UN61	Right Door Relay PCB	
PS19	Right Lower Door Sensor	
PS34	Fixing Inlet Sensor	
PS35	Fixing Arch Sensor 1	
PS36	Fixing Arch Sensor 2	
PS38	Duplex Paper Sensor	

■ Multi-purpose Tray Pickup Assembly



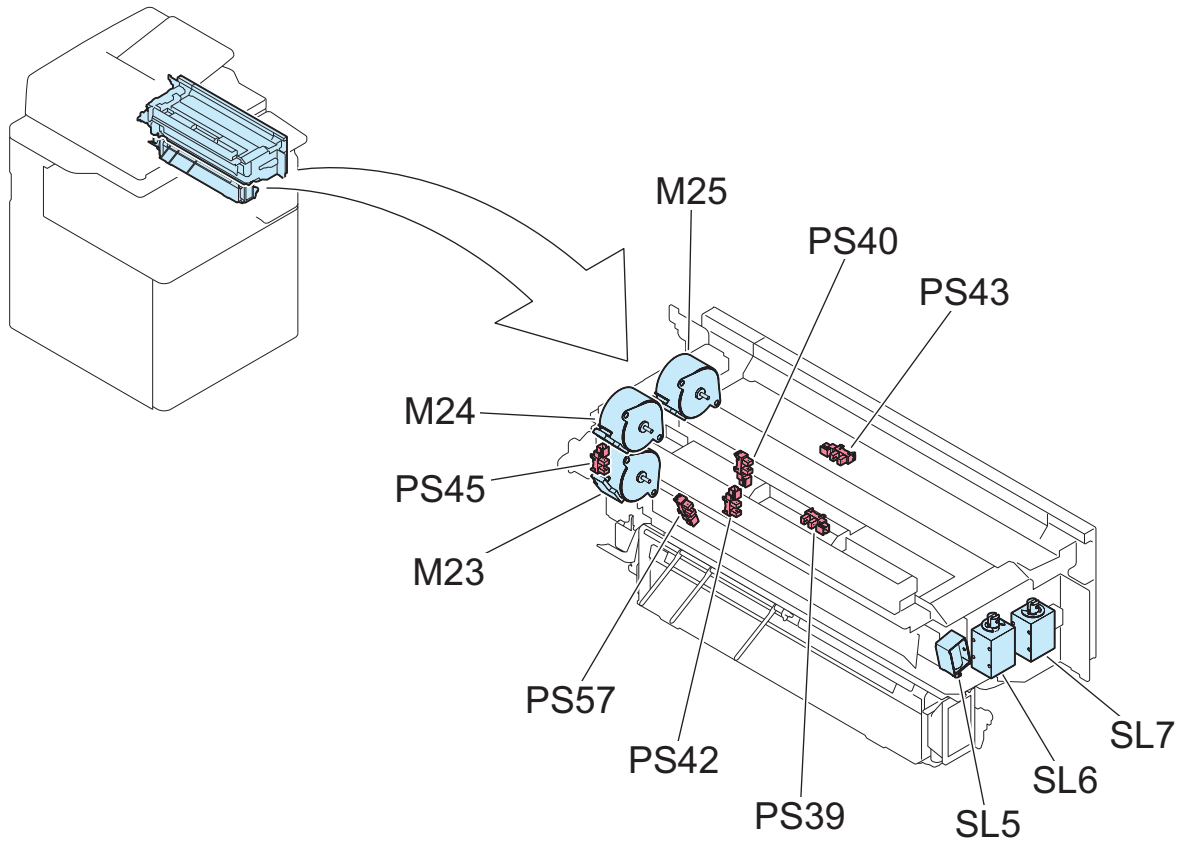
No.	Name	Reference
PS47	Multi-Purpose Tray Paper Sensor	
PS70	Multi-Purpose Tray Paper Length Sensor 1	
PS71	Multi-Purpose Tray Paper Length Sensor 2	
PS72	Multi-Purpose Tray Pullout Sensor	
PS73	Multi-Purpose Tray HP Sensor	
PS78	Multi-purpose Tray Pickup Roller HP Sensor	
UN52	Multi-Purpose Tray Width Sensing PCB	

■ Fixing Unit



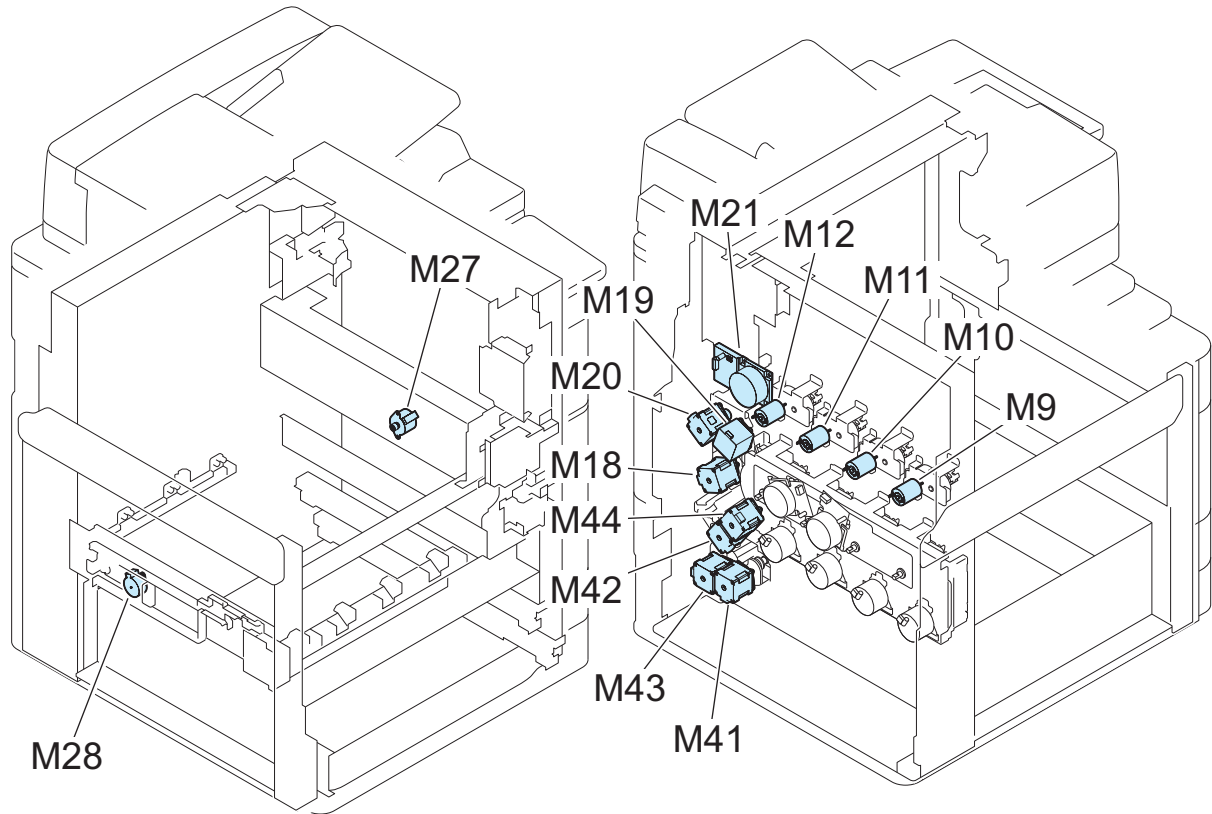
No.	Name	Reference
PS30	Fixing Pressure Sensor	
PS31	Shutter HP Sensor	
PS32	Shutter Position Sensor	
PS37	Inner Delivery Sensor	
UN78	Fixing Relay PCB	
UN79	Fixing Memory PCB	
H1	Fixing Heater	
TH1	Main Thermistor (Fixing Heater (Center) / Fixing Film (Center) / Fixing Heater (Front Edge) / Fixing Heater (Rear Edge))	
TH2	Sub Thermistor (Fixing Film (Front Edge) / Fixing Film (Rear Edge))	
TP1	Thermoswitch	

■ 2/3 Delivery Unit



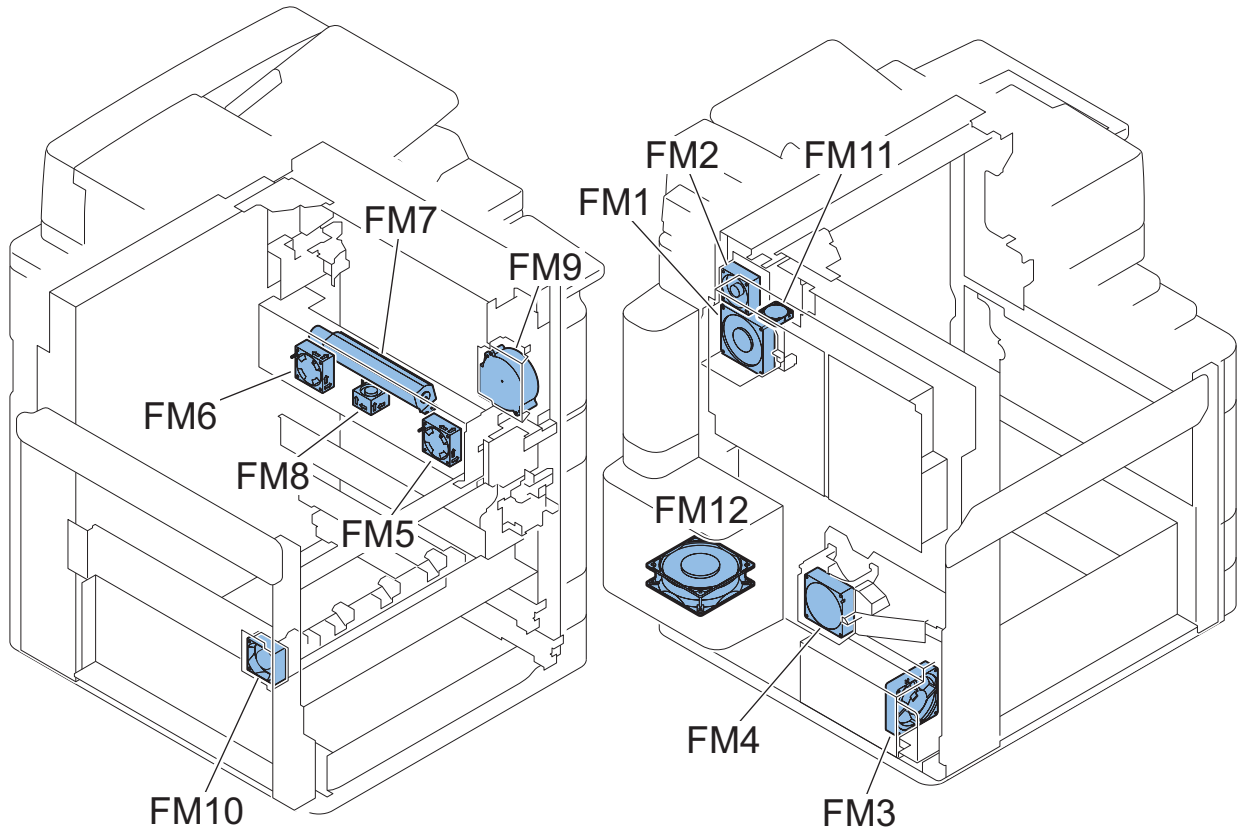
No.	Name	Reference
M23	First & Second Delivery Motor	
M24	Reverse Motor	
M25	Third Delivery Motor	
SL5	First Delivery Flapper Solenoid	
SL6	Second Delivery Flapper Solenoid	
SL7	Third Delivery Flapper Solenoid	
PS39	Reverse Sensor	
PS40	Duplex Inlet Sensor	
PS42	Second Delivery Sensor	
PS43	Third Delivery Sensor	
PS45	Second Delivery Tray Full Sensor	
PS57	Pre-Reverse Sensor	

■ Motor (Others)



No.	Name	Reference
M9	Bottle Motor (Y)	
M10	Bottle Motor (M)	
M11	Bottle Motor (C)	
M12	Bottle Motor (Bk)	
M18	Multi-Purpose Pickup Motor	
M19	Registration Motor	
M20	Duplex Feed Motor	
M21	Fixing Motor	
M27	Fixing Shutter Motor	
M28	Laser Shutter Motor	
M41	Cassette 1,2 Pickup Motor	
M42	Cassette 1 Pullout Motor	
M43	Cassette 2 Pullout Motor	
M44	Pre-Registration Motor	

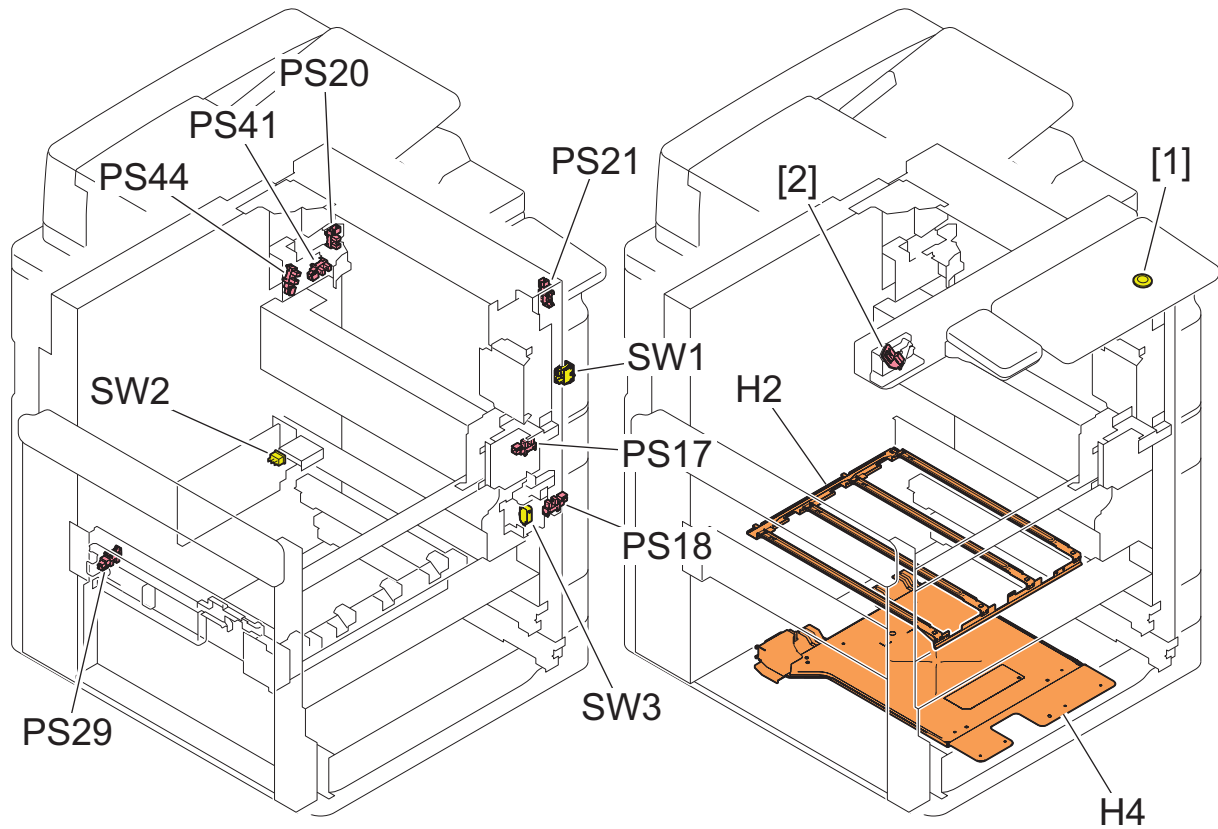
■ Fan (Others)



No.	Name	Reference
FM1	Fixing Heat Exhaust Fan 1	
FM2	Fixing Heat Exhaust Fan 2	
FM3	Power Supply Cooling Fan	
FM4	Process Cartridge Fan (Rear)	
FM5	Fixing Cooling Fan (Front)	
FM6	Fixing Cooling Fan (Rear)	
FM7	Delivery Fan 1	
FM8	Secondary Transfer Exhaust Fan	
FM9	Delivery Fan 2	
FM10	Process Cartridge Fan (Front)	
FM11	Controller Fan	
FM12	Exhaust Fan (Rear) *1	

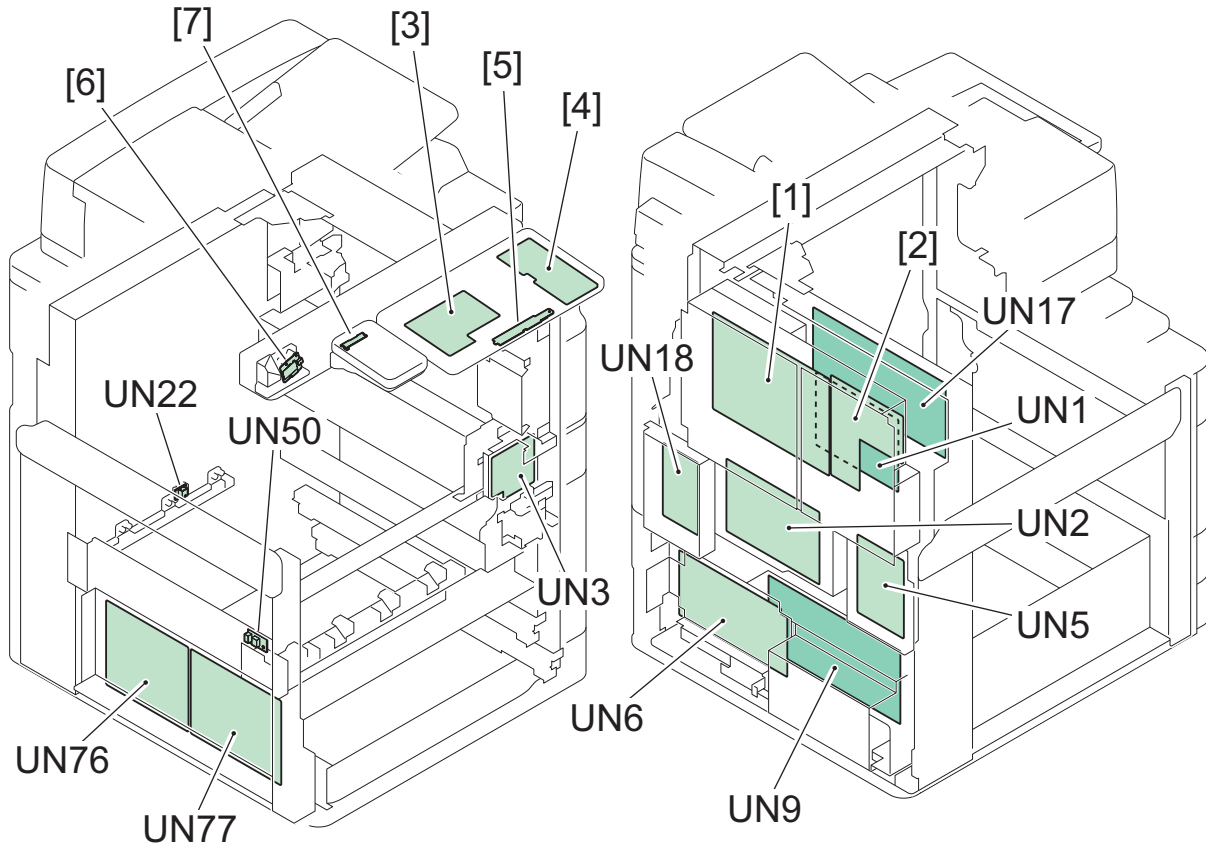
*1 : For EUR model only

■ Sensor / Switch (Others)



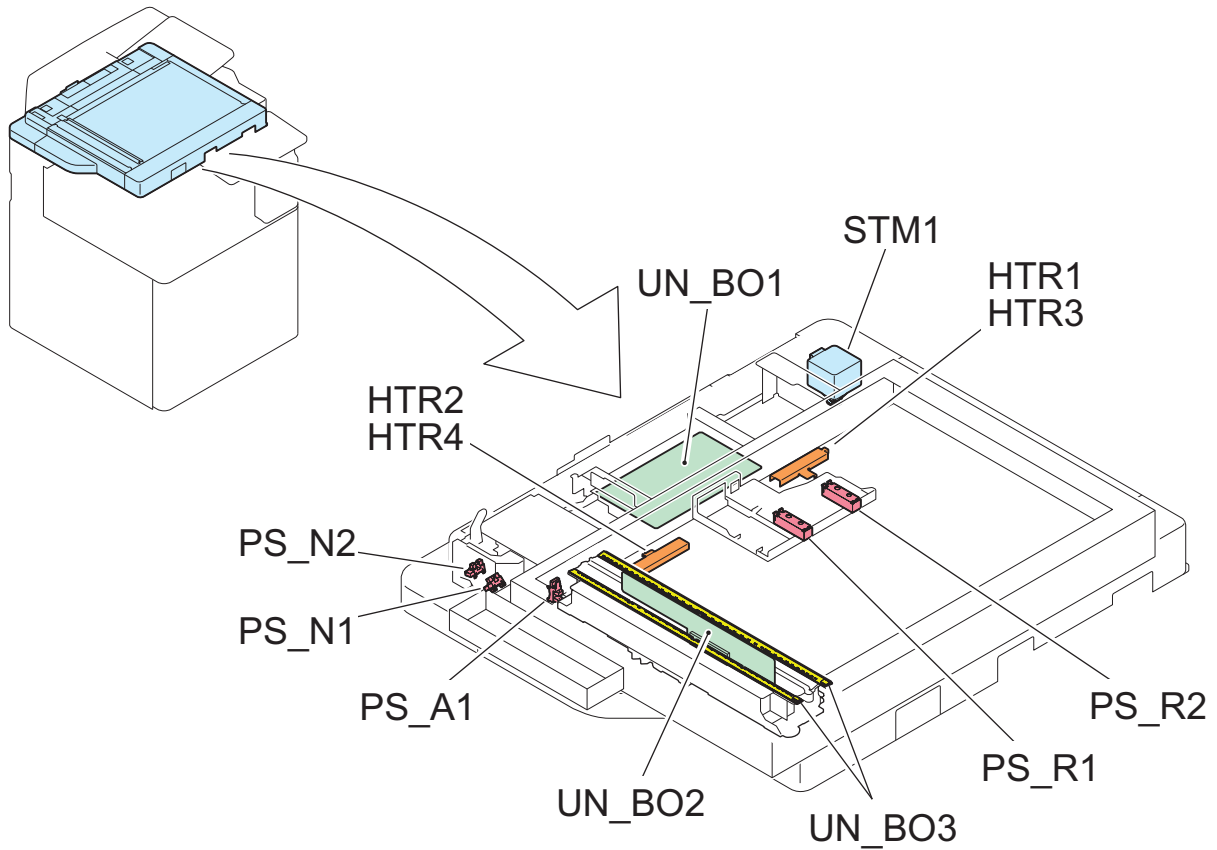
No.	Name	Reference
PS17	Toner Container Outer Cover Sensor	
PS18	Front Door Sensor	
PS20	Right Door Sensor	
PS21	Second & Third Delivery Door Sensor	
PS29	Laser Shutter Sensor	
PS41	First Delivery Sensor	
PS44	First Delivery Tray Full Sensor	
SW1	Main Power Supply Switch	
SW2	Environment Switch	
SW3	DC Interlock Switch	
H2	Drum Heater	
H4	Cassette Heater	
[1]	Speaker	
[2]	Motion Sensor	

■ PCB (Others)



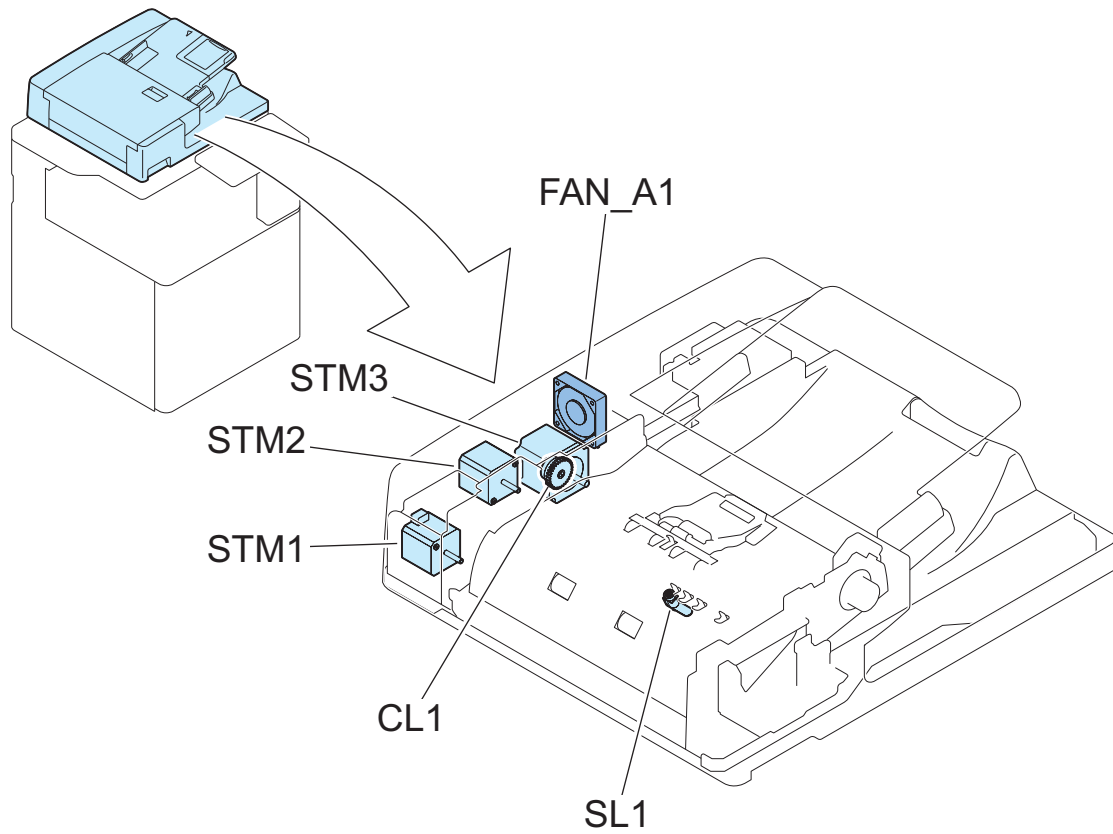
No.	Name	Reference
UN1	DC Controller PCB	
UN2	Feed/Drum Driver PCB	
UN3	Front Driver PCB	
UN5	Relay PCB	
UN6	AC Driver PCB	
UN9	Low Voltage Power Supply PCB	
UN17	Primary Transfer/Bk Developing Charging High-Voltage PCB	
UN18	Secondary Transfer High-Voltage PCB	
UN22	Internal Temperature Sensor	
UN50	Environment Sensor	
UN76	Developing High-Voltage PCB (YMC)	
UN77	Charging High-Voltage PCB (YMC)	
[1]	Main Controller PCB	
[2]	Riser PCB	
[3]	Control Panel CPU PCB	
[4]	Control Panel KEY PCB	
[5]	NFC PCB	
[6]	Wireless LAN PCB	
[7]	Device Port LED PCB	

■ Reader

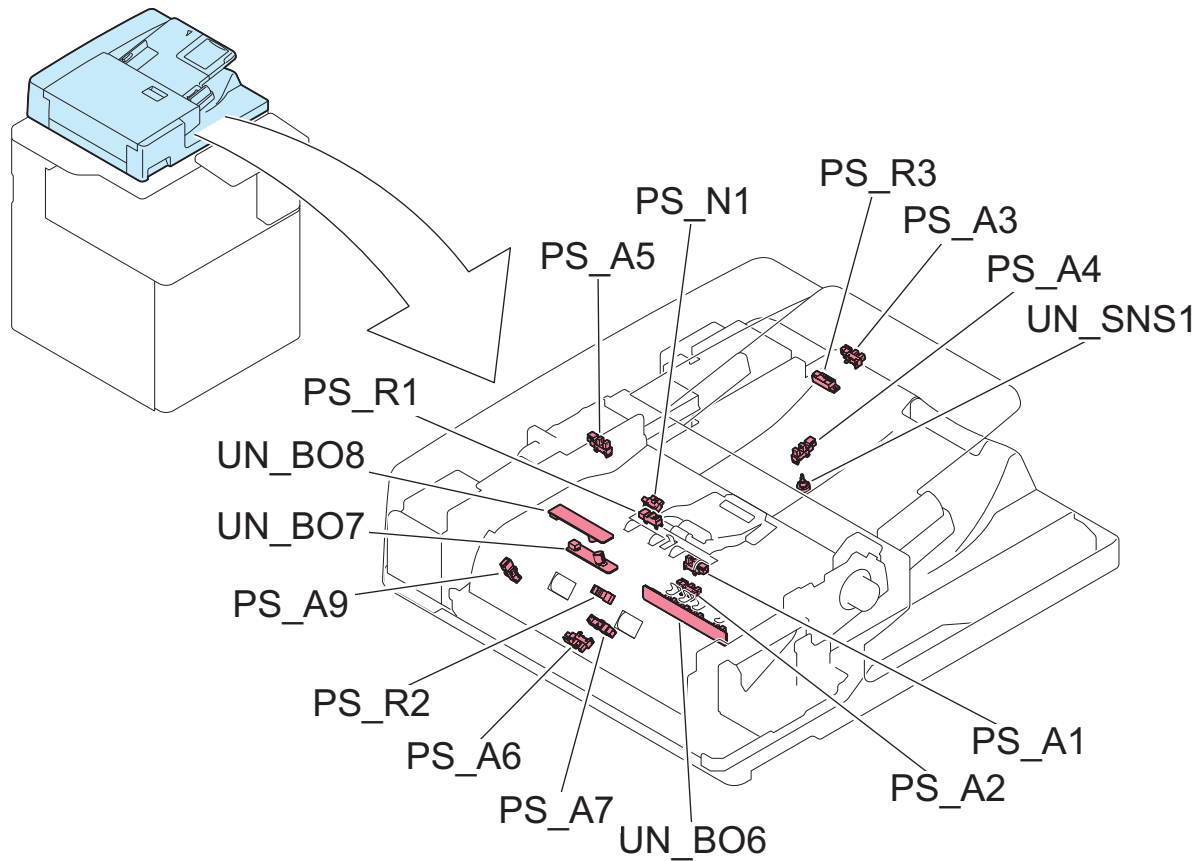


No.	Name	Reference
STM1	Scanner Motor	
PS_A1	Scanner Unit HP Sensor	
PS_N1	Copyboard Cover Open/Closed Sensor (Front)	
PS_N2	Copyboard Cover Open/Closed Sensor (Rear)	
PS_R1	Original Size Sensor (AB)	
PS_R2	Original Size Sensor (Inch)	
HTR1	Reader Heater 1 (100V)	
HTR3	Reader Heater 2 (200V)	
HTR2	Reader Heater 1 (100V)	
HTR4	Reader Heater 2 (200V)	
UN_BO1	Reader Control PCB	
UN_BO2	CMOS PCB	
UN_BO3	LED PCB	

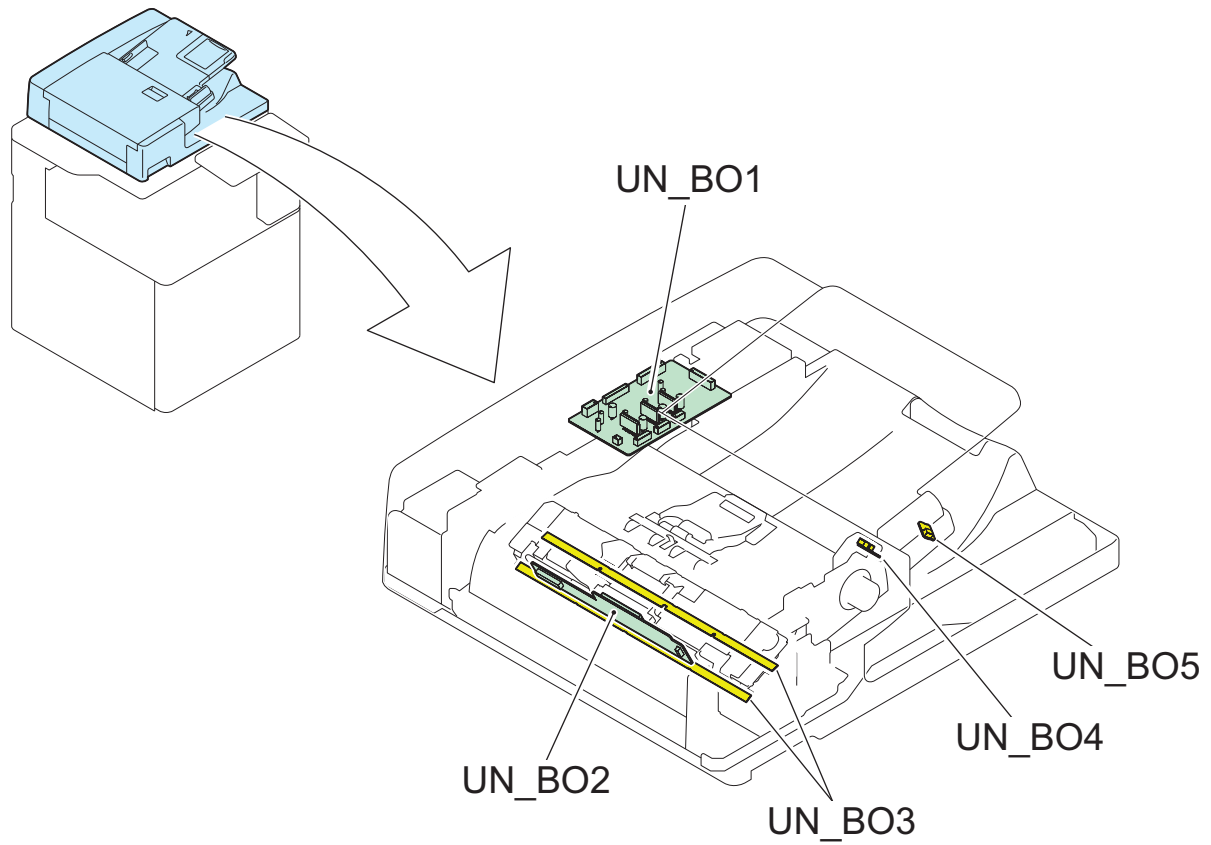
■ ADF



No.	Name	Reference
CL1	Separation Clutch	
SL1	Stamp Solenoid	
STM1	Registration Motor	
STM2	Pickup Motor	
STM3	Read Motor	
FAN_A1	Cooling Fan	



No.	Name	Reference
PS_A1	Arch Sensor	
PS_A2	Delivery Tray Sensor	
PS_A3	LTR-R/ LGL Sensor	
PS_A4	AB/ Inch Sensor	
PS_A5	Cover Open/Closed Sensor	
PS_A6	Lead Sensor 1	
PS_A7	Lead Sensor 2	
PS_A9	Glass Movement HP Sensor	
PS_N1	Original Sensor	
PS_R1	Post-separation Sensor	
PS_R2	Registration Sensor	
PS_R3	Large/Small Sensor	
UN_BO6	Paper Width Sensor	
UN_BO7	Double Feed Detection PCB (Transmission)	
UN_BO8	Double Feed Detection PCB (Reception)	
UN_SNS1	Original Width Volume	



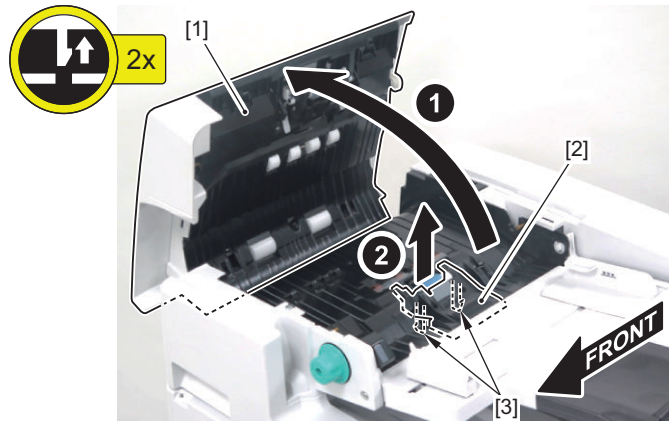
No.	Name	Reference
UN_BO1	ADF Driver PCB	
UN_BO2	CMOS PCB	
UN_BO3	LED PCB	
UN_BO4	Original set indicator	
UN_BO5	Original output indicator	

Original Exposure System

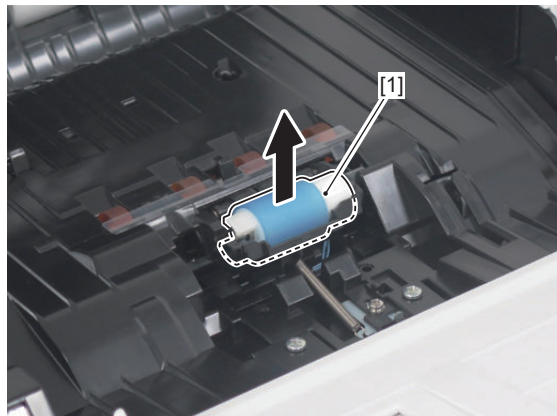
● Removing the ADF Pre-separation Unit / ADF Separation Roller

■ Procedure

1. Open the Feeder Cover [1].
2. Remove the Pre-separation Unit [2].
 - 2 Claws [3]

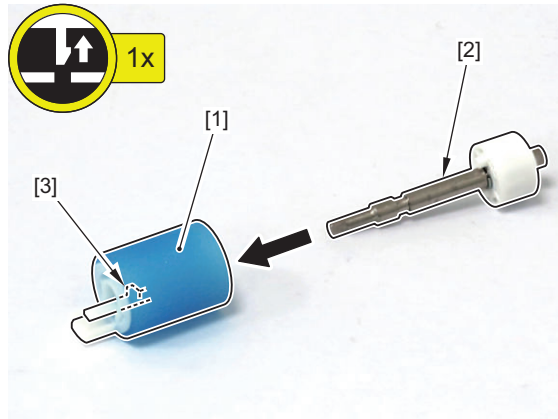


3. Remove the ADF Separation Roller Shaft [1].



4. Remove the ADF Separation Roller [1] from the shaft [2].

- 1 Claw [3]



CAUTION:

Clear the parts counter in the following service mode after replacing the ADF Separation Roller.

- COPIER > COUNTER > DRBL-2 > DF-SP-RL

Removing the ADF Pickup Roller Unit

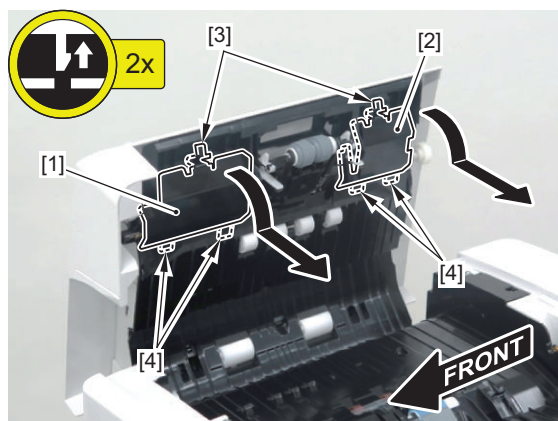
■ Procedure

CAUTION:

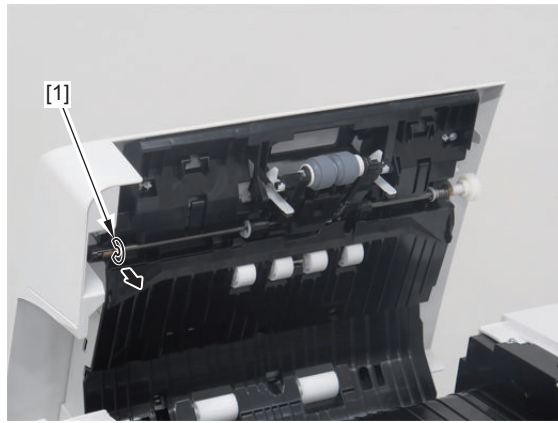
Be sure not to touch the ADF Pickup Roller and the ADF Feed Roller.

1. Remove the Feeder Inner Cover (Front) [1] and the Feeder Inner Cover (Rear) [2].

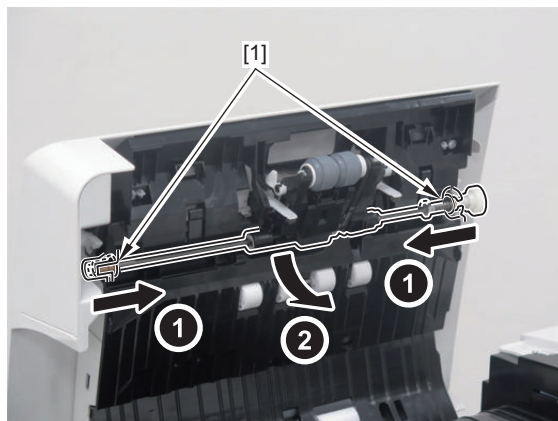
- 2 Claws [3]
- 4 Hooks [4]



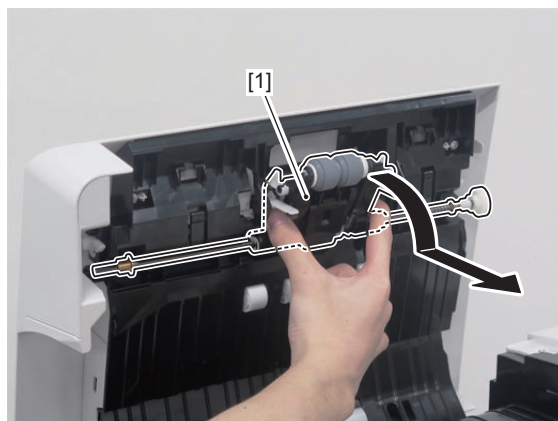
2. Remove the Resin Ring [1].



3. Pull out the shaft while shifting the 2 bushings [1].



4. Remove the ADF Pickup Roller Unit [1].



● Removing the ADF Pickup Roller and the ADF Feed Roller

■ Preparation

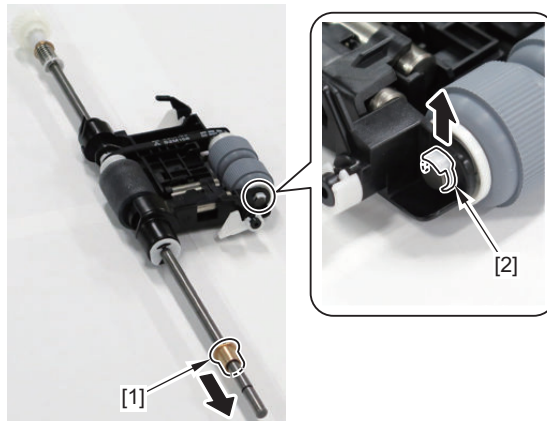
1. Remove the ADF Pickup Roller Unit. [“Removing the ADF Pickup Roller Unit” on page 225](#)

■ Procedure

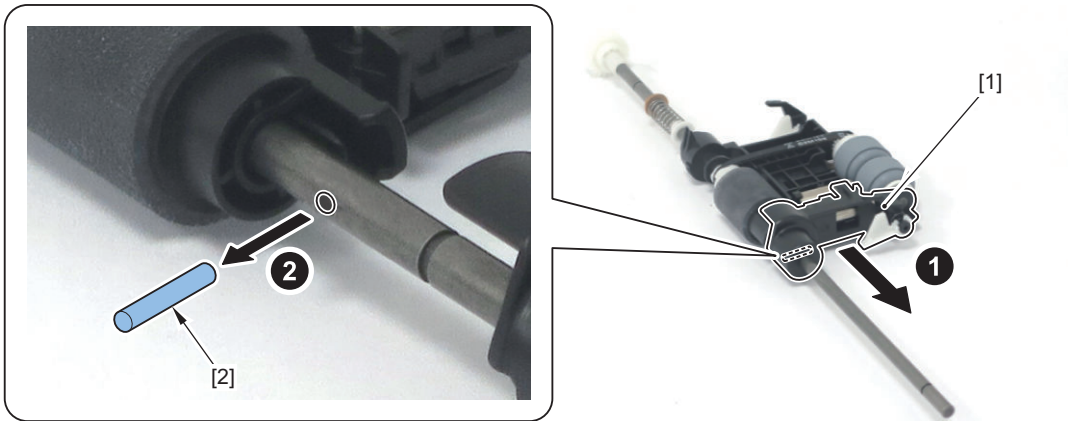
CAUTION:

Be sure not to touch the ADF Pickup Roller and the ADF Feed Roller.

1. Remove the bushing [1] and the 2 Resin Rings [2] from the ADF Pickup Roller Unit.

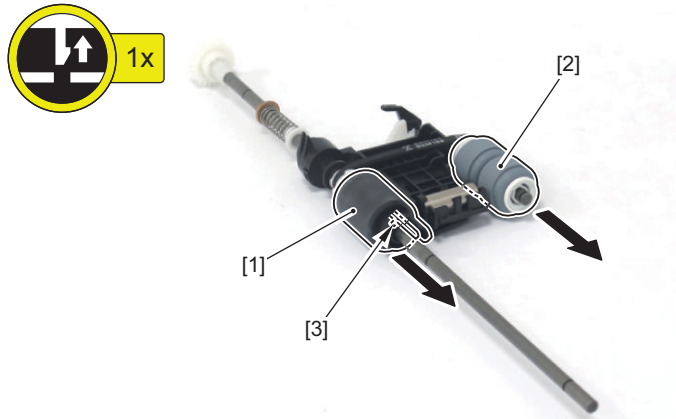


2. Remove the Roller Holder (Front) [1] and the Parallel Pin [2].



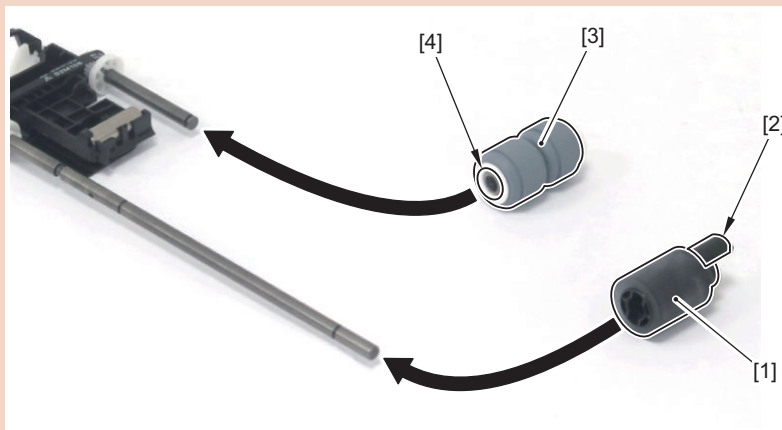
3. Remove the ADF Pickup Roller [1] and the ADF Feed Roller [2].

- 1 Claw [3]



CAUTION:

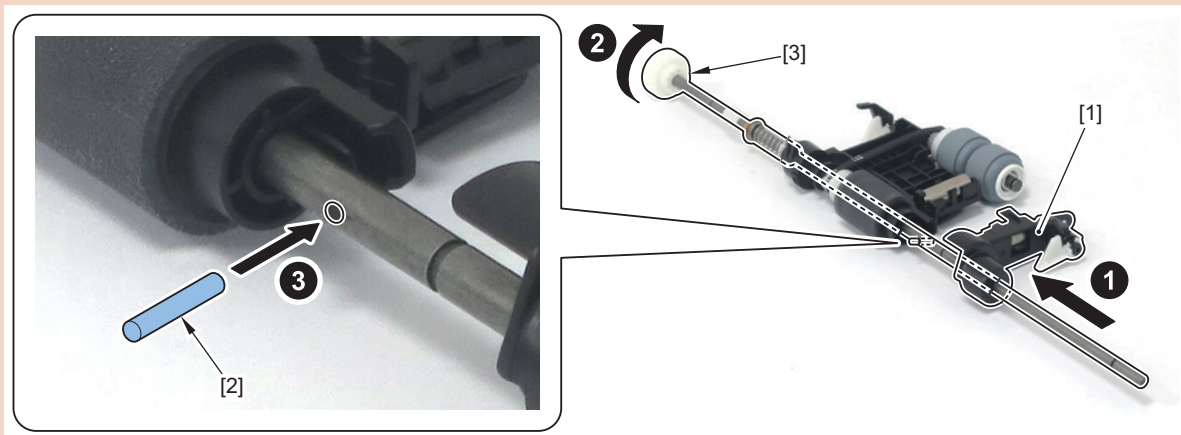
Be sure to install the ADF Pickup Roller [1] with the protrusion [2] on the front side and install the ADF Feed Roller [3] with the bearing [4] on the rear side.



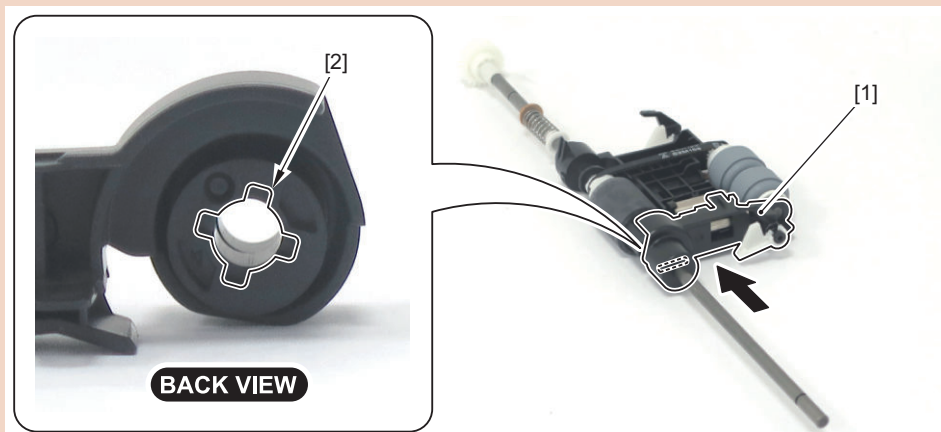
CAUTION:

Installing the Roller Holder (Front) and the Parallel Pin

1. Pass the Roller Holder (Front) [1] through the shaft of the ADF Pickup Roller Unit, and slide it until it comes to the hole for the Parallel Pin [2].
2. Rotate the gear [3] in the direction shown in the figure below so that the hole for the Parallel Pin is oriented horizontally, and install the Parallel Pin.



3. Install the Roller Holder (Front) [1] by aligning its groove [2] with the Parallel Pin.

**CAUTION:**

Clear the parts counter in the following service mode after replacing the ADF Pickup Roller.

- COPIER > COUNTER > DRBL-2 > DF-PU-RL

Clear the parts counter in the following service mode after replacing the ADF Feed Roller.

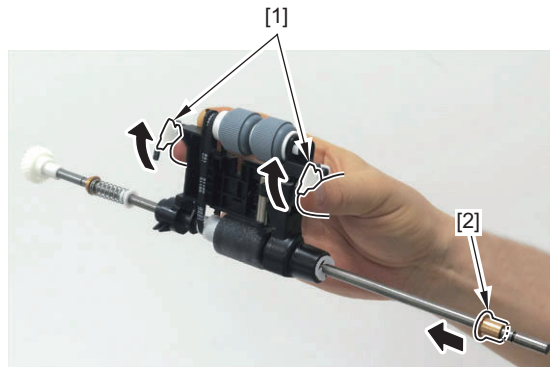
- COPIER > COUNTER > DRBL-2 > DF-FD-RL

Installing the ADF Pickup Roller Unit

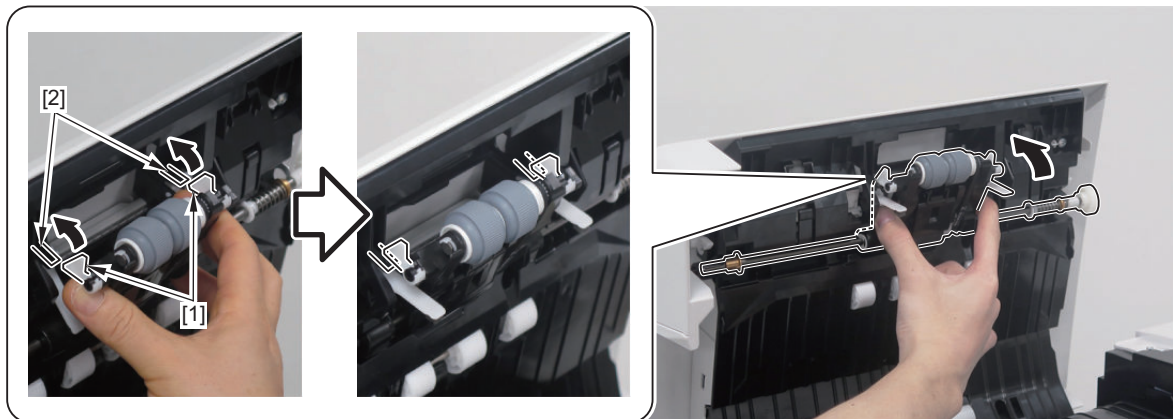
■ Procedure

1. Hold the ADF Pickup Roller Unit while lifting the 2 flags [1] with your fingers.

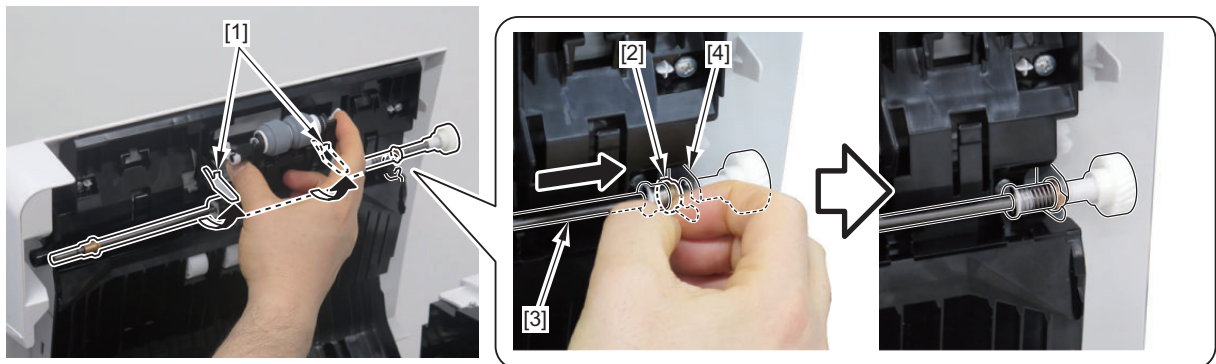
2. Install the bushing [2].



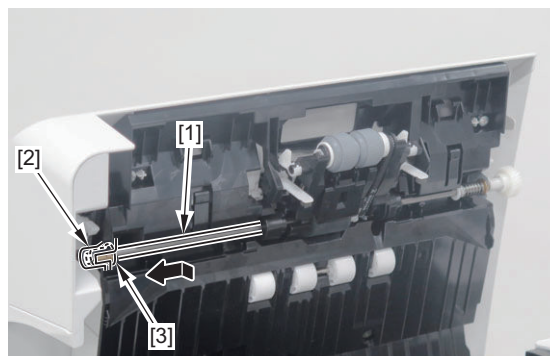
3. Place the 2 flags [1] of the ADF Pickup Roller Unit on the 2 guides [2] of the feeder, and insert the Pickup Roller Unit side from above.



4. Move the shaft [2] of the ADF Pickup Roller Unit under the 2 flags [1] on the feeder side. Shift the bushing [3] while compressing the spring, and insert the shaft [2] into the Shaft Support [4] of the feeder. (It is advisable to insert it from the rear side.)



5. Put the shaft [1] of the ADF Pickup Roller Unit into the Shaft Support (front side) [2] of the feeder, and secure it with the bushing [3].



6. Secure the Resin Ring on the front side.

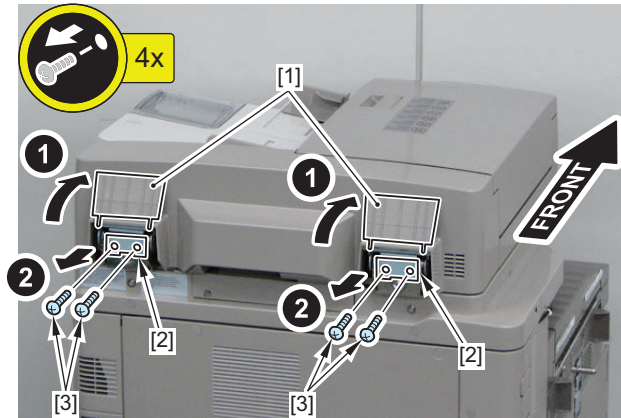
7. Install the Feeder Inner Cover (Front) and the Feeder Inner Cover (Rear).

Removing the ADF

■ Procedure

1. Open the 2 Hinge Covers [1], and remove the 2 Hinge Open/Close Guide Plates [2].

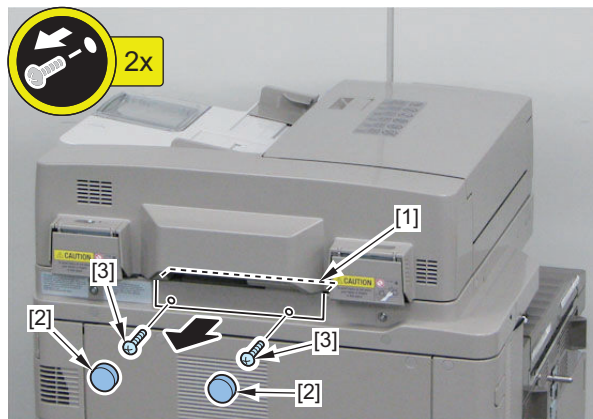
- 4 Screws [3]



2. Open the ADF.

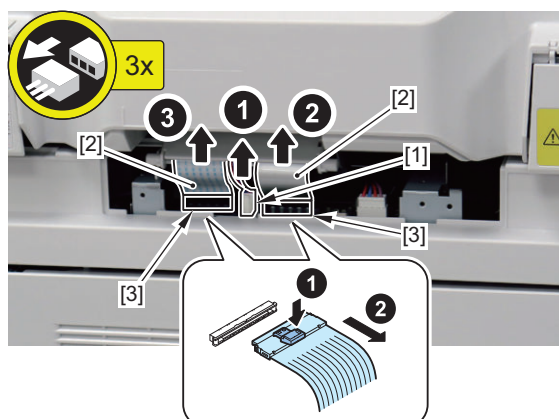
3. Remove the Reader Cable Cover [1].

- 2 Rubber Caps [2]
- 2 Screws [3]



4. Disconnect the connector [1] and the 2 Flat Cables [2] from the Reader Controller PCB.

- 2 Connectors (with a hook) [3]

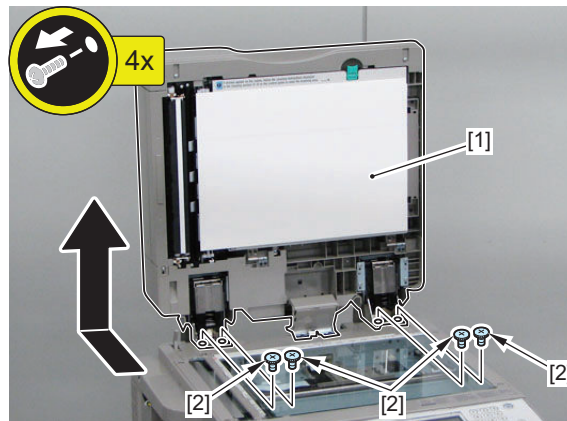
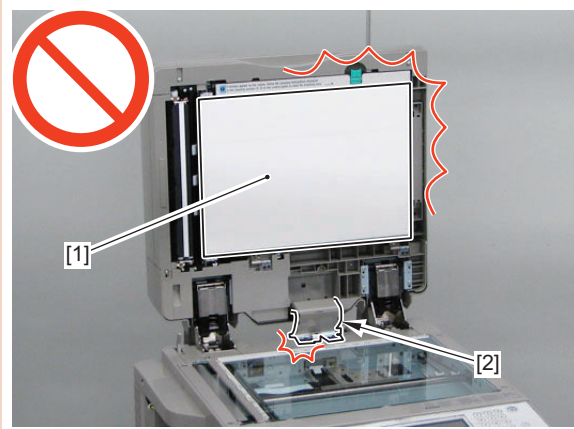


5. Remove the ADF [1].

- 4 Screws [2]

CAUTION:

- Be careful not to damage the white sheet [1] of the ADF.
- Be careful not to damage the Reader Communication Cable Guide [2] when placing the ADF.



Installing the White Plate

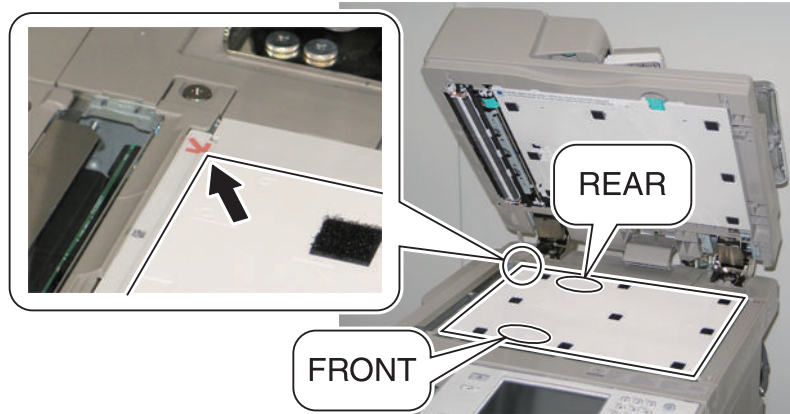
■ Preparation

1. Remove the White Plate.

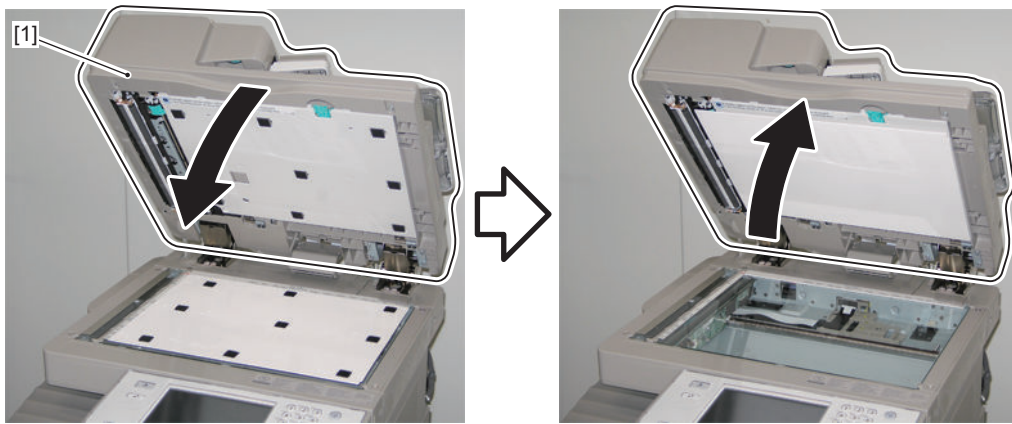
■ Procedure

1. Open the ADF.

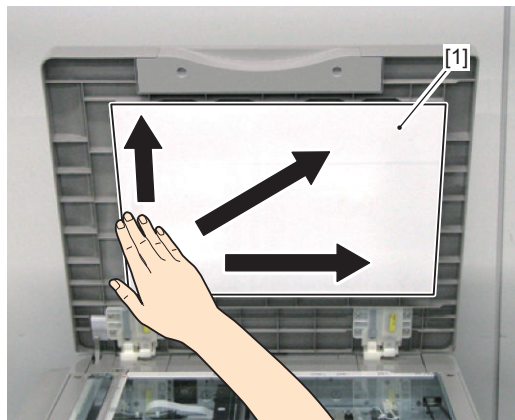
2. Place the White Plate on the Copyboard Glass while placing "Rear" on the plate on the rear side, and "Front" on the front side. Be sure to align the Index Sheet with the left side of the White Plate.



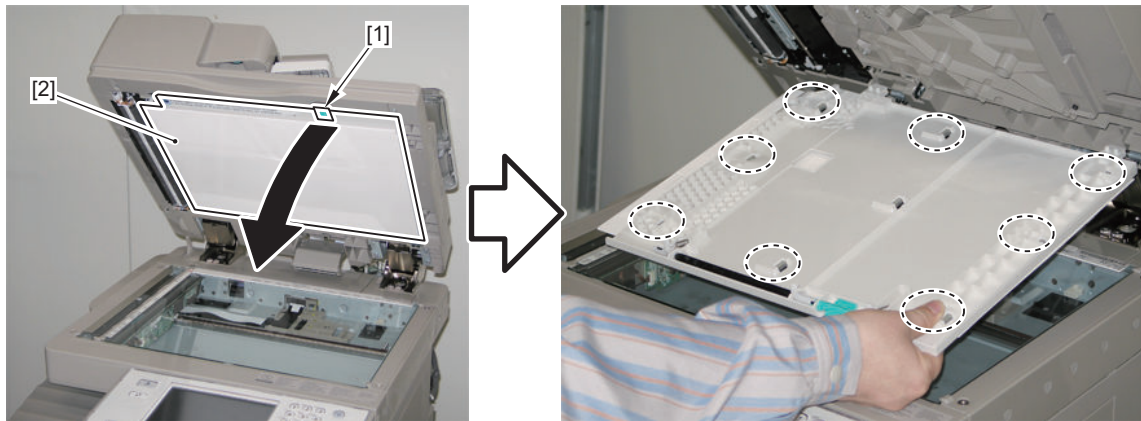
3. Close the ADF [1]. Then, open it again.



4. Press the White Plate [1] from the bottom left shown in the figure.

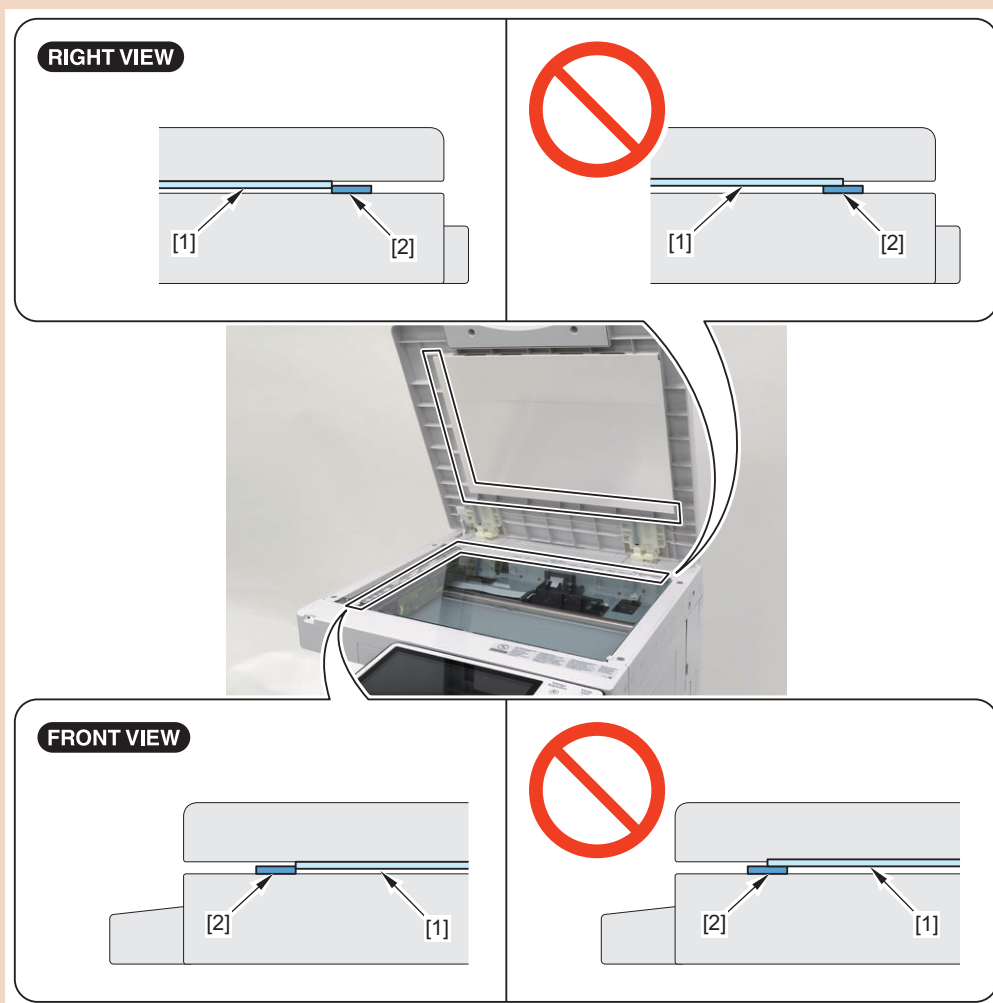


5. Pull the lever [1] on the upper side of the ADF, and open the cover [2] of the document reading area. Hold down the 8 areas indicated with circles shown in the figure below, and secure the White Plate and the cover of the ADF document reading area in place.



CAUTION:

Check that the White Plate [1] is not placed on the Index Sheet [2].



● Removing the ADF Scanner Unit

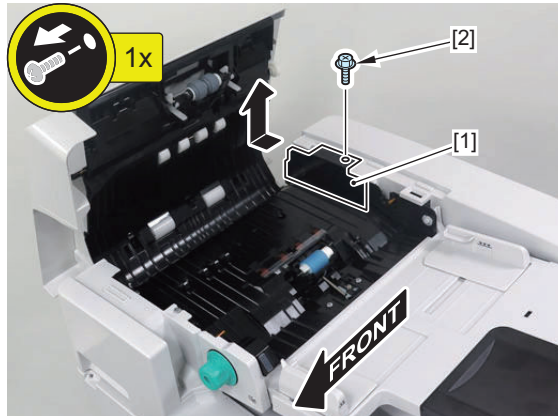
■ Preparation

1. Removing the ADF Pre-separation Unit“Removing the ADF Pre-separation Unit / ADF Separation Roller” on page 224

■ Procedure

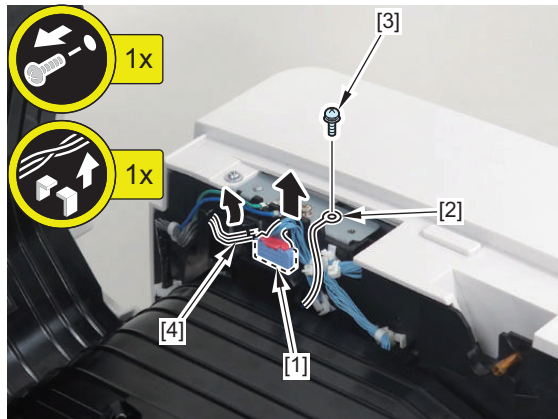
1. Remove the Upper Inner Cover [1].

- 1 Screw [2]

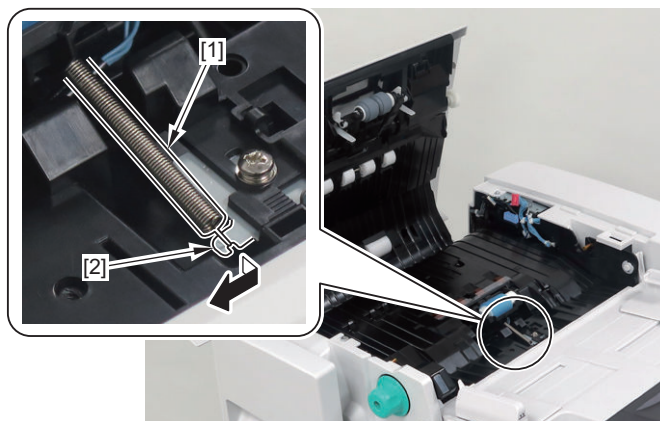


2. Remove the connector [1] and the round shape terminal [2].

- 1 Screw [3]
- 1 Harness Guide [4]

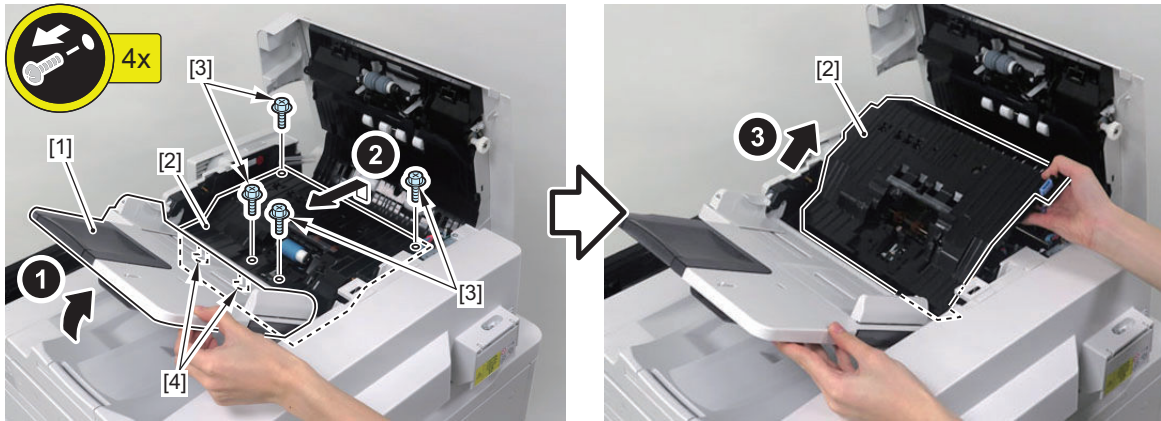


3. Free the spring [1] from the hook [2].



4. While opening the Pickup Tray [1], remove the Delivery Guide [2].

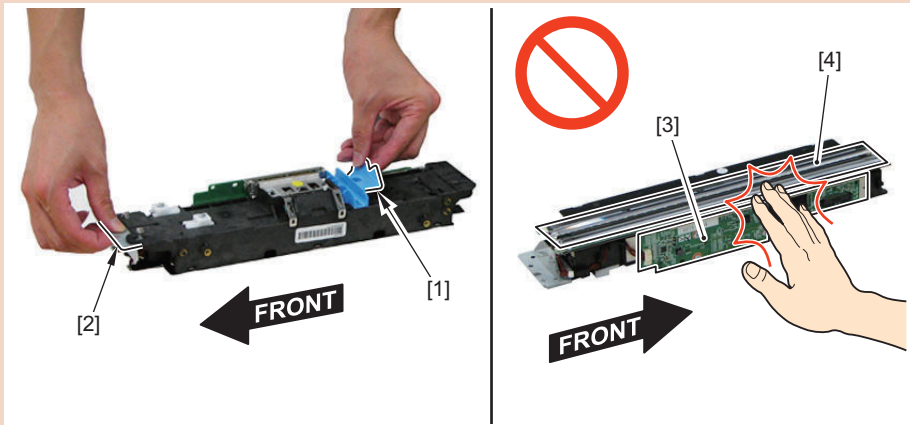
- 4 Screws [3]
- 2 Claws [4]



CAUTION:

Holding the ADF Scanner Unit

- Be sure to hold the handle [1] and the plate [2].
- Do not touch the PCB [3] and the mirror [4].

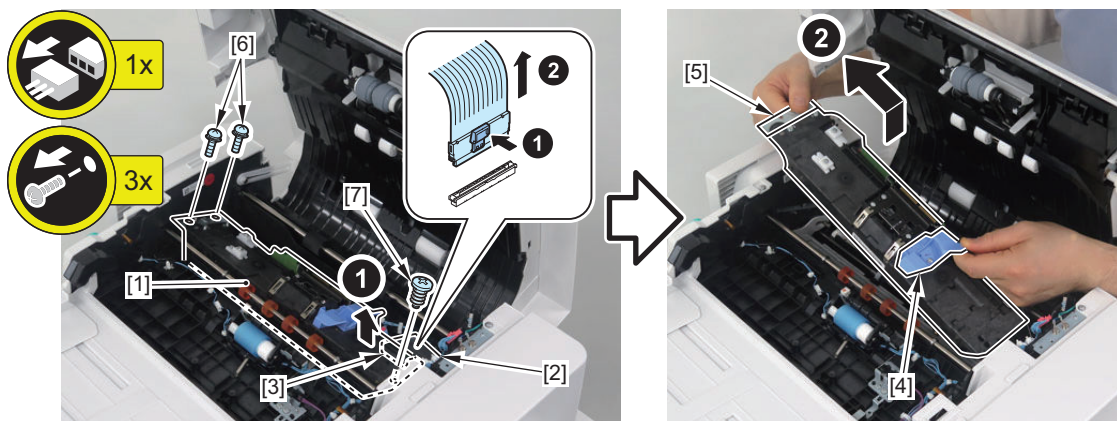


5. Disconnect the Flat Cable [2] from the ADF Scanner Unit [1].

- 1 Connector (with a hook) [3]

6. Hold the handle [4] and the plate [5], and remove the ADF Scanner Unit.

- 2 Screws (W Sems) [6]
- 1 Screw (with a spring) [7]



Cleaning the Paper Back Reading Glass

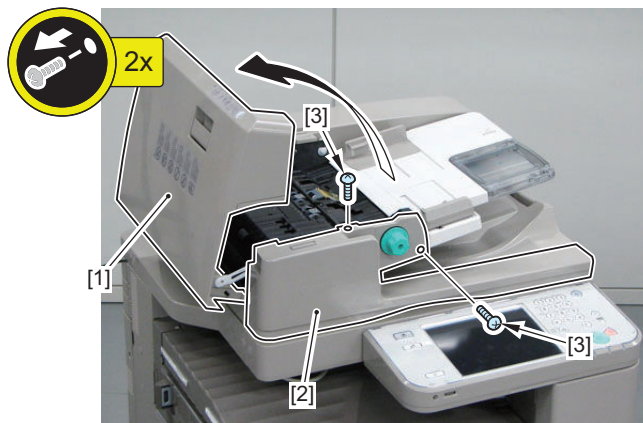
■ Procedure

1. Pass a sheet of paper on the ADF.

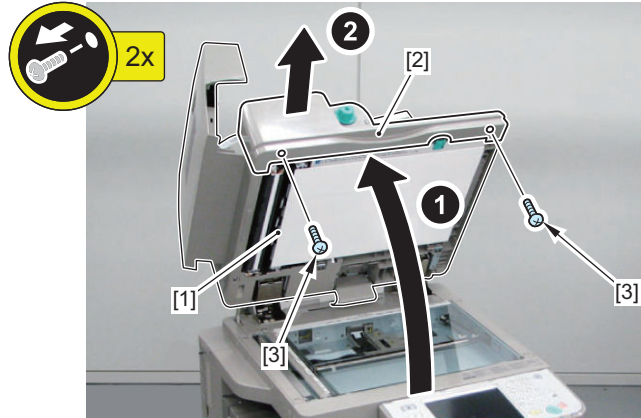
NOTE:

The ADF document reading part is moved to the position for replacing or installing the Paper Back Reading Glass after passing a sheet of paper on the ADF.

2. Open the Feeder Cover [1].
3. Remove the 2 screws [3] of the Front Cover [2].



4. Open the ADF [1] and remove the 2 screws [3] of the Front Cover [2].

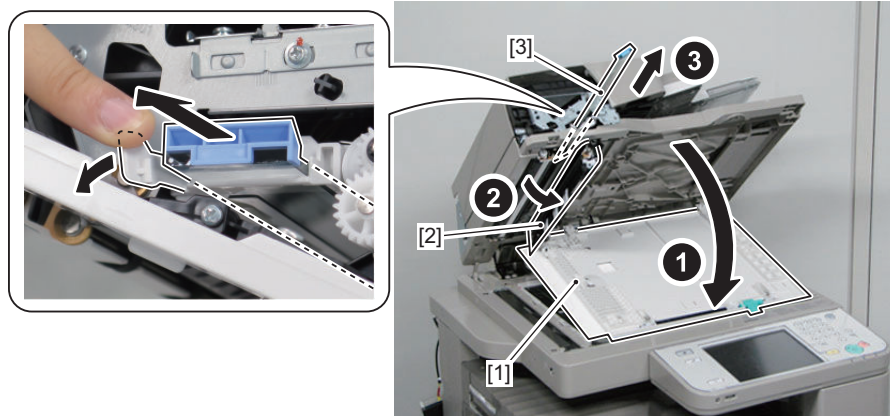


5. Open the cover [1] of the ADF document reading part.

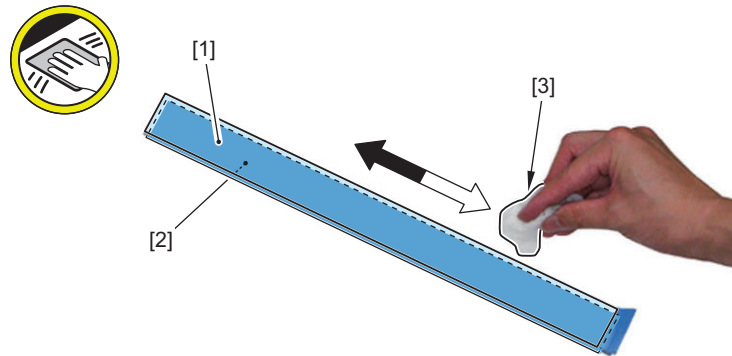
6. Open the Rear Guide [2] and remove the Paper Back Reading Glass [3].

CAUTION:

Be sure to open the Rear Guide; otherwise, the roller comes in contact with the glass.

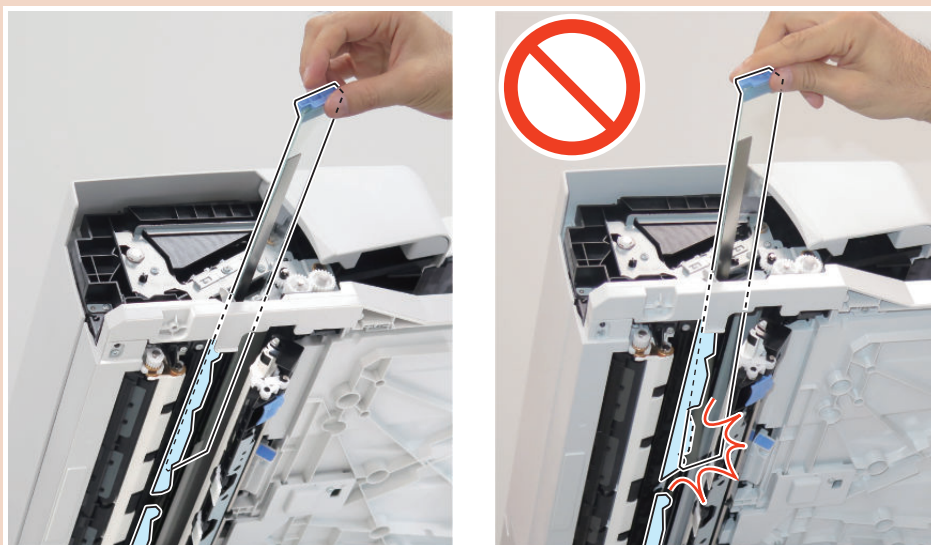


7. Clean the front surface [1] and the back surface [2] of the Paper Back Reading Glass with wet and tightly-wrung lint-free paper [3].



CAUTION:

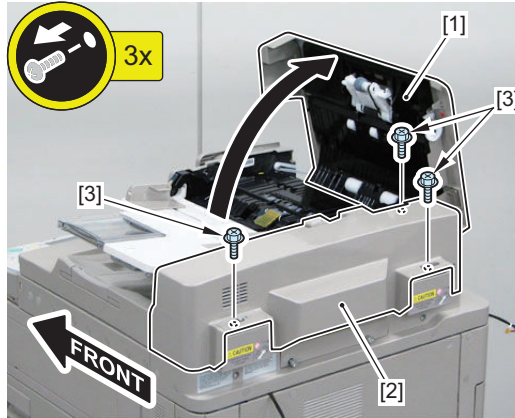
Do not attach the Paper Back Reading Glass over the mylar sheet when installing.



Removing the Rear Cover

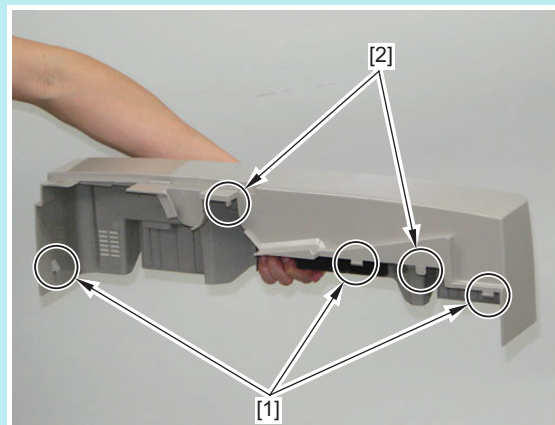
■ Procedure

1. Open the Feeder Cover [1].
2. Remove the 3 screws [3] of the Rear Cover [2].



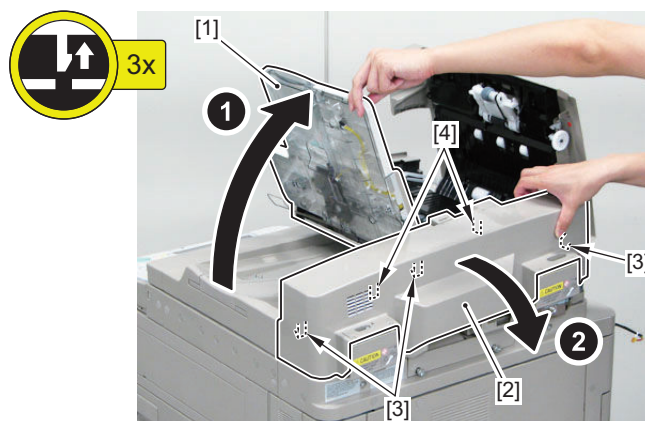
NOTE:

The figure below shows the 3 claws [1] and the 2 protrusions [2] of the Rear Cover.



3. While opening the Pickup Tray [1], remove the Rear Cover [2].

- 3 Claws [3]
- 2 Protrusions [4]



4. Remove the parts on the rear side of the ADF as needed.



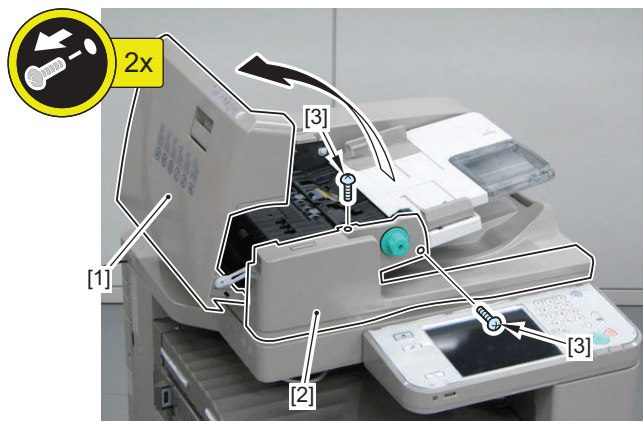
Cleaning the Lead Roller 1/2/3

■ Procedure

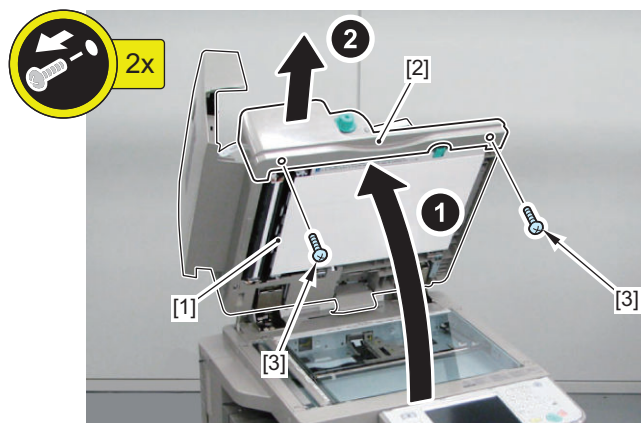
CAUTION:

To clean the Lead Roller 2 and 3, perform the procedure from step 9.

1. Open the ADF Upper Cover [1].
2. Remove the 2 screws [3] of the ADF Front Cover [2].



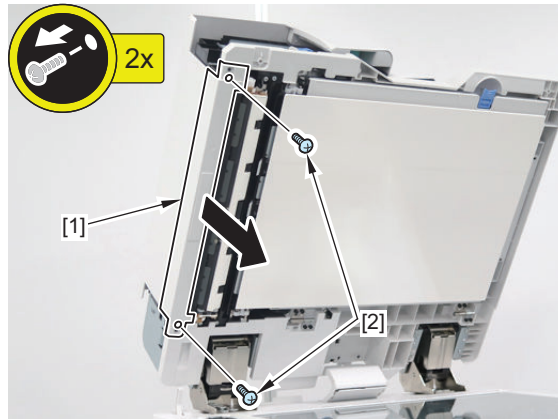
3. Open the ADF [1], and remove the 2 screws [3] of the ADF Front Cover [2].



4. Remove the ADF Rear Cover. [“Procedure” on page 239](#)

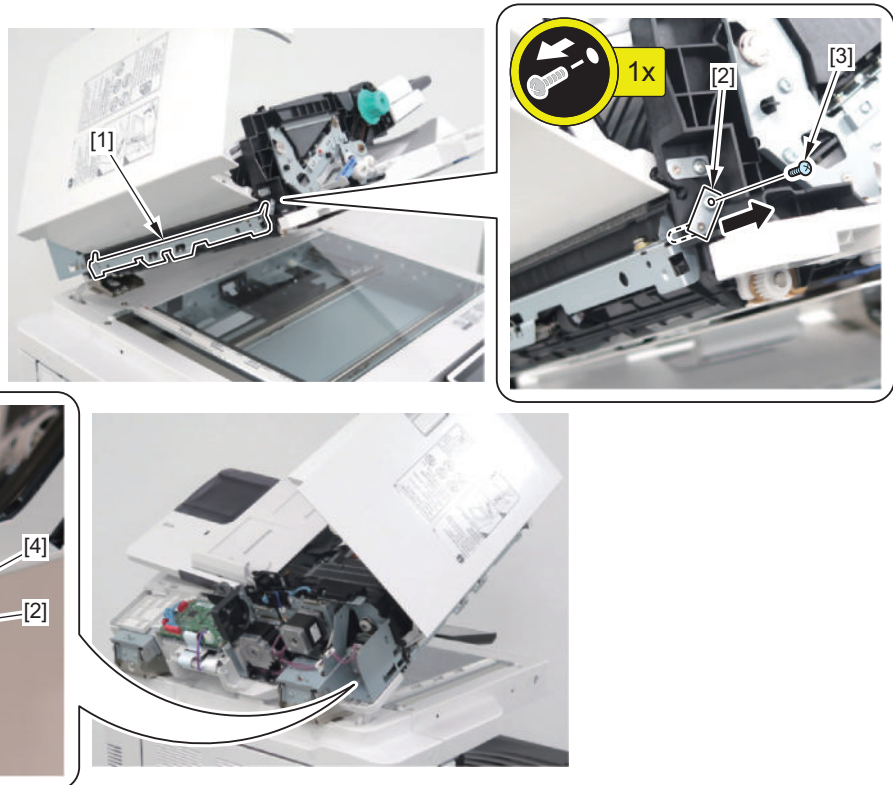
5. Remove the ADF Left Cover [1].

- 2 Screws [2]



6. Remove the screws [2] one each on the front and rear of the Pressure Plate [1] of the Lead Roller 1.

- 1 Screw [3] (P Tightening)
- 1 Screw [4] (RS Tightening)



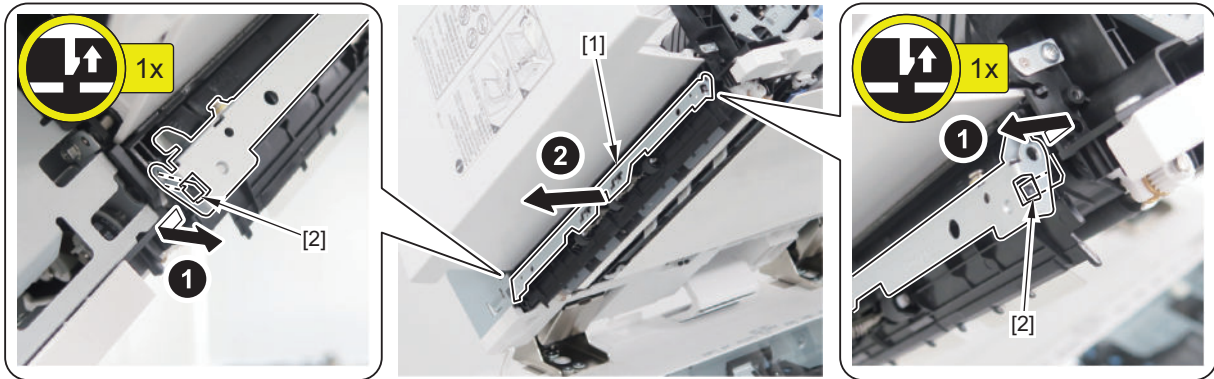
7. Release the 2 hooks [2] on the front and rear of the Pressure Plate [1], and gently remove the Pressure Plate [1].

CAUTION:

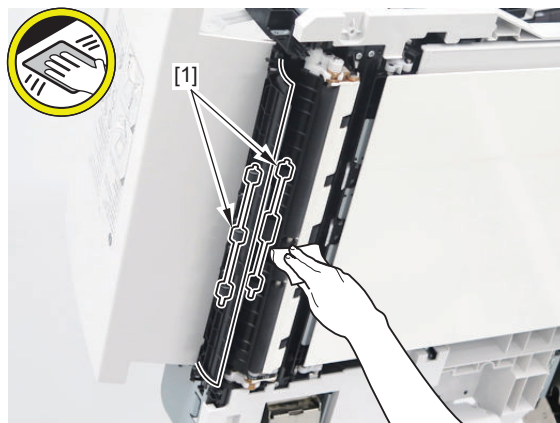
Be careful not to drop the 6 Compression Springs used inside.

NOTE:

Opening the ADF Upper Cover releases the pressure and makes it easier to perform the work.



8. Clean the Lead Roller 1 [1] with lint-free paper moistened with alcohol.



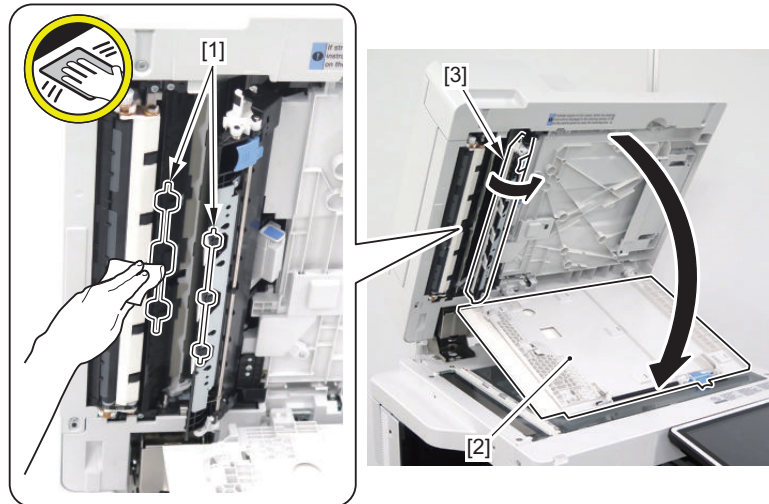
CAUTION:

When installing the Pressure Plate, check that the 6 Compression Springs are correctly set in the holder on the Lead Roller side.

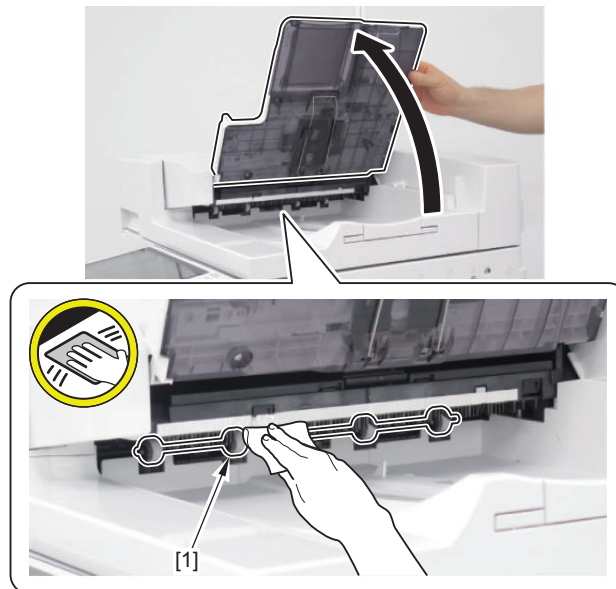
NOTE:

Opening the ADF Upper Cover releases the pressure and makes it easier to perform the work.

9. When cleaning the Lead Roller 2 [1], open the Rear Guide [3] and cover [2] of the ADF document reading area, and clean the Lead Roller 2 with lint-free paper moistened with alcohol.



10. When cleaning the Lead Roller 3 [1], lift up the ADF Document Pickup Tray, and clean the Lead Roller 3 from the original delivery outlet side with lint-free paper moistened with alcohol.



● Removing the ADF Driver PCB

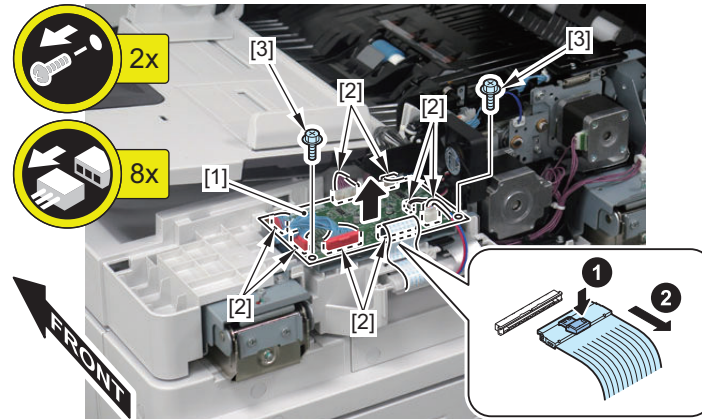
■ Preparation

1. Removing the Rear Cover“[Removing the Rear Cover](#)” on page 239

■ Procedure

1. Remove the ADF Driver PCB [1].

- 8 Connectors [2]
- 2 Screws [3]



● Removing the Reader Controller PCB

■ Procedure

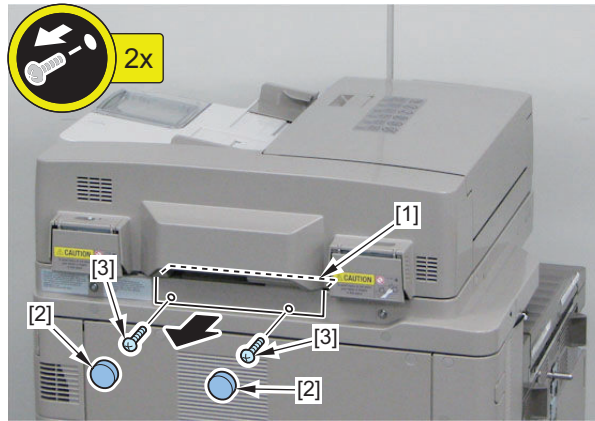
1. Lift up the hinge part [1] of the ADF to set it to the book original mode.



2. Open the ADF.

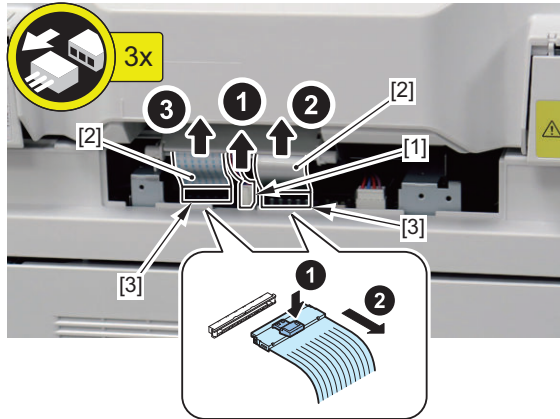
3. Remove the Reader Cable Cover [1].

- 2 Rubber Caps [2]
- 2 Screws [3]



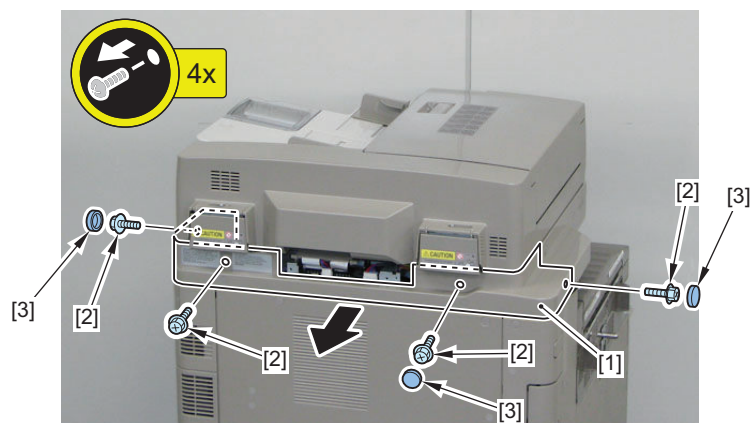
4. Disconnect the connector [1] and the 2 Flat Cables [2] from the Reader Controller PCB.

- 2 Connectors (with a hook) [3]



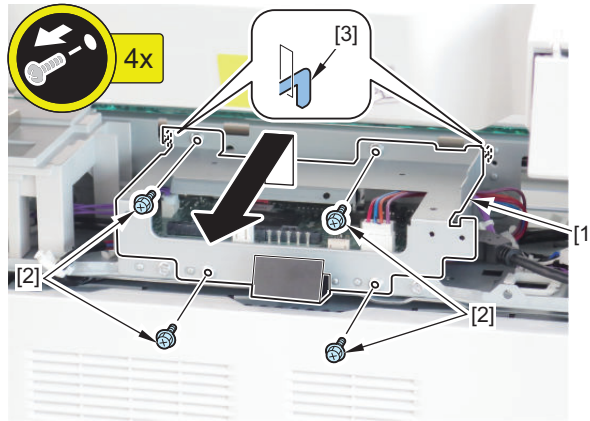
5. Remove the Reader Rear Cover [1].

- 4 Screws [2]
- 3 Rubber Caps [3]



6. Remove the Reader Controller PCB Cover Plate [1].

- 4 Screws [2]
- 2 Hooks [3]

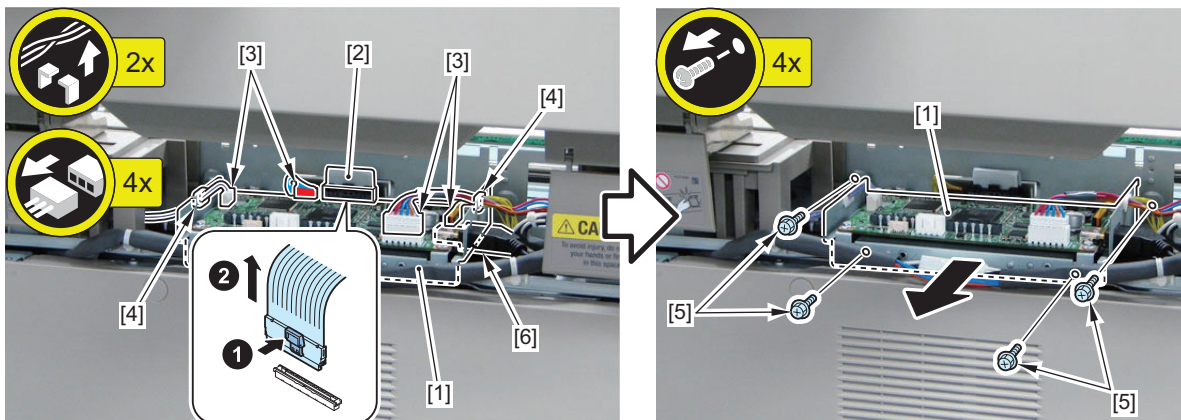


7. Remove the Flat Cable [2] from the Reader Controller PCB [1].

- 1 Connector (with a hook)

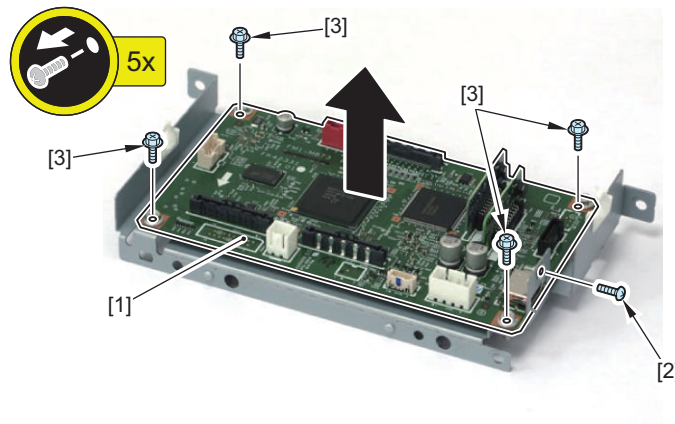
8. Remove the Reader Controller PCB Unit.

- 1 Flat Cable [2]
- 4 Connectors [3]
- 2 Edge Saddles [4]
- 4 Screws [5]
- 1 Video Cable [6]



9. Remove the Reader Controller PCB [1].

- 1 Screw [2]
- 4 Screws [3]

**NOTE:**

When installing the Reader Controller PCB [1], tighten the screw [2] first.

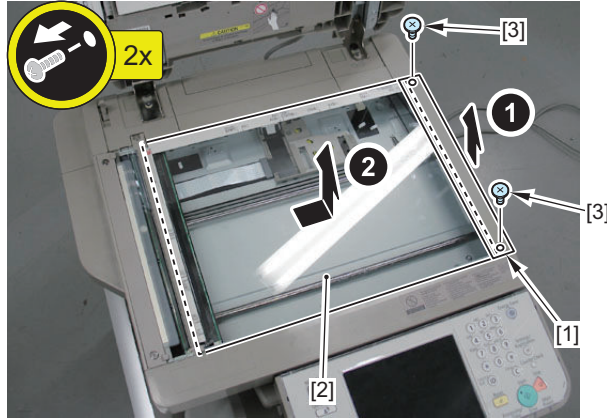
Cleaning the Reader Scanner Unit Scanner Mirror

■ Procedure

1. Open the ADF.

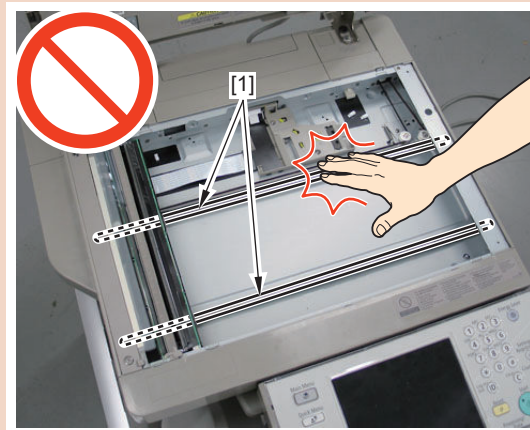
2. Remove the Glass Retainer (Right) [1] and then remove the Copyboard Glass [2].

- 2 Screws [3]

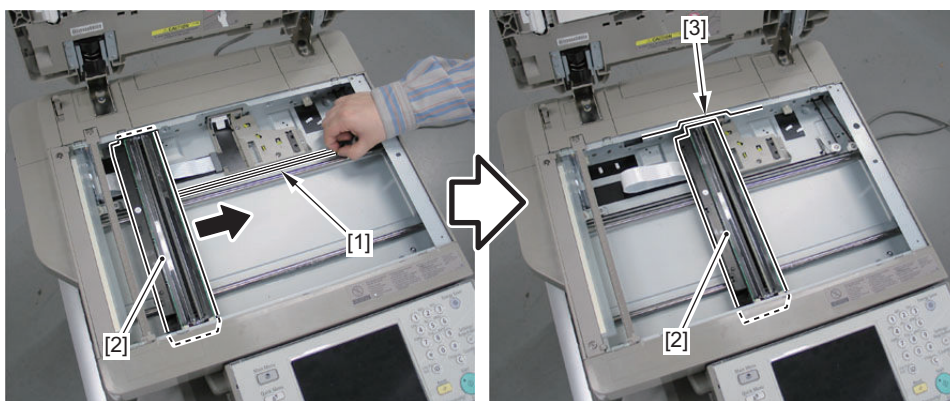


CAUTION:

Grease is applied on the 2 Rail Shafts [1] of the Reader Scanner Unit. If you have touched the grease, be careful not to put it to other parts.

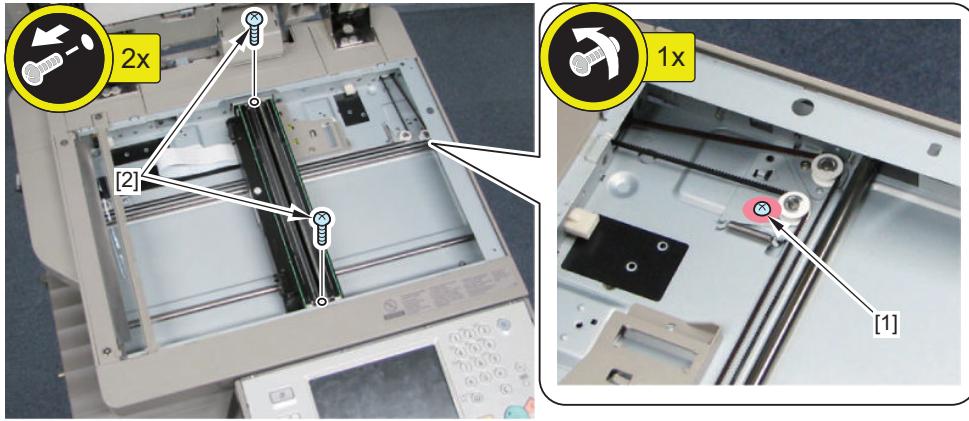


3. Move the belt [1], and move the Reader Scanner Unit [2] to the cut-off [3] of the Reader Unit.

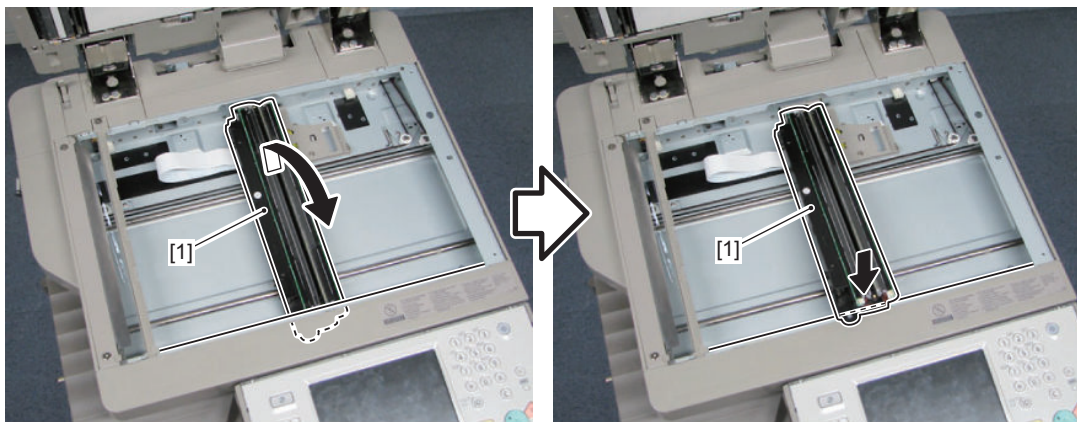


4. Loosen the screw [1] to release the tension applied on the belt.

5. Remove the 2 screws [2] securing the LED Unit.

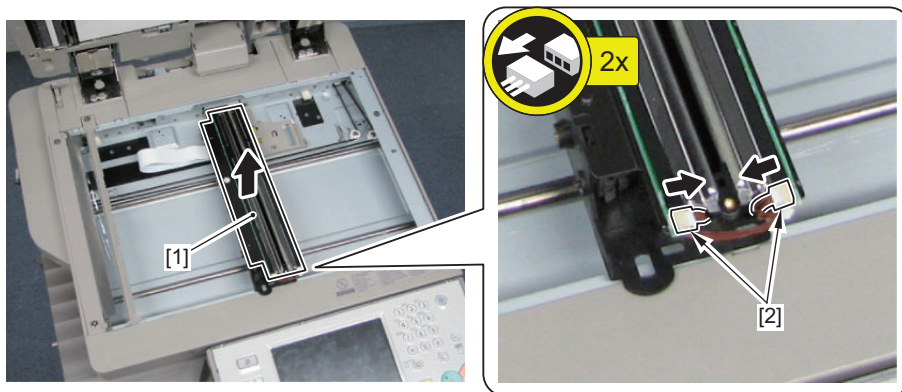


6. Move the Reader Scanner Unit in the direction of the arrow while paying attention not to make it contact with the frame of the Reader, and place it as shown in the figure below.



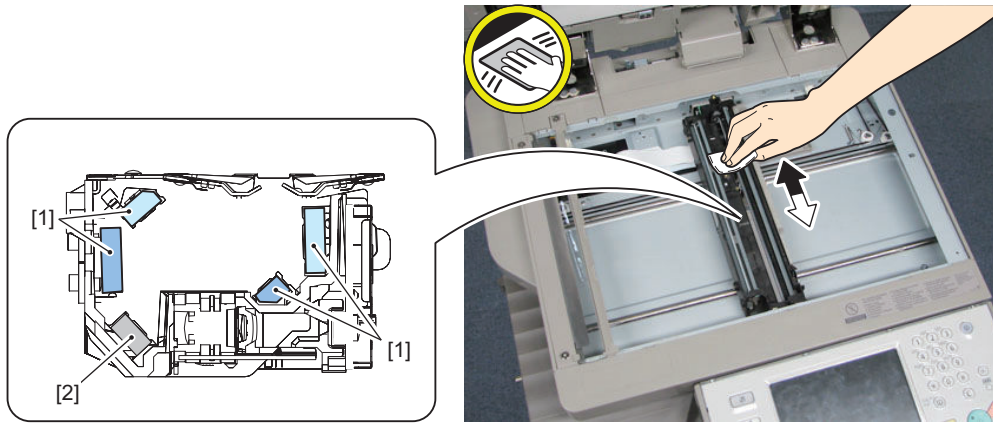
7. Remove the LED Unit [1].

- 2 Connectors [2]
- 3 Hooks



8. Return the Scanner Unit to its original position.

9. Clean the mirror [1] with lint-free paper. The following 4 mirrors can be cleaned.



NOTE:

The rearmost mirror [2] cannot be cleaned. However, it is a dustproof mirror, so there is no need to clean it.

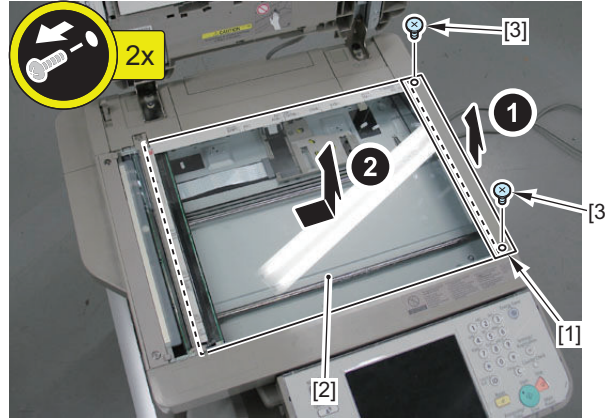
● Removing the Reader Scanner Unit

■ Procedure

1. Open the ADF [1].

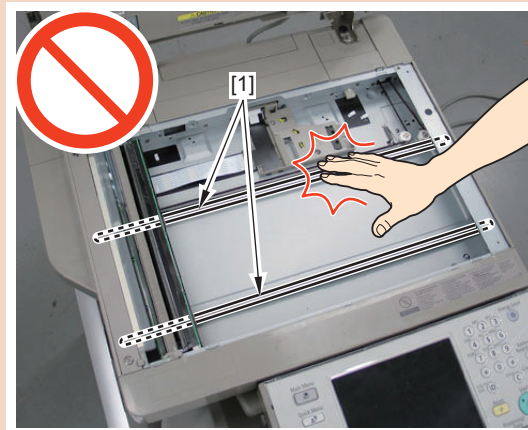
2. Remove the Glass Retainer (Right) [1] and then remove the Copyboard Glass [2].

- 2 Screws [3]

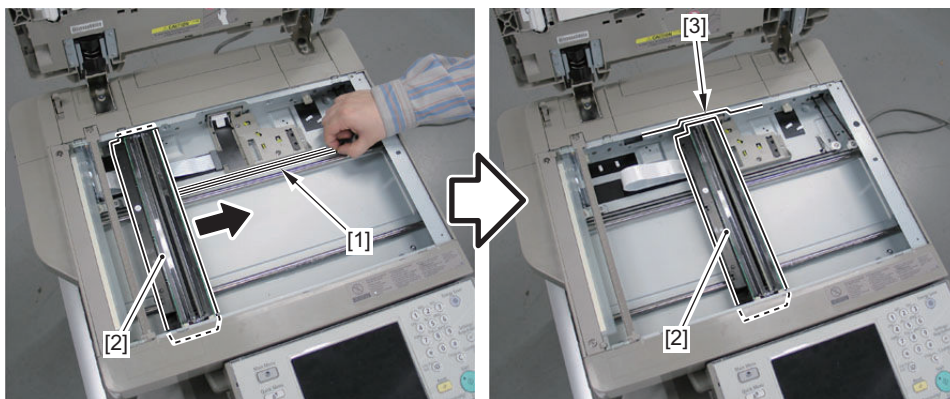


CAUTION:

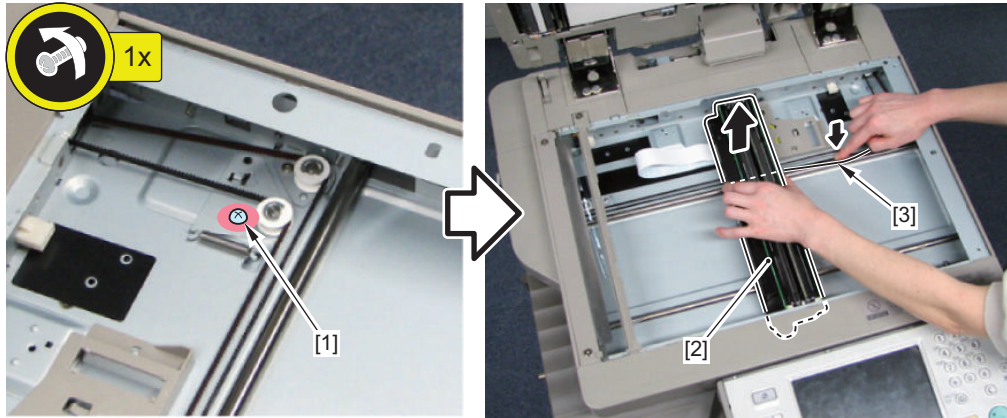
Grease is applied on the 2 Rail Shafts [1] of the Reader Scanner Unit. If you have touched the grease, be careful not to put it to other parts.



3. Move the belt [1], and move the Reader Scanner Unit [2] to the cut-off [3] of the Reader Unit.



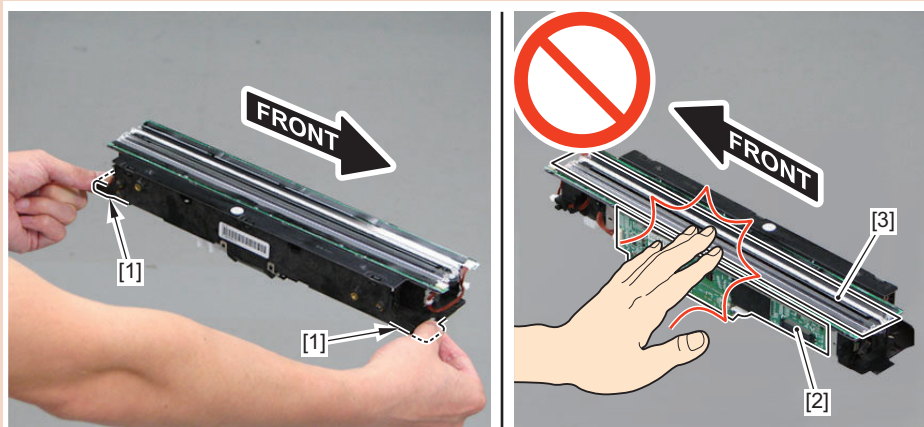
4. Loosen the screw [1] to release the tension applied on the belt. After that, remove the belt [3] from the Reader Scanner Unit [2].



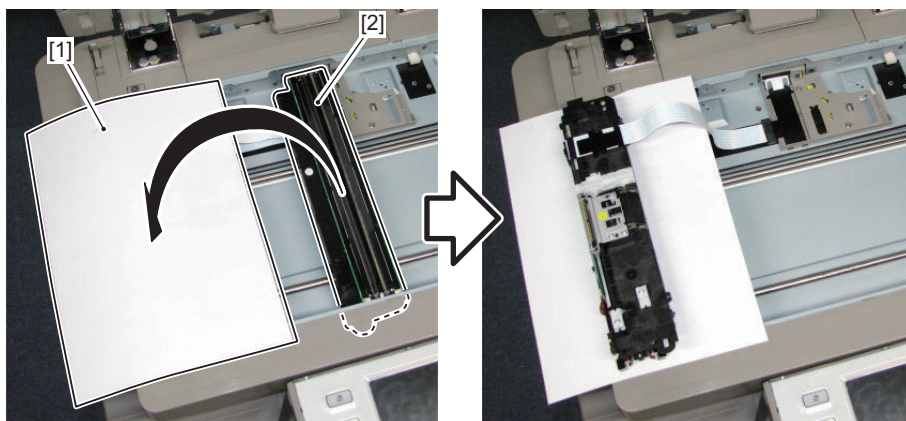
CAUTION:

Holding the Reader Scanner Unit

- Be sure to hold both edges [1].
- Do not touch the PCB [2] and the mirror [3].

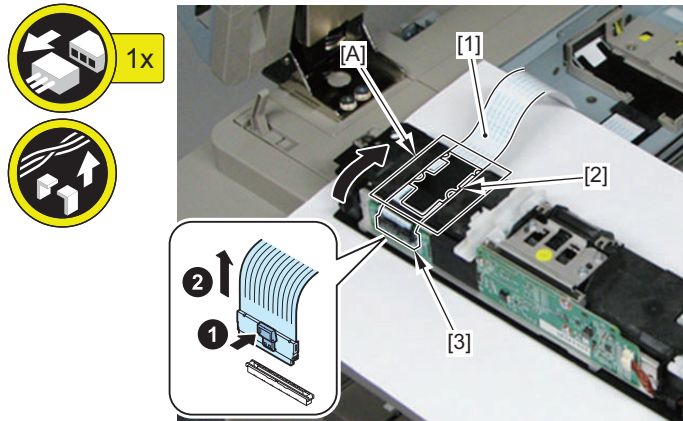


5. Place paper [1] on the Stream Reading Glass, and place the Reader Scanner Unit on it with its upside [2] down.



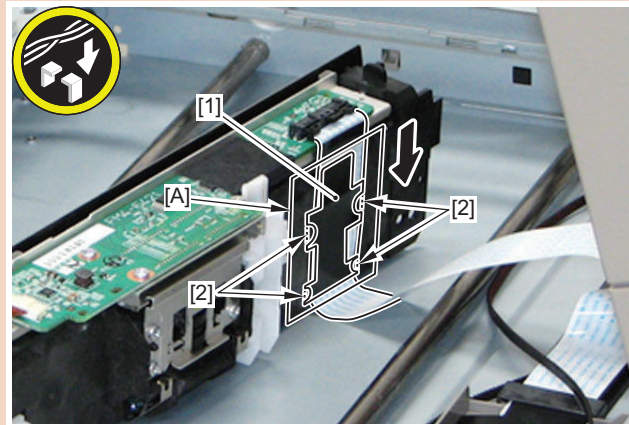
6. Disconnect the Flat Cable [1] (with Protection Sheet [2]) from the Reader Scanner Unit.

- 1 Connector (with a hook) [3]
- Guide [A]



CAUTION:

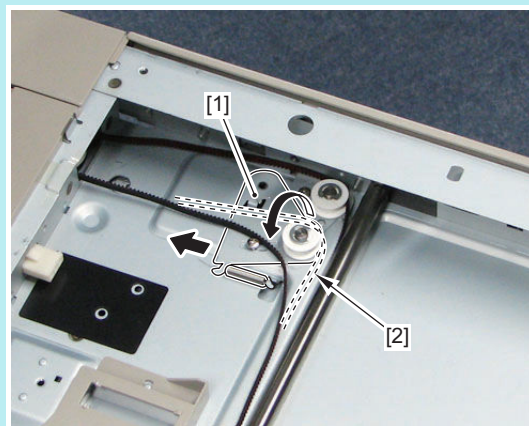
When installing the Reader Scanner Unit, be sure to insert the 4 protrusions [2] of the Flat Cable Protection Sheet [1] into the guide [A].



NOTE:

Installation Procedure

When installing the belt to the Reader Scanner Unit, it can be installed easily by removing the belt [2] from the pulley [1].



Main Controller System

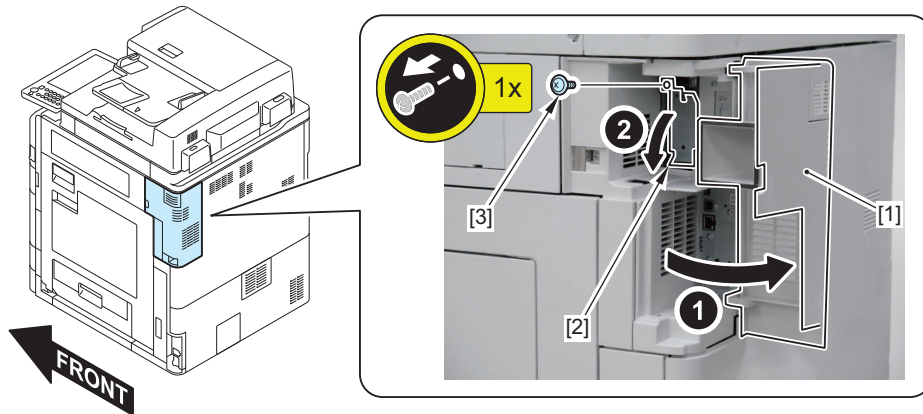
● Removing the HDD

■ Preparation

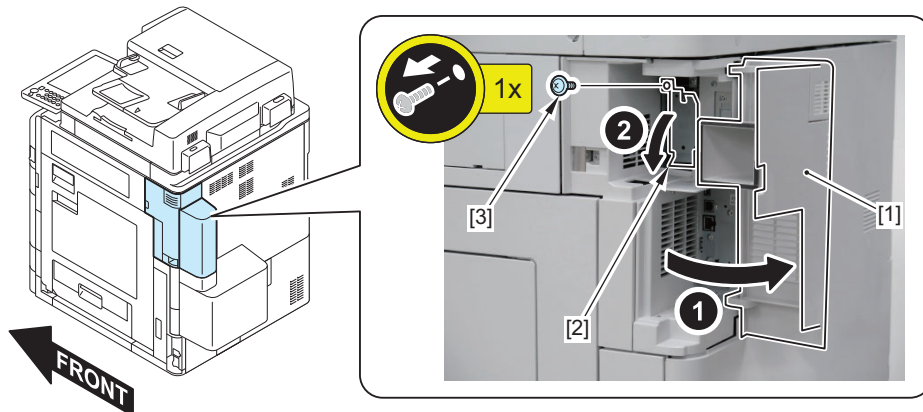
CAUTION:

Actions before Replacement: "Hard Disk" on page 474

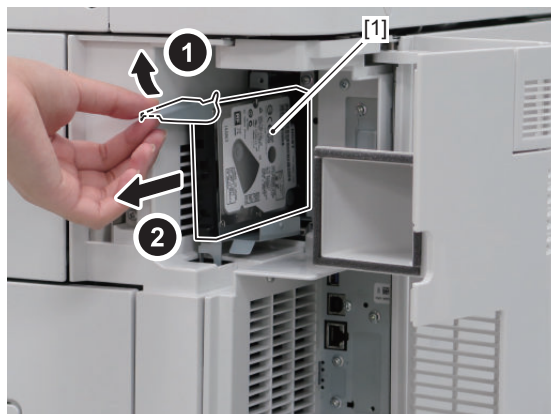
1. Open the Right Rear Cover [1].
2. Open the HDD Cap [2].
 - 1 Screw [3]



<For the Duct Model (EUR only)>

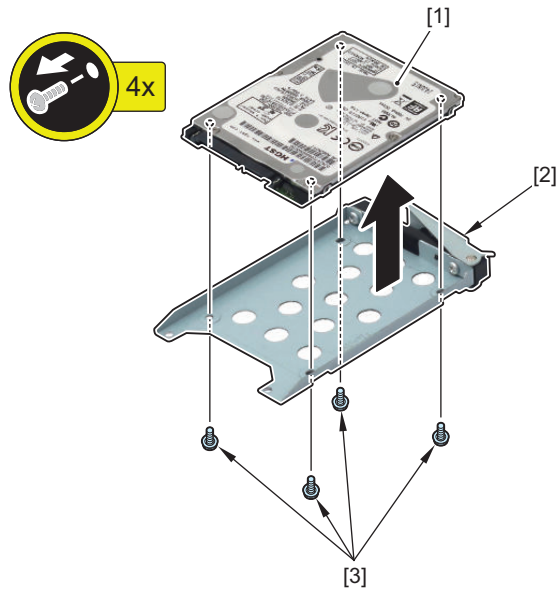


3. Remove the HDD Unit [1].



4. Remove the HDD [1] from HDD Support Plate [2].

- 4 Screws [3]

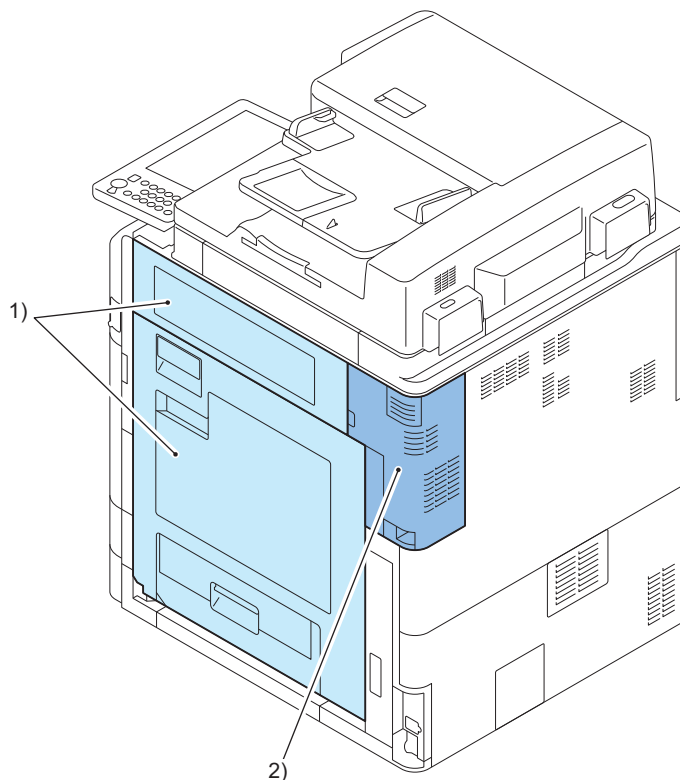
**CAUTION:**

Actions after Replacement: [“Actions after Parts Replacement ” on page 476](#)

Removing the Main Controller PCB

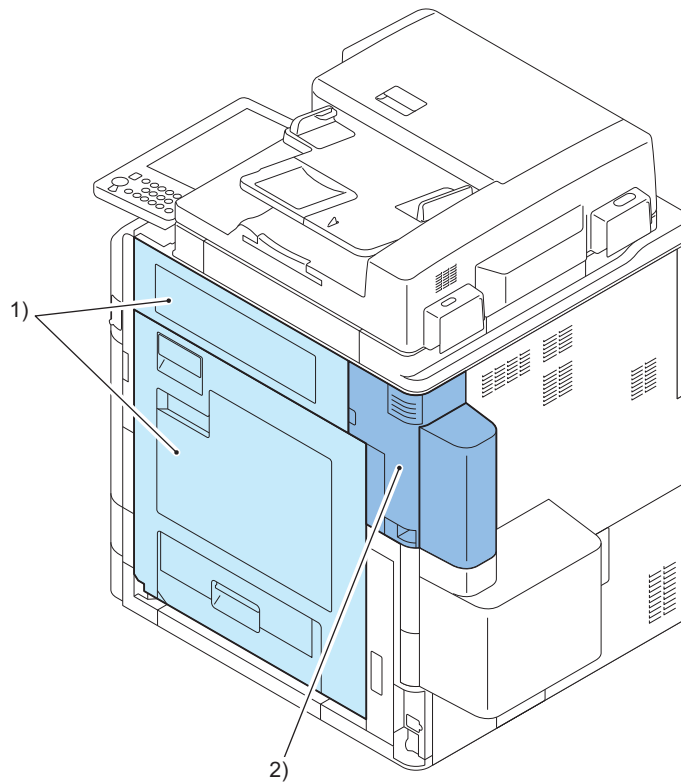
■ Preparation

1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Right Rear Cover.
 - 3 Screws (Binding)



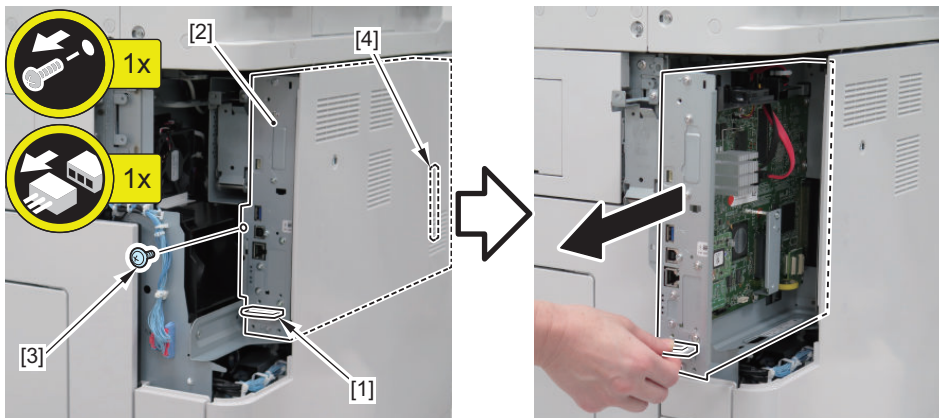
• For the Duct Model (EUR only)

1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Right Rear Cover.
 - 3 Screws (Binding)

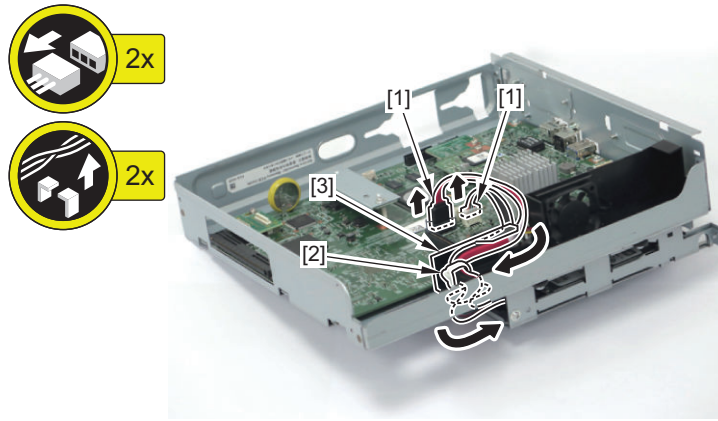


■ Procedure

1. Hold the handle [1] and remove the Main Controller PCB [2].
 - 1 Screw [3]
 - 1 Board-to-Board Connector [4]



2. Remove the 2 connectors [1], Wire Saddle [2], and Harness Guide [3] from the PCB.

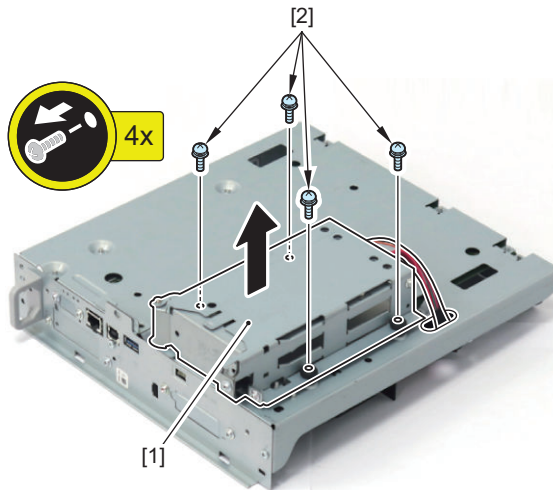


3. Turn over the Main Controller PCB and remove the HDD Unit [1].

- 4 Screws [2]

CAUTION:

Do not transfer the HDD unit [1] to another model (which has a different serial number).
If you fail to do so, the Main Body does not activate normally and this might cause to fail the restoration.

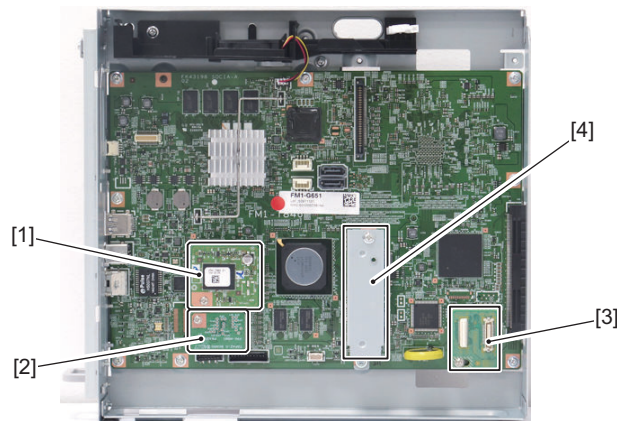


4. Be sure to remove the parts from the old PCB to the new PCB.

CAUTION:

Do not transfer the following parts to another model (which has a different serial number).
If you fail to do so, the Main Body does not activate normally and this might cause to fail the restoration.

- Flash PCB [1]
- TPM PCB [2]
- Memory PCB [3]
- Bypass PCB [4]

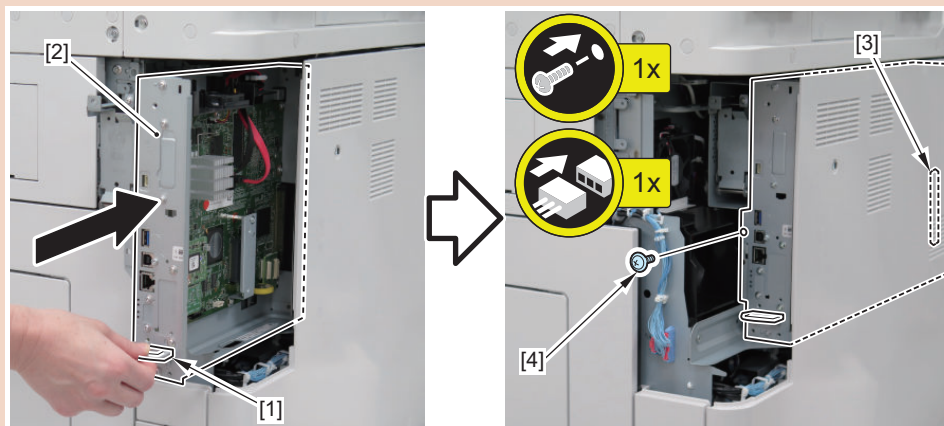


- After replacement of the Main Controller PCB, there is no need to set/register the data again.

CAUTION:

When installing, hold the handle [1], insert the Main Controller PCB [2], check the connection of the Board-to-Board Connector [3], and secure it with the screw [4].

- 1 Screw



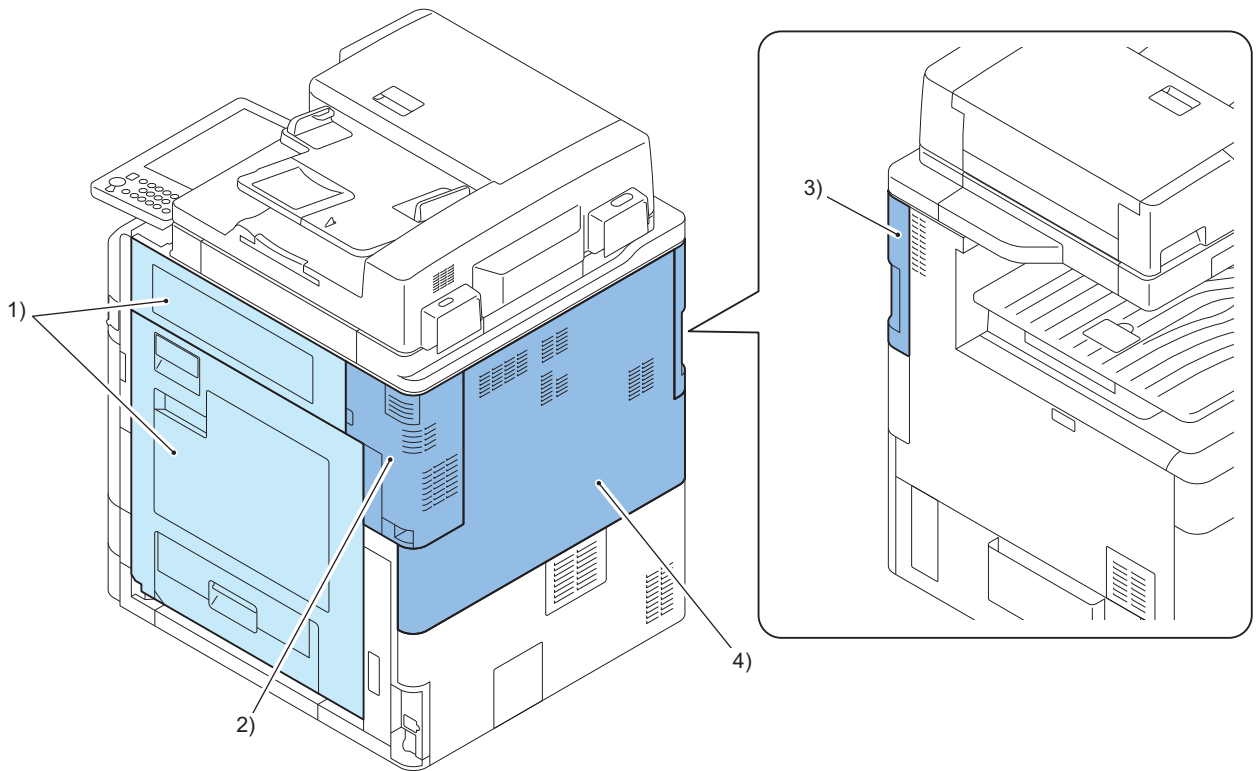
● Removing the Riser PCB

■ Preparation

1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Right Rear Cover.
3. Removing the Left Rear Cover.

4. Removing the Rear Upper Cover.

- 1 Rubber Cap
- 4 Screws (Binding)
- 1 Claw



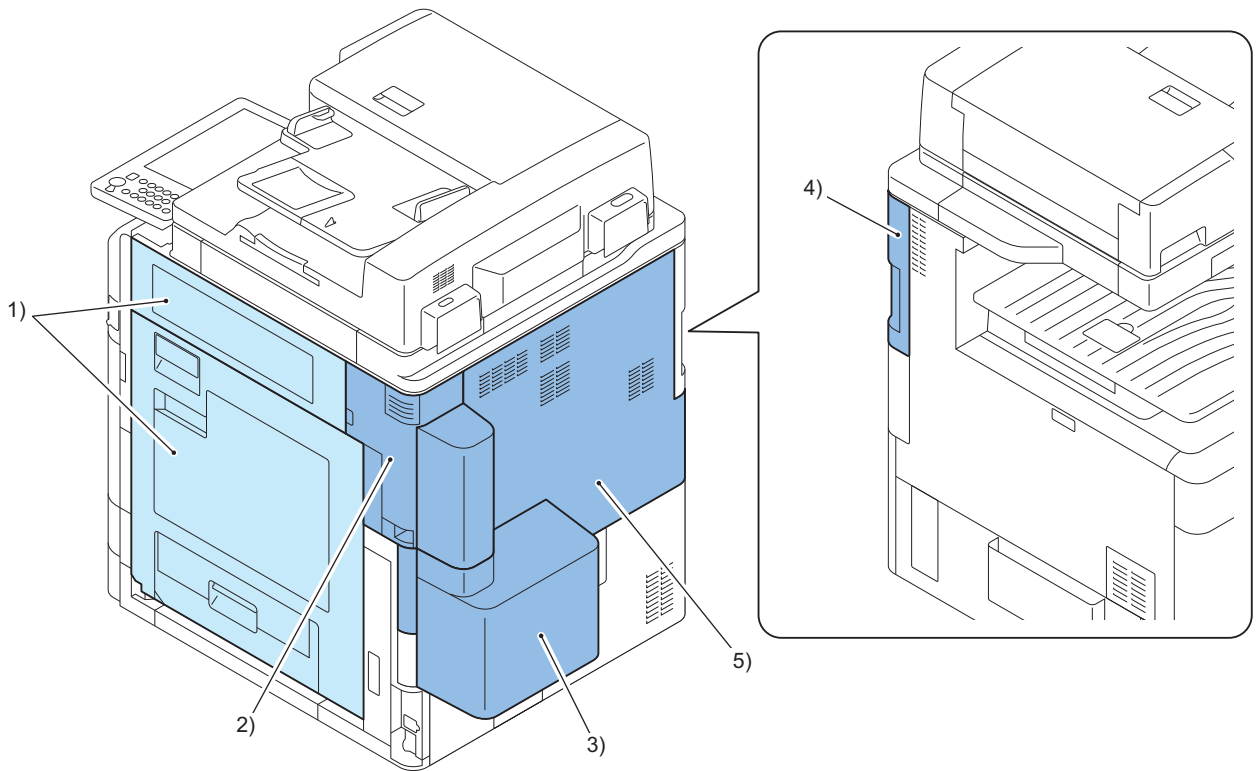
5. Removing the Main Controller PCB [“Removing the Main Controller PCB” on page 255](#)

• For the Duct Model (EUR only)

1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Right Rear Cover
3. Removing the Left Rear Cover
4. Removing the Duct Lower Cover
 - 3 Screws

5. Removing the Rear Upper Cover

- 1 Rubber Cap
- 4 Screws
- 1 Claw

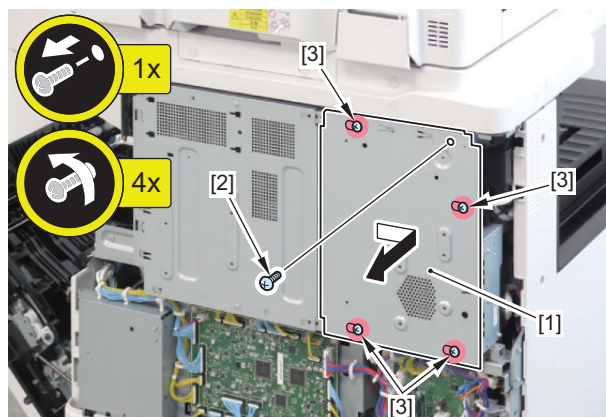


6. Removing the Main Controller PCB. "Removing the Main Controller PCB" on page 255

■ Procedure

1. Remove the Shield Plate [1].

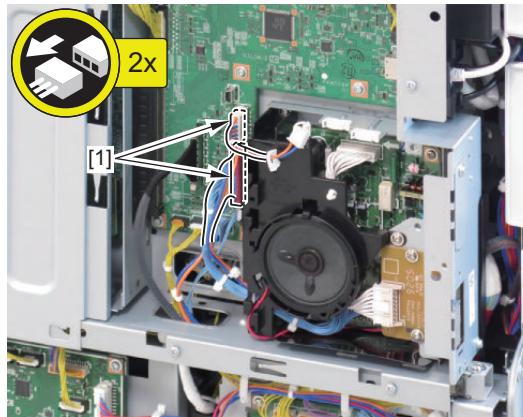
- 1 Screw [2]
- 4 Screws [3] (to loosen)



2. If the Fax Unit is installed, disconnect the 2 connectors [1] from the Fax Unit.

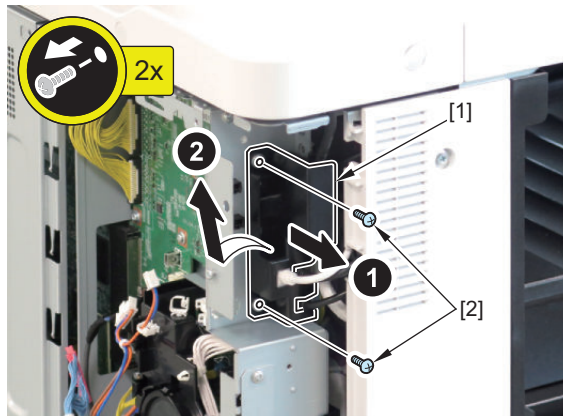
CAUTION:

When there are 2 to 4 additional Fax lines, remove them beforehand.

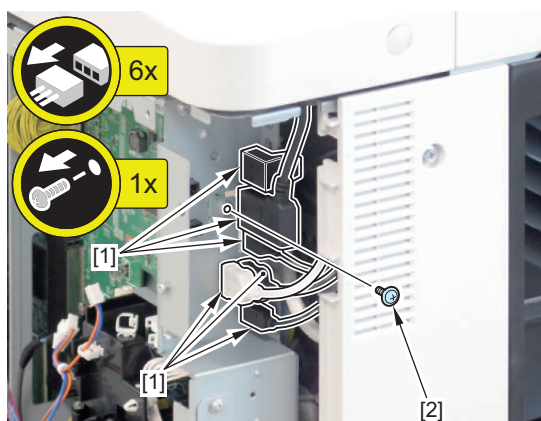


3. Remove the Connector Cover [1] avoiding the harness.

- 2 Screws [2]

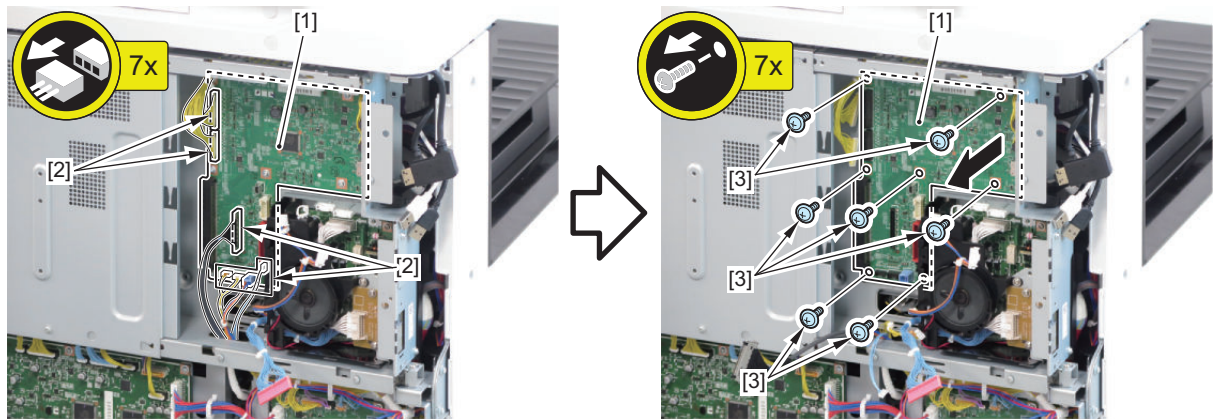


4. Remove the 6 cables [1] and the screw [2].



5. Remove the Riser PCB [1].

- 7 Connectors [2]
- 7 Screws [3]

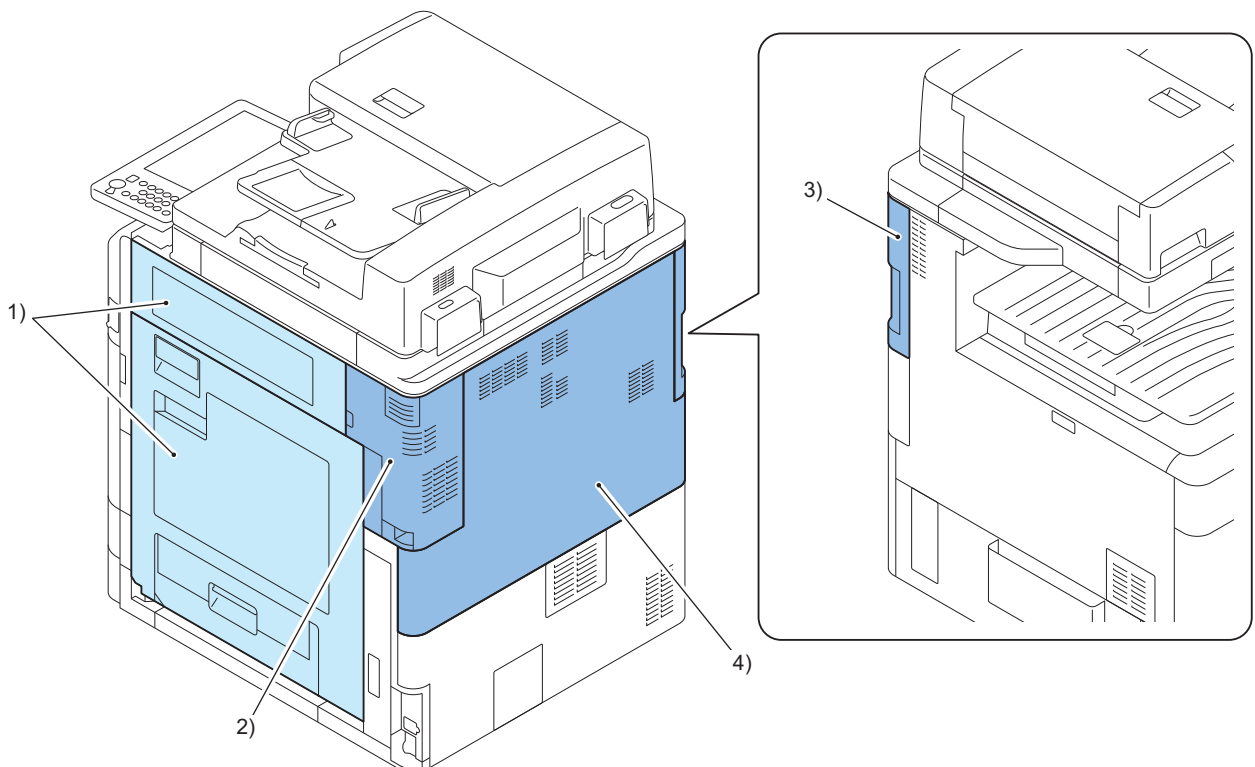
**NOTE:**

If the Fax Unit is installed, connect the connectors.

Opening the Controller Box

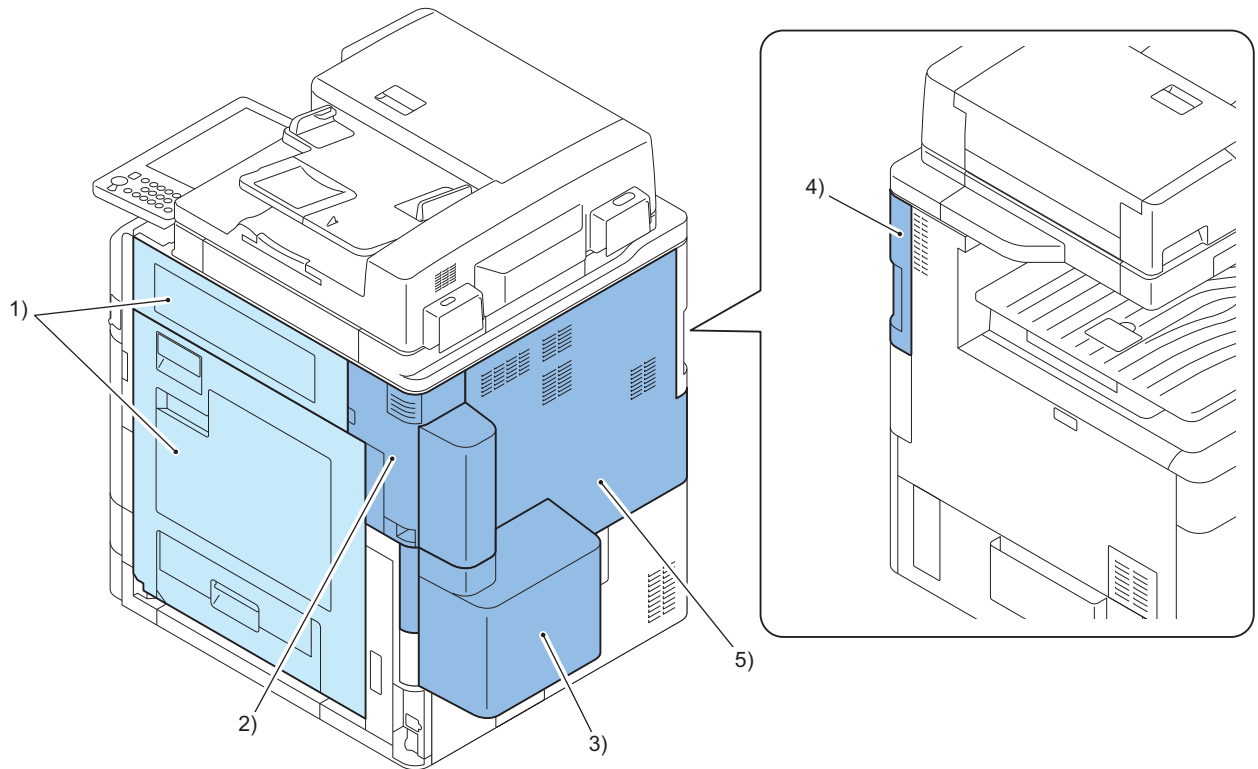
■ Preparation

1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Right Rear Cover.
3. Removing the Left Rear Cover.
4. Removing the Rear Upper Cover.
 - 1 Rubber Cap
 - 4 Screws (Binding)
 - 1 Claw



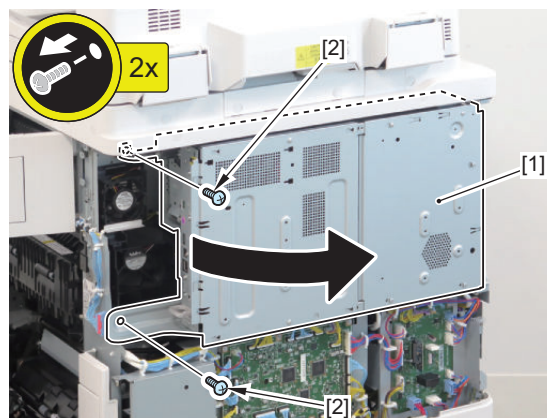
● **For the Duct Model (EUR only)**

1. **Open the Right Lower Cover and the Right Upper Cover.**
2. **Removing the Right Rear Cover**
3. **Removing the Left Rear Cover**
4. **Removing the Duct Lower Cover**
 - 3 Screws
5. **Removing the Rear Upper Cover**
 - 1 Rubber Cap
 - 4 Screws
 - 1 Claw



■ **Procedure**

1. **Open the Controller Box [1].**
 - 2 Screws [2]



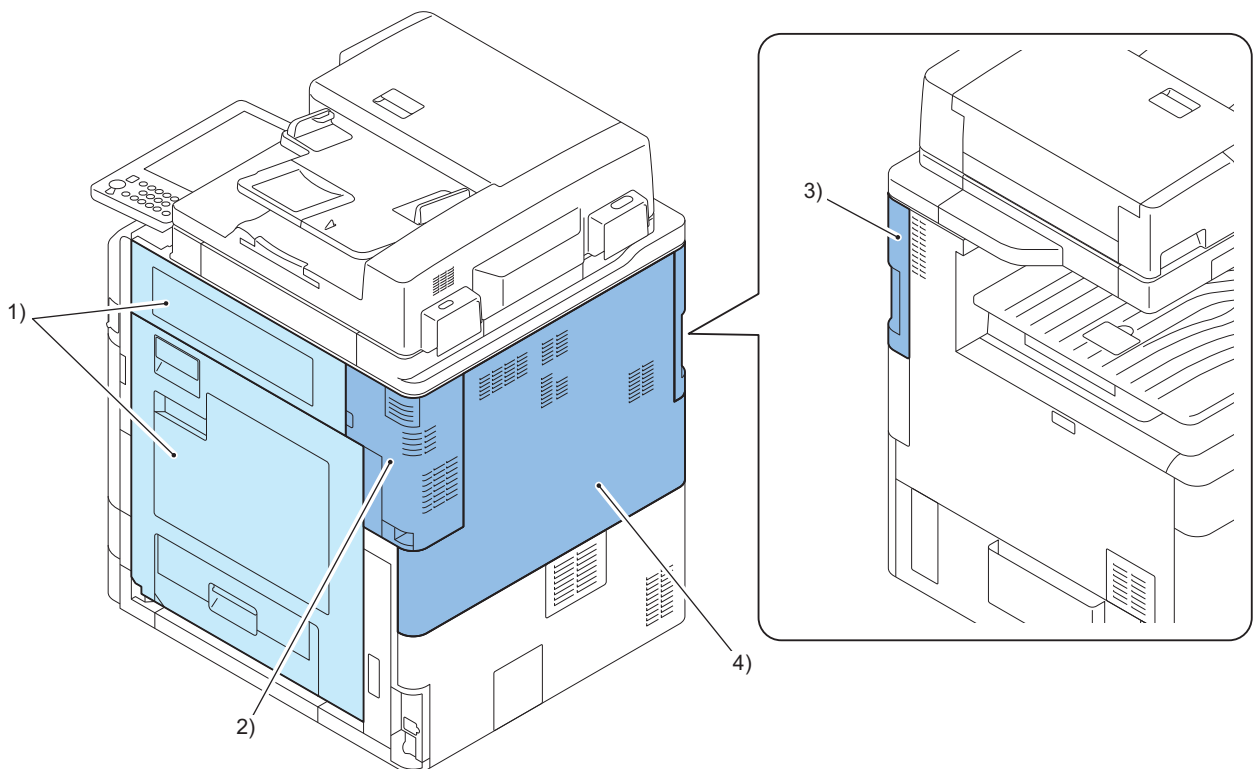
● Removing the DC Controller PCB

■ Preparation

CAUTION:

Actions before Replacement: [“Before Parts Replacement”](#) on page 473

1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Right Rear Cover.
3. Removing the Left Rear Cover.
4. Removing the Rear Upper Cover.
 - 1 Rubber Cap
 - 4 Screws (Binding)
 - 1 Claw



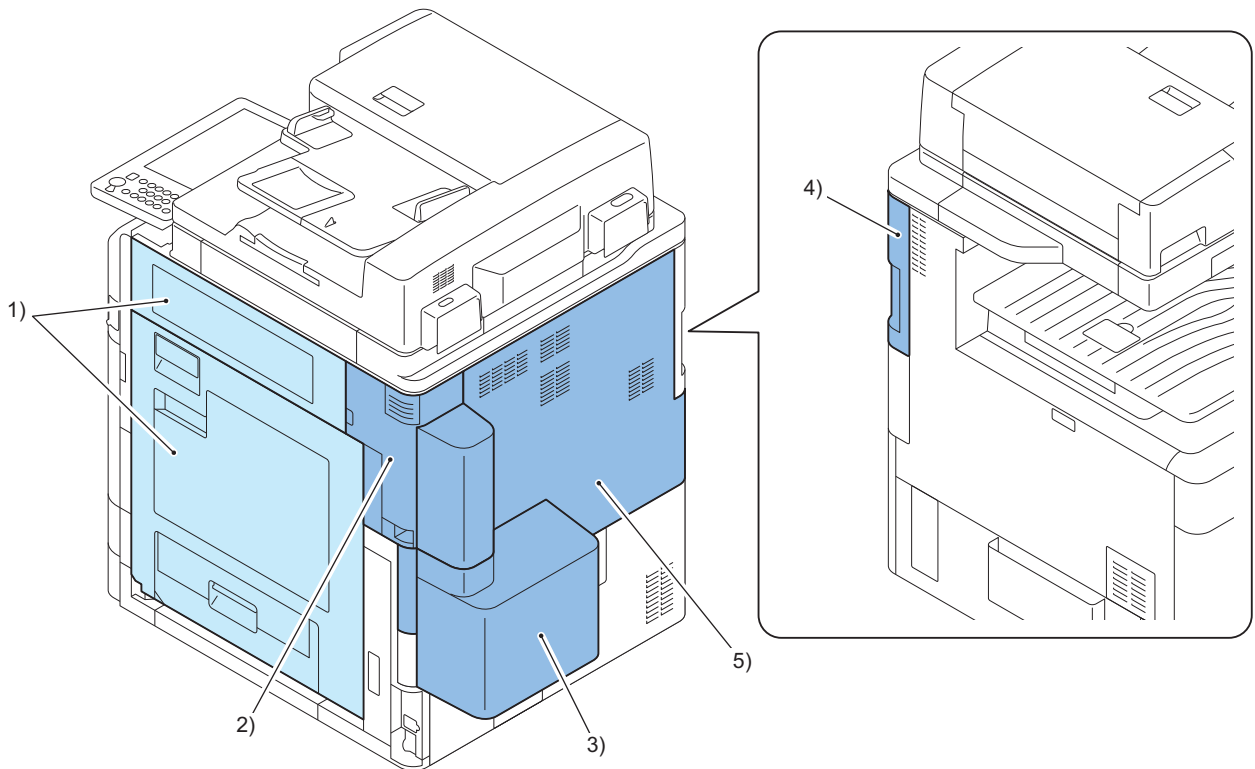
5. Open the Controller Box. [“Opening the Controller Box”](#) on page 262

● For the Duct Model (EUR only)

1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Right Rear Cover
3. Removing the Left Rear Cover
4. Removing the Duct Lower Cover
 - 3 Screws

5. Removing the Rear Upper Cover

- 1 Rubber Cap
- 4 Screws
- 1 Claw

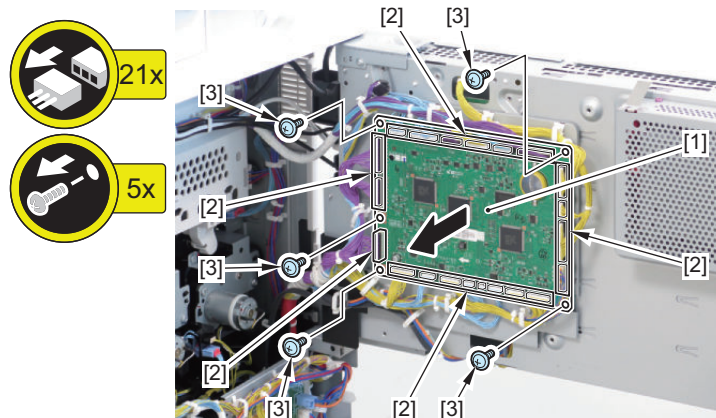


6. Open the Controller Box. "Opening the Controller Box" on page 262

■ Procedure

1. Remove the DC Controller PCB [1].

- 21 Connectors [2]
- 5 Screws [3]



CAUTION:

When replacing the DC Controller PCB, be sure to use a new one. Do not use the DC Controller PCB which was used with another machine.

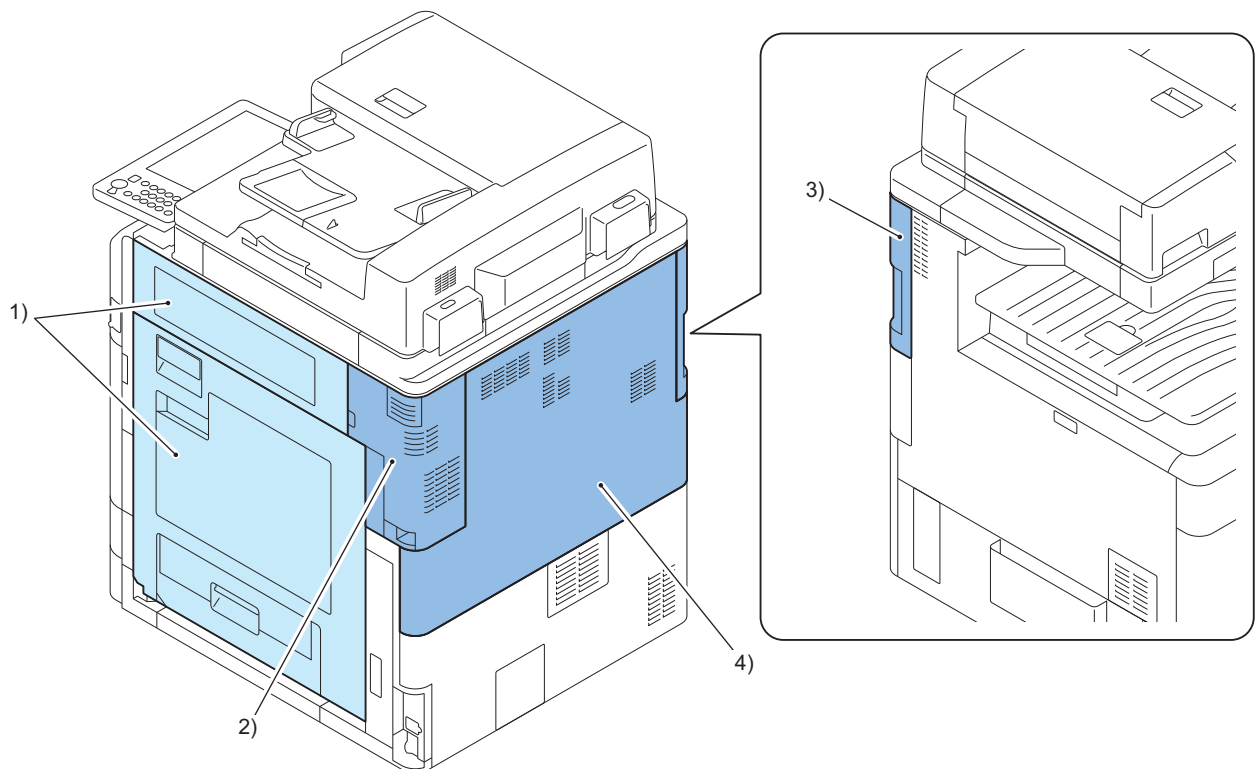
CAUTION:

Actions after Replacement: "Works During Parts Replacement" on page 474

● Removing the Primary Transfer/Bk Developing Charging High-Voltage Unit

■ Preparation

1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Right Rear Cover.
3. Removing the Left Rear Cover.
4. Removing the Rear Upper Cover.
 - 1 Rubber Cap
 - 4 Screws (Binding)
 - 1 Claw



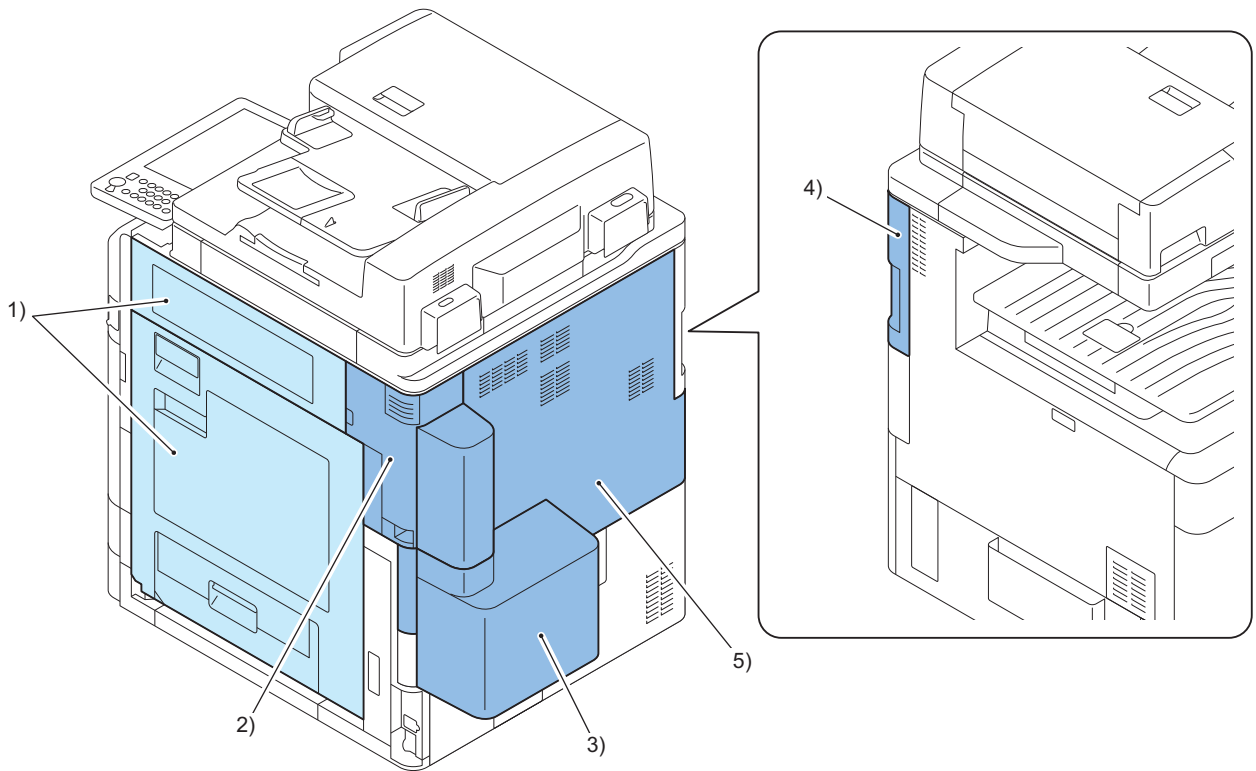
5. Open the Controller Box. [“Opening the Controller Box” on page 262](#)

● For the Duct Model (EUR only)

1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Right Rear Cover
3. Removing the Left Rear Cover
4. Removing the Duct Lower Cover
 - 3 Screws

5. Removing the Rear Upper Cover

- 1 Rubber Cap
- 4 Screws
- 1 Claw

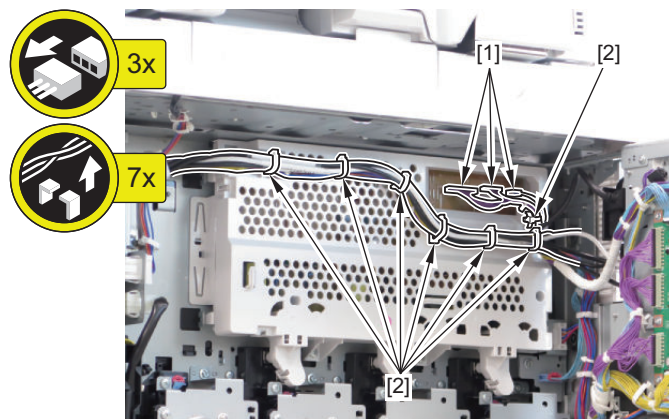


6. Open the Controller Box. “Opening the Controller Box” on page 262

■ Procedure

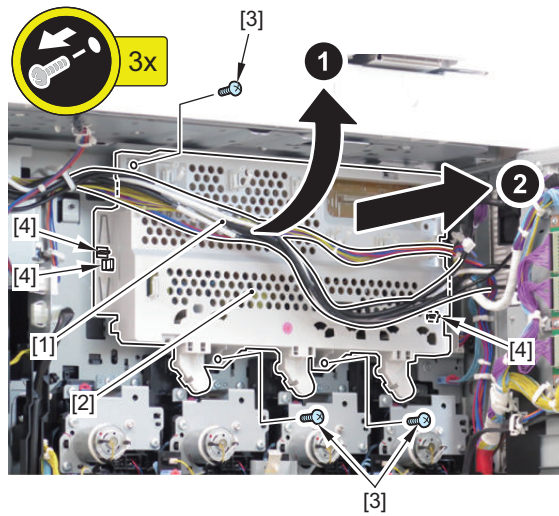
1. Remove the harness.

- 3 Connectors [1]
- 7 Wire Saddles [2]



2. Avoiding the harness [1], remove the Primary Transfer/Bk Developing Charging High-Voltage Unit [2].

- 3 Screws [3]
- 3 Hooks [4]

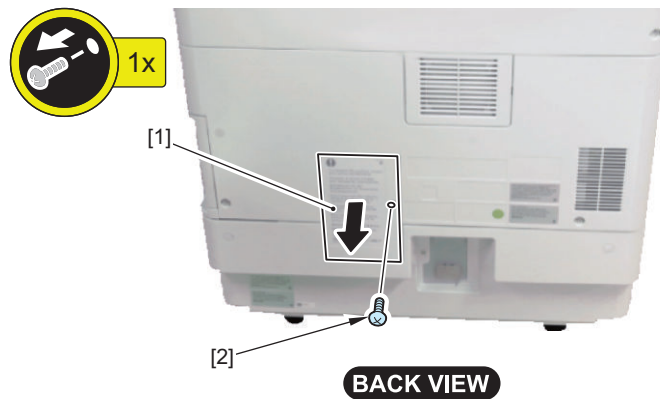


● Removing the Rear Lower Cover

■ Procedure

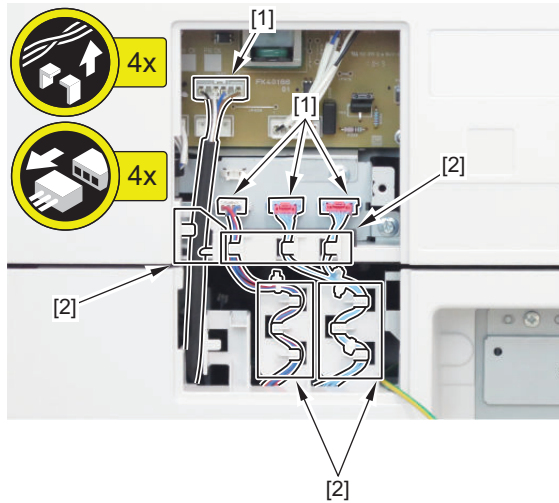
1. Remove the Connector Cover [1].

- 1 Screw [2]



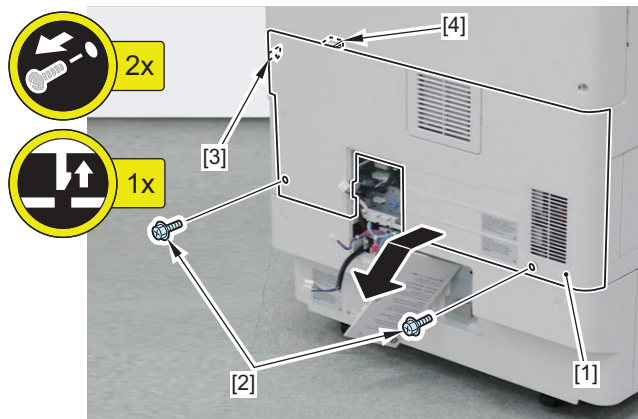
2. If the Cassette Pedestal is installed, disconnect the connectors.

- 4 Connectors [1]
- 4 Harness Guides [2]



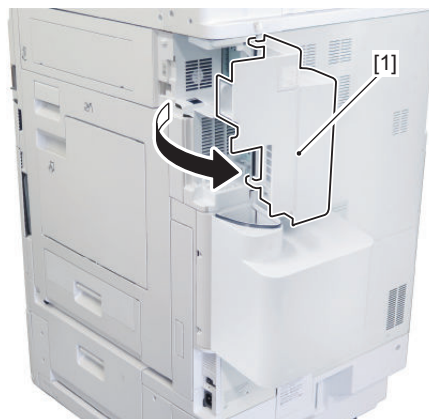
3. Remove the Rear Lower Cover [1].

- 2 Screws [2]
- 1 Claw [3]
- 1 Hook [4]



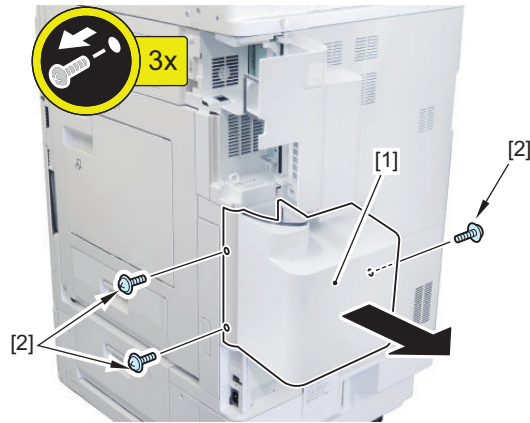
• For the Duct Model (EUR only)

1. Open the Right Rear Cover [1].



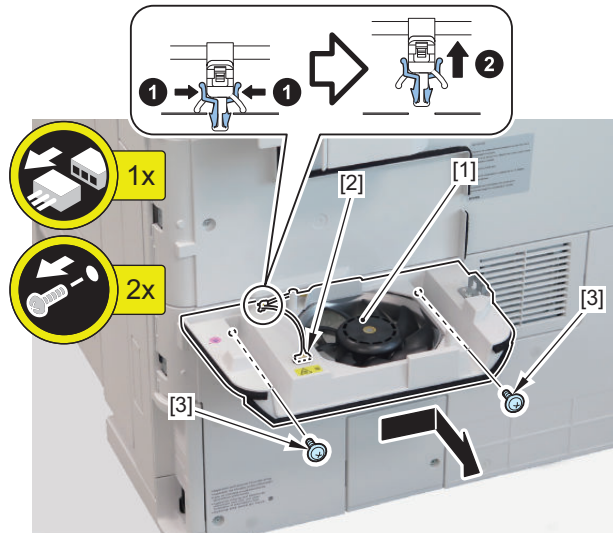
2. Removing the Duct Lower Cover [1].

- 3 Screws [2]



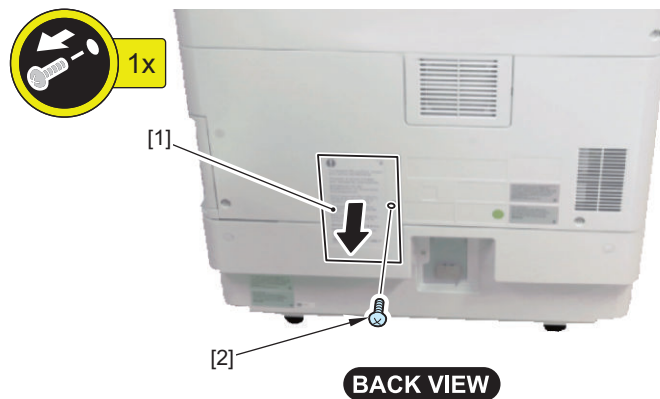
3. Removing the Fan Motor Unit [1].

- 1 Connector [2]
- 2 Screws [3]



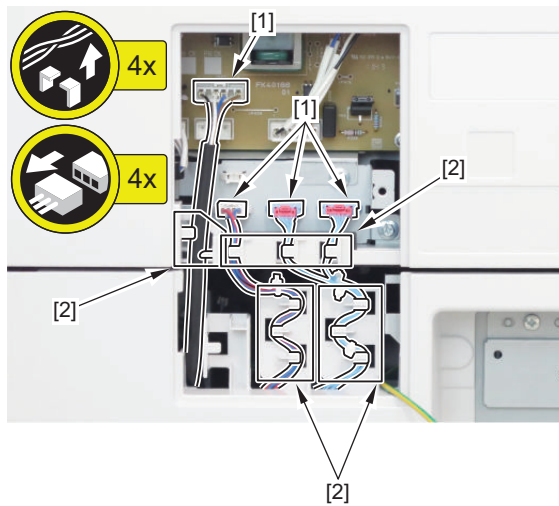
4. Removing the Connector Cover [1].

- 1 Screw [2]



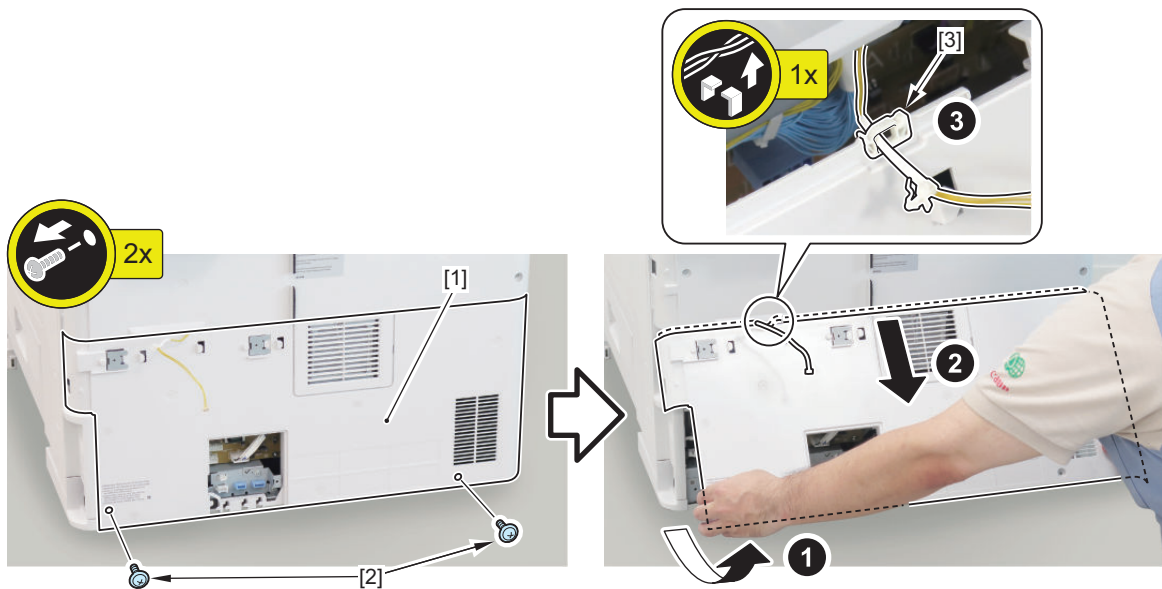
5. If the Cassette Pedestal is installed, disconnect the connectors.

- 4 Connectors [1]
- 4 Harness Guides [2]



6. Remove the Rear Lower Cover [1].

- 2 Screws [2]
- 1 Edge Saddle [3]



● Removing the Power Supply Unit (12 V/24 V)

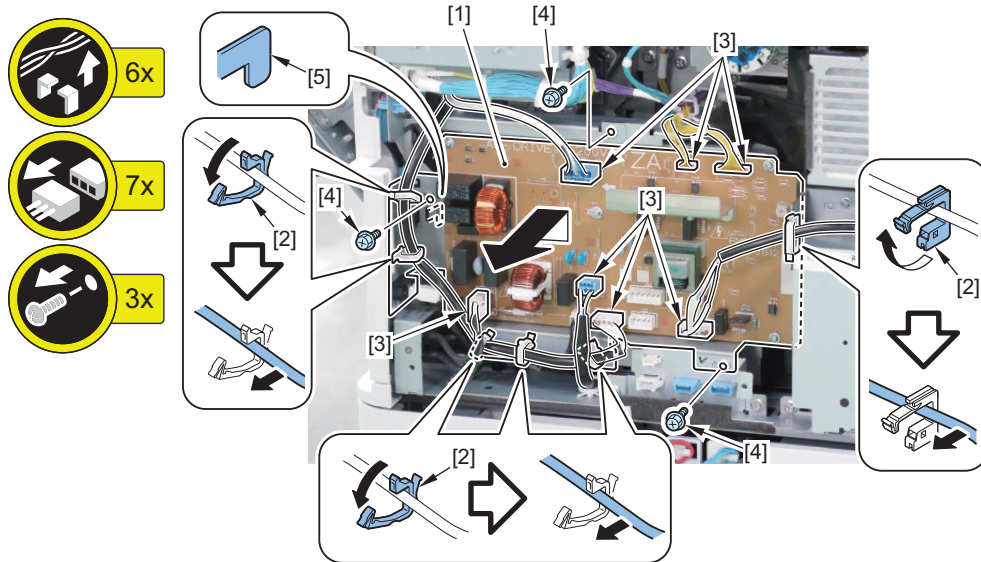
■ Preparation

1. Removing the Rear Lower Cover “Removing the Rear Lower Cover” on page 268

■ Preparation

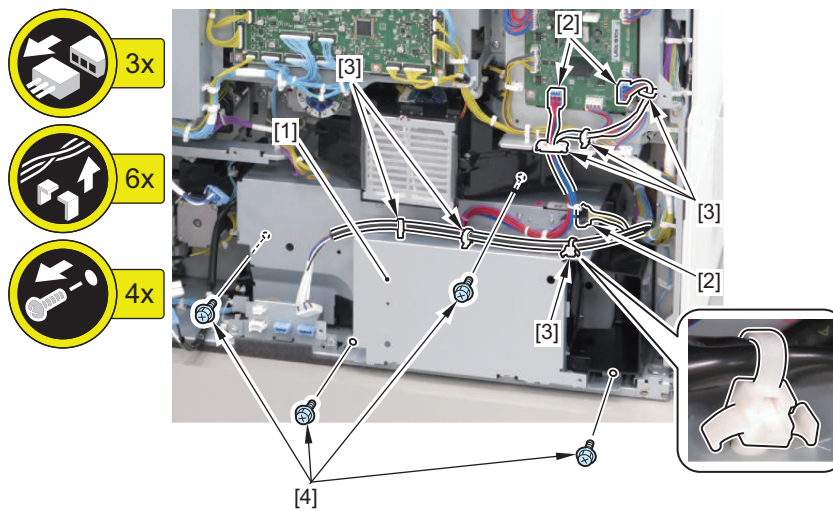
1. Removing the AC Driver Unit [1].

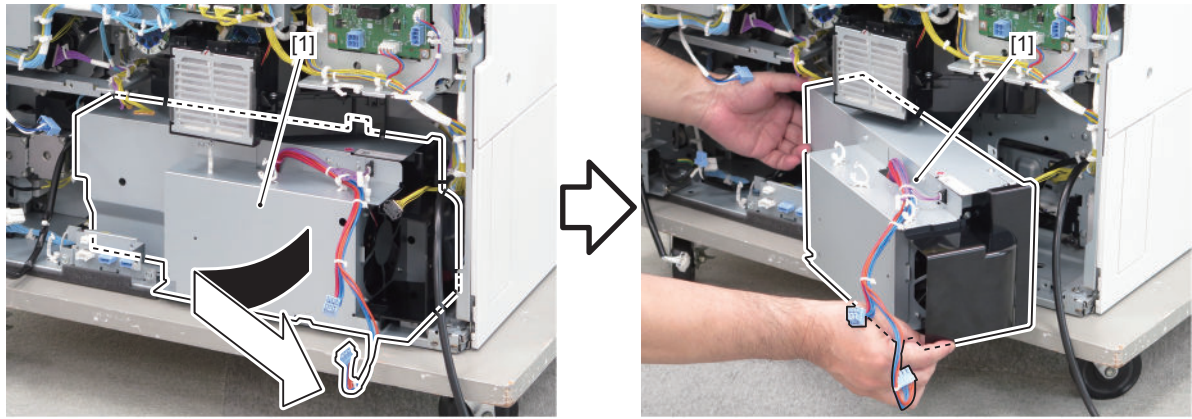
- 6 Wire Saddles [2]
- 7 Connectors [3]
- 3 Screws [4]
- 1 Hook [5]



2. Pull out Power Supply Unit [1] a little.

- 3 Connectors [2]
- 6 Wire Saddles [3]
- 4 Screws [4]

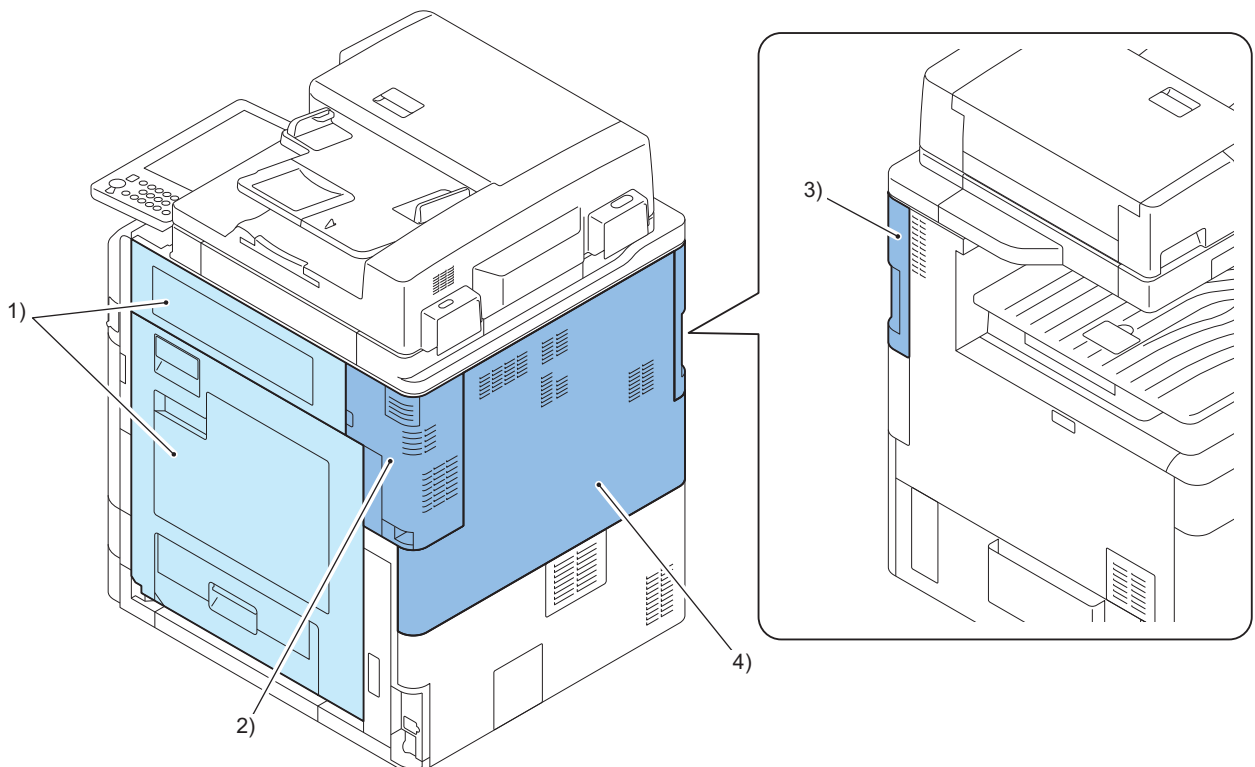


3. Removing the Power Supply Unit [1].

● Removing the Feed/Drum Driver PCB

■ Preparation

1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Right Rear Cover.
3. Removing the Left Rear Cover.
4. Removing the Rear Upper Cover.
 - 1 Rubber Cap
 - 4 Screws (Binding)
 - 1 Claw



● For the Duct Model (EUR only)

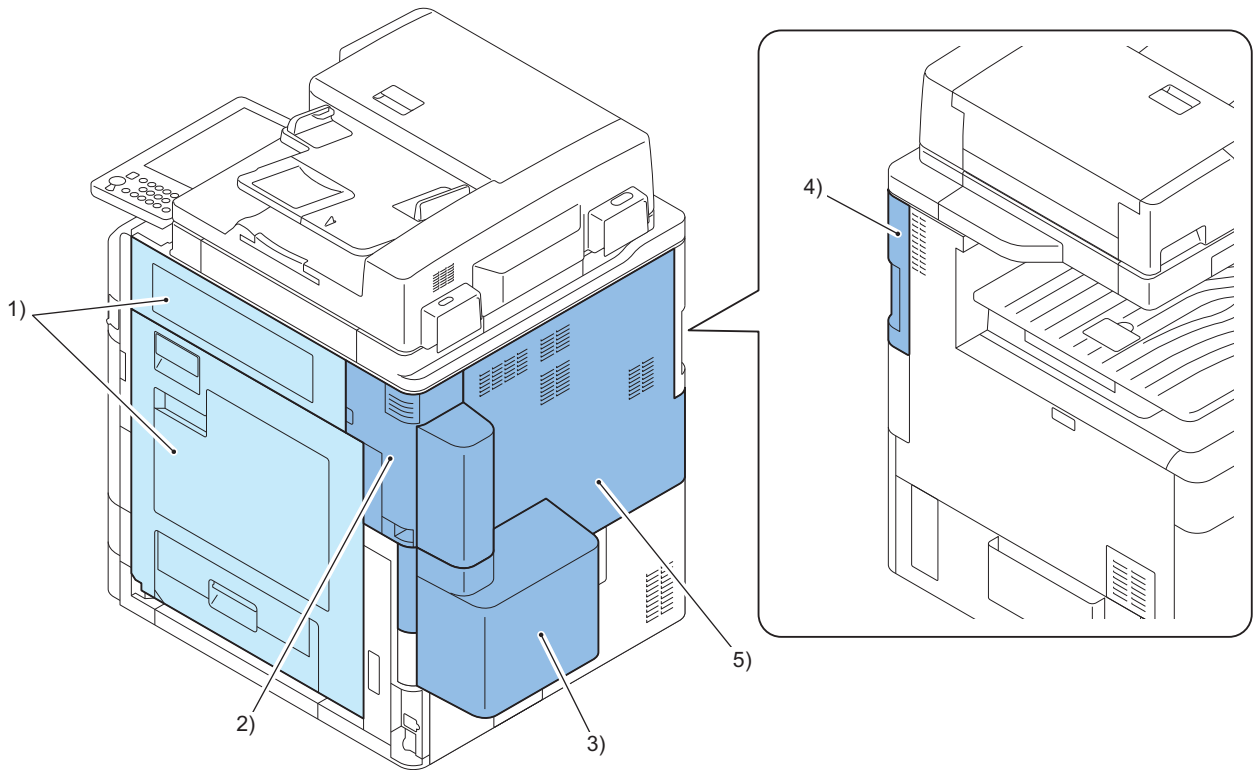
1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Right Rear Cover
3. Removing the Left Rear Cover

4. Removing the Duct Lower Cover

- 3 Screws

5. Removing the Rear Upper Cover

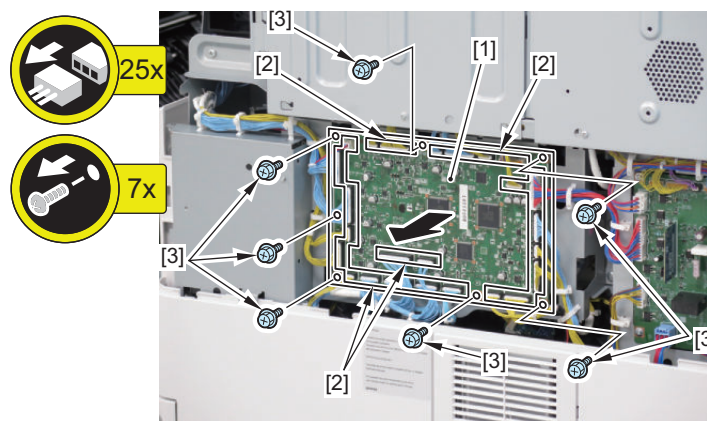
- 1 Rubber Cap
- 4 Screws
- 1 Claw



■ Procedure

1. Remove the connector on the PCB and then remove the Feed/Drum Driver PCB [1].

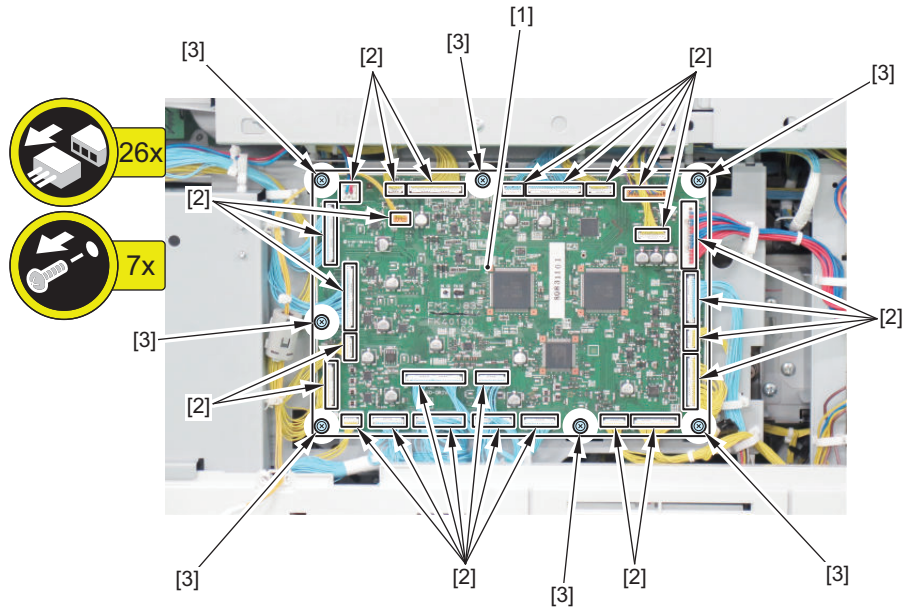
- 25 Connectors [2]
- 7 Screws [3]



• For the Duct Model (EUR only)

1. Remove the connector on the PCB and then remove the Feed/Drum Driver PCB [1].

- 26 Connectors [2]
- 7 Screws [3]



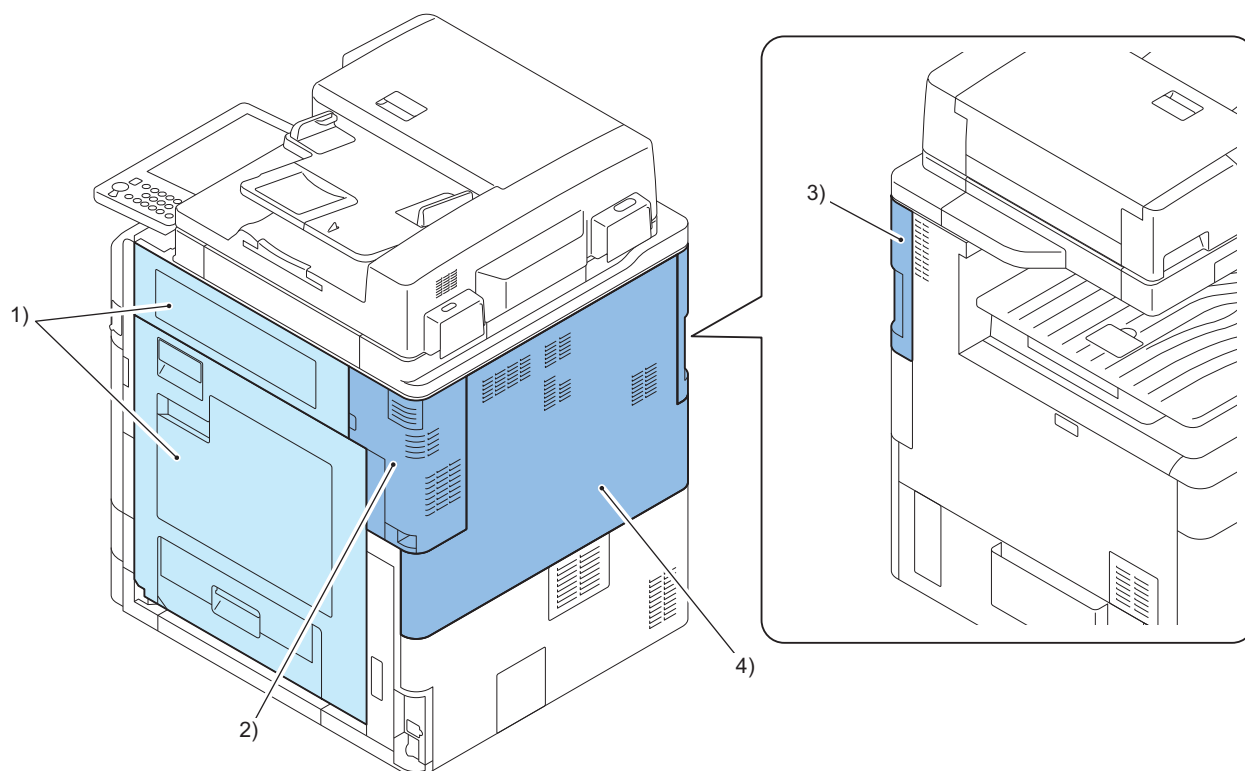
● Removing the Relay PCB

■ Preparation

1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Right Rear Cover.
3. Removing the Left Rear Cover.

4. Removing the Rear Upper Cover.

- 1 Rubber Cap
- 4 Screws (Binding)
- 1 Claw

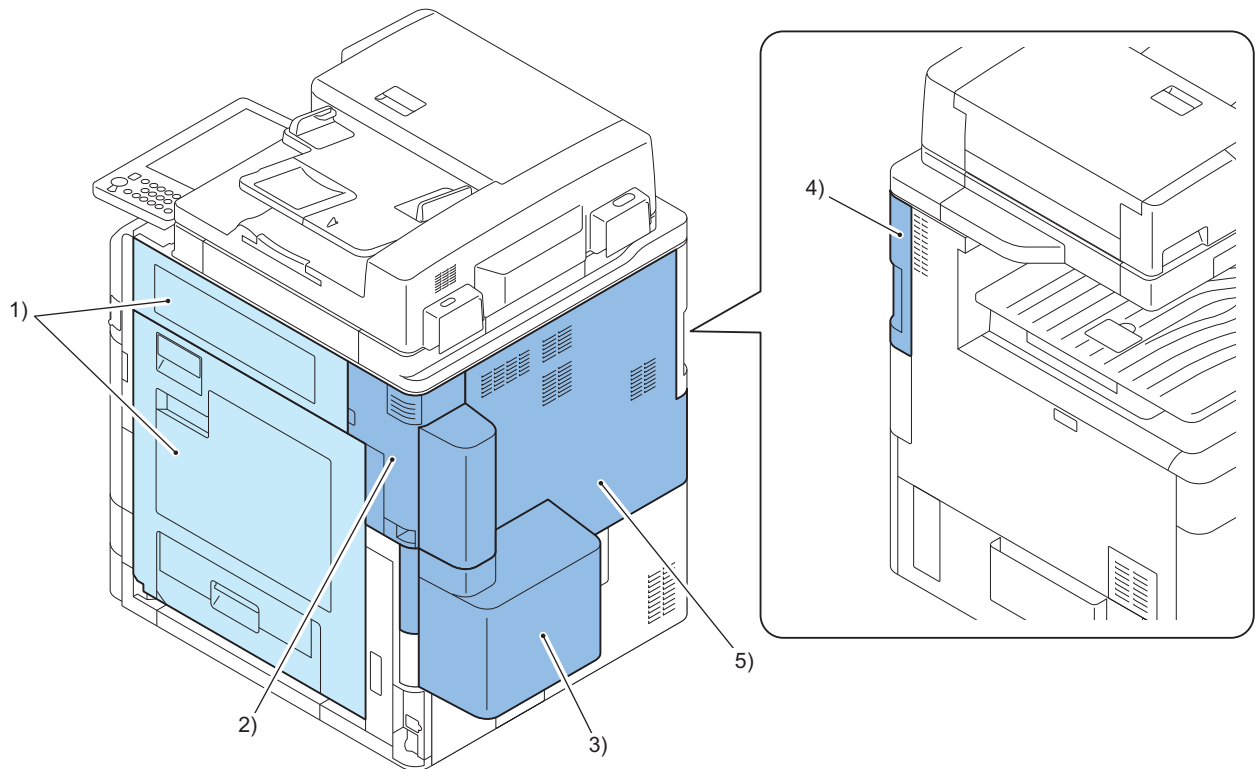


• For the Duct Model (EUR only)

1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Right Rear Cover
3. Removing the Left Rear Cover
4. Removing the Duct Lower Cover
 - 3 Screws

5. Removing the Rear Upper Cover

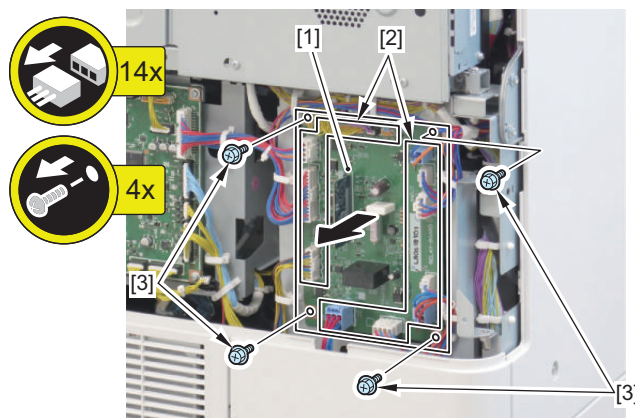
- 1 Rubber Cap
- 4 Screws
- 1 Claw



■ Procedure

1. Remove the connector on the PCB and then remove the Relay PCB [1].

- 14 Connectors [2]
- 4 Screws [3]



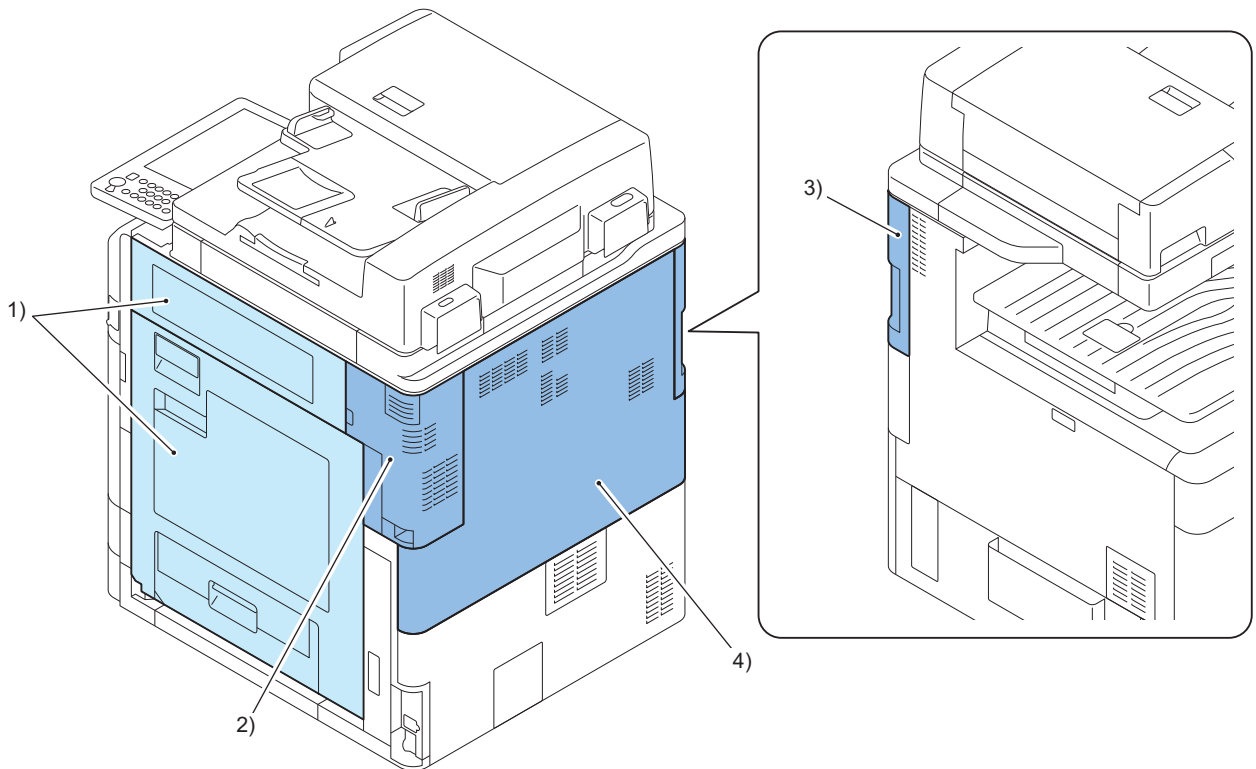
● Removing the Secondary Transfer High Voltage Unit

■ Preparation

1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Right Rear Cover.
3. Removing the Left Rear Cover.

4. Removing the Rear Upper Cover.

- 1 Rubber Cap
- 4 Screws (Binding)
- 1 Claw

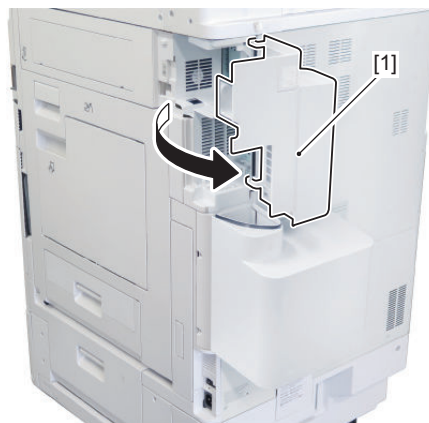


5. Open the Controller Box. “Opening the Controller Box” on page 262

6. Removing the Rear Lower Cover “Removing the Rear Lower Cover” on page 268

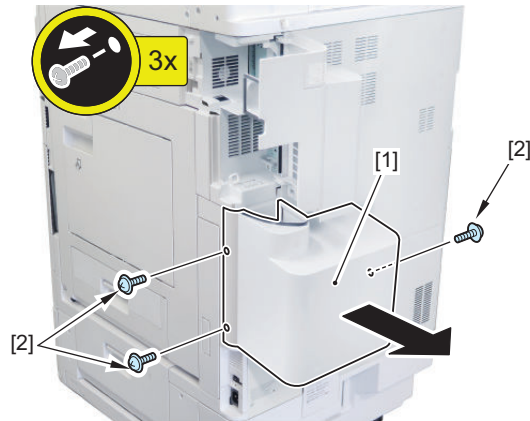
• For the Duct Model (EUR only)

1. Open the Right Rear Cover [1].



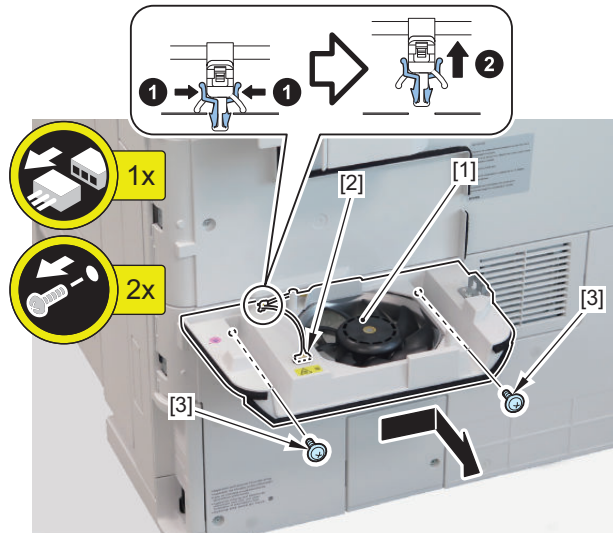
2. Removing the Duct Lower Cover [1].

- 3 Screws [2]



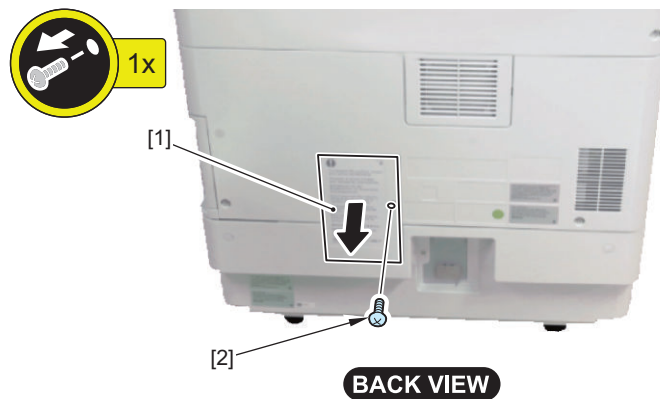
3. Removing the Fan Motor Unit [1].

- 1 Connector [2]
- 2 Screws [3]



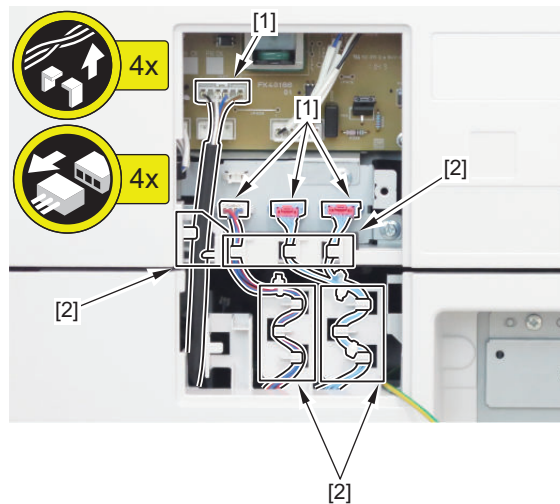
4. Removing the Connector Cover [1].

- 1 Screw [2]



5. If the Cassette Pedestal is installed, disconnect the connectors.

- 4 Connectors [1]
- 4 Harness Guides [2]



6. Remove the Rear Lower Cover [1].

- 2 Screws [2]
- 1 Edge Saddle [3]



7. Open the Right Lower Cover and the Right Upper Cover.

8. Removing the Right Rear Cover

9. Removing the Left Rear Cover

10. Removing the Rear Upper Cover

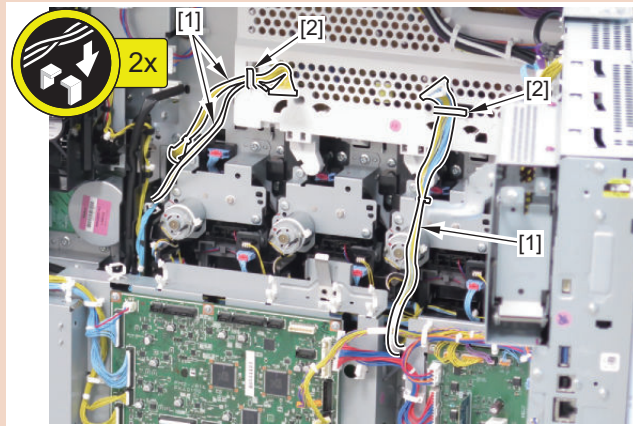
- 1 Rubber Cap
- 4 Screws (Binding)
- 1 Claw

11. Open the Controller Box. “Opening the Controller Box” on page 262

■ Procedure

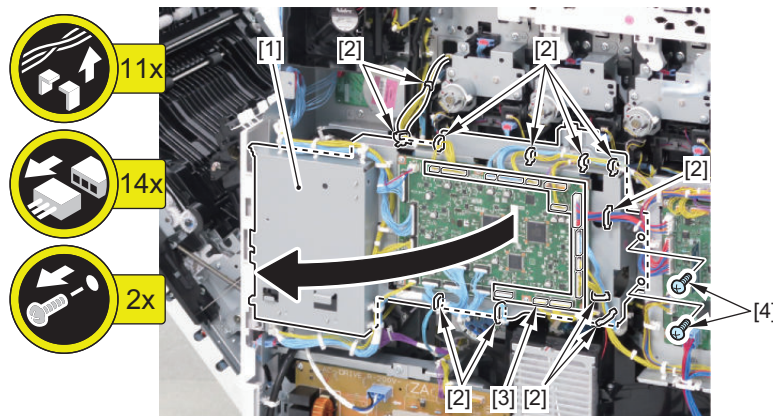
CAUTION:

Hook up the harness [1] freed in step 1 to the 2 hooks [2].



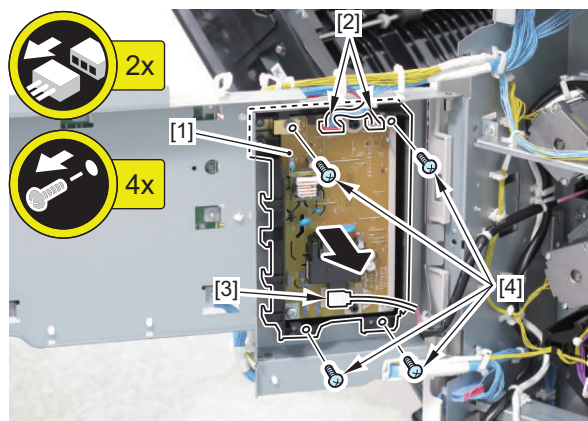
1. Open the Feed/Drum Driver PCB [1].

- 11 Wire Saddles [2]
- 14 Connectors [3]
- 2 Screws [4]



2. Remove the Secondary Transfer High Voltage Unit [1].

- 2 Connectors [2]
- 1 Fasten Terminal [3]
- 4 Screws [4]



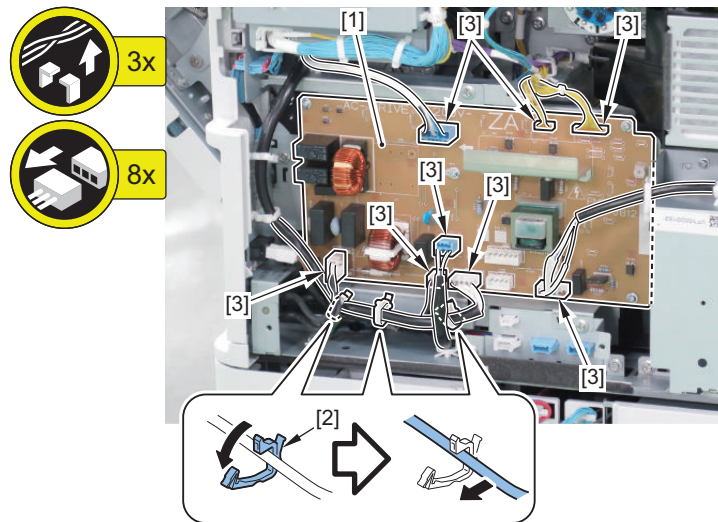
Removing the AC Driver PCB

Preparation

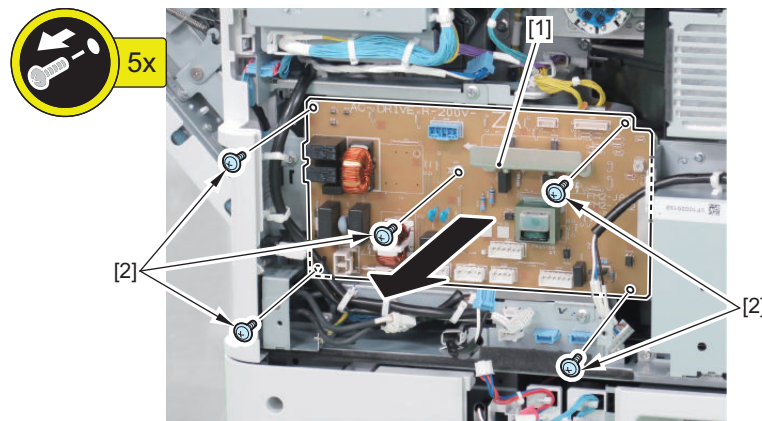
1. Removing the Rear Lower Cover “Removing the Rear Lower Cover” on page 268

Procedure

1. Remove all of the connectors on the AC Driver PCB [1].
 - 3 Wire Saddles [2]
 - 8 Connectors [3]



2. Remove the AC Driver PCB [1].
 - 5 Screws [2]



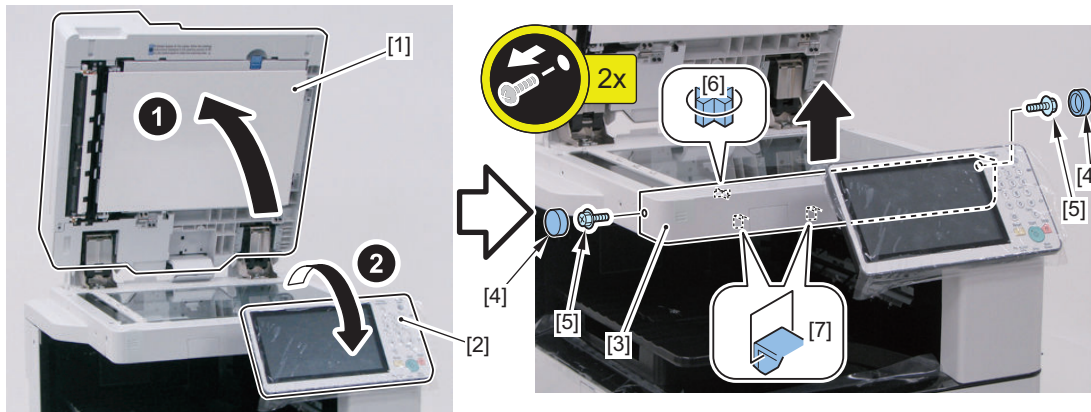
Removing the Control Panel

Procedure

1. Open the ADF [1], and raise the Control Panel [2].

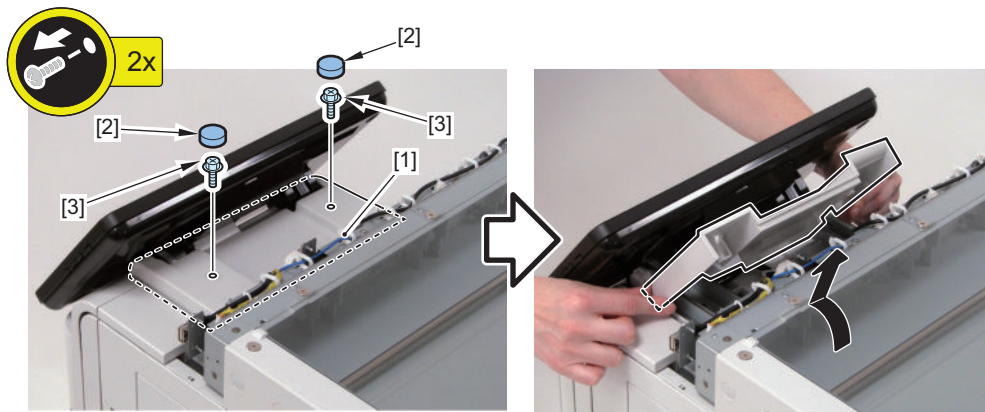
2. Remove the Reader Front Cover [3].

- 2 Rubber Caps [4]
- 2 Screws [5] (RS Tightening; M3)
- 1 Boss [6]
- 2 Hooks [7]



3. Remove the Arm Cover Upper [1].

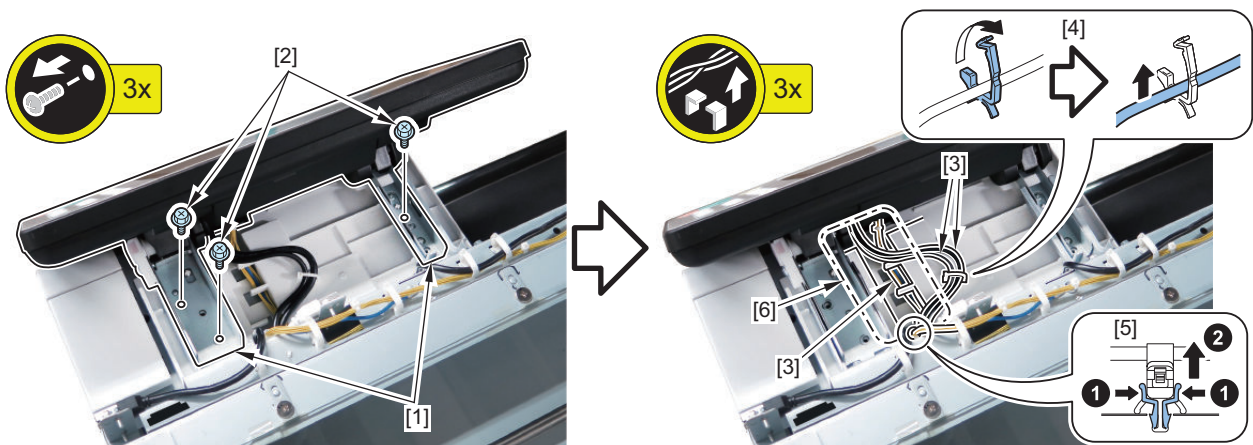
- 2 Rubber Caps [2]
- 2 Screws [3] (RS Tightening; M3)



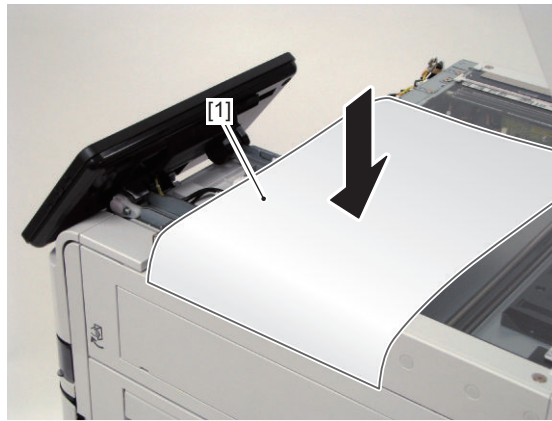
4. Remove the 3 screws [2] (RS Tightening; M3) of the Control Panel Hinge Base Unit [1].

5. Remove the 3 Harnesses [3].

- 1 Wire Saddles [4]
- 1 Reuse Band [5]
- 1 Guide [6]



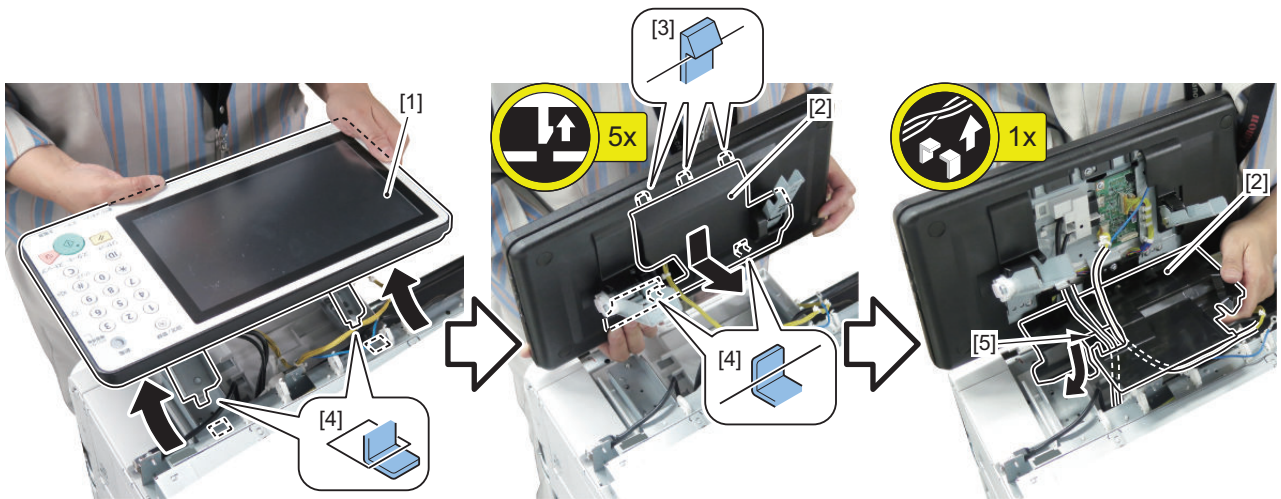
6. Place a sheet of paper [1] on the Copy Board Glass to prevent damage on the Touch Panel and Copy Board Glass.



7. Pull the Control Panel Unit [1].

8. Remove the Control Panel Connector Cover [2].

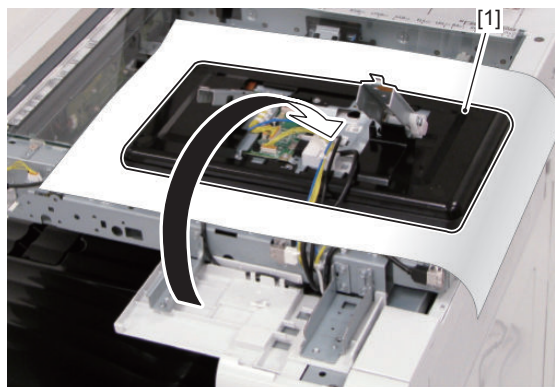
- 3 Claws [3]
- 4 Hooks [4]
- 1 Guide [5]



9. Turn over and place the Control Panel Unit [1] on the Copy Board Glass.

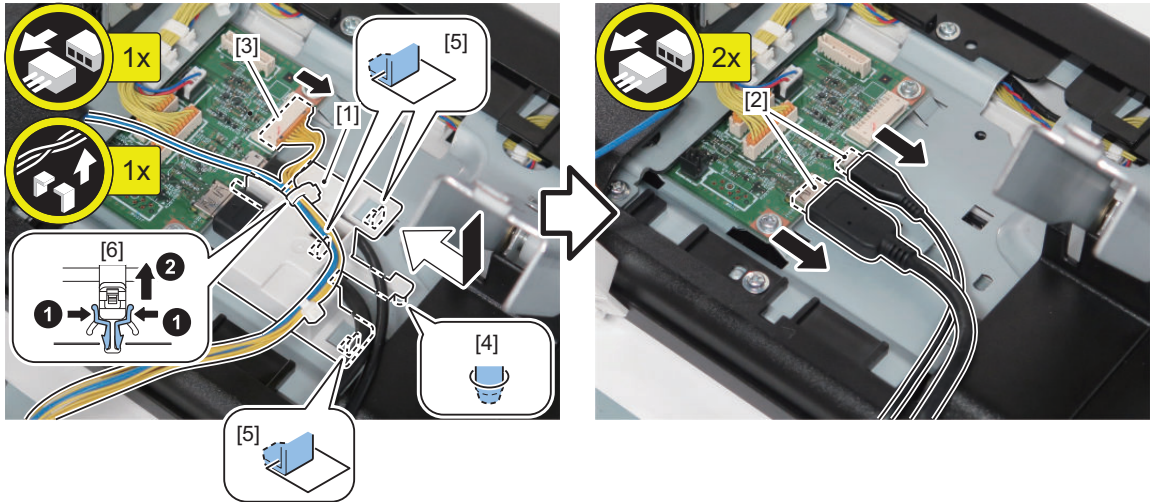
CAUTION:

Be careful not to drop the Control Panel Unit when turning it over.



10. Remove the Cable Holder [1] and disconnect the 2 Cables [2].

- 1 Connector [3]
- 1 Boss [4]
- 3 Hooks [5]
- 1 Reuse Band [6]

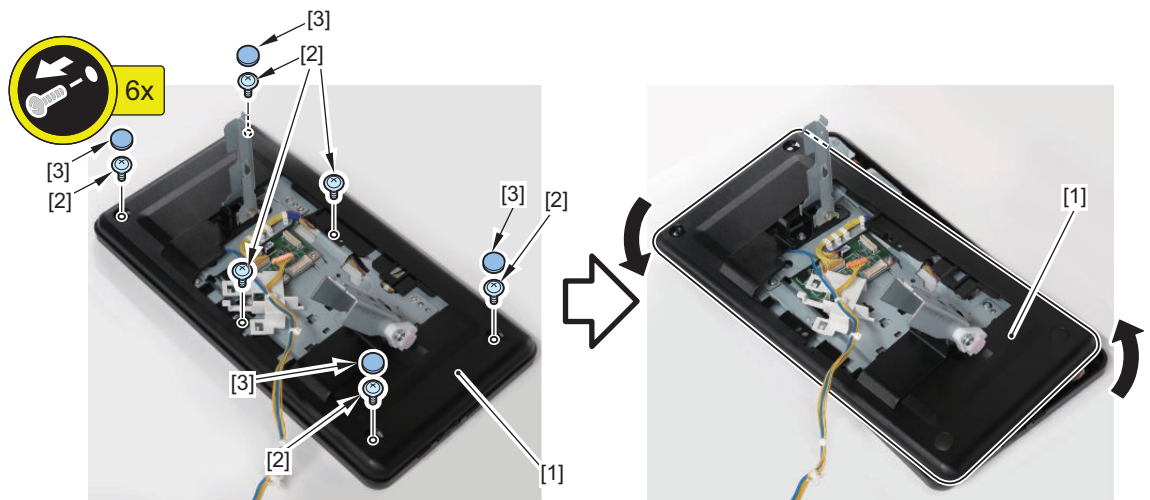


11. Remove the 6 screws [2] securing the Control Panel Rear Cover [1], rotate the Control Panel Rear Cover [1].

- 4 Rubber Caps [3]

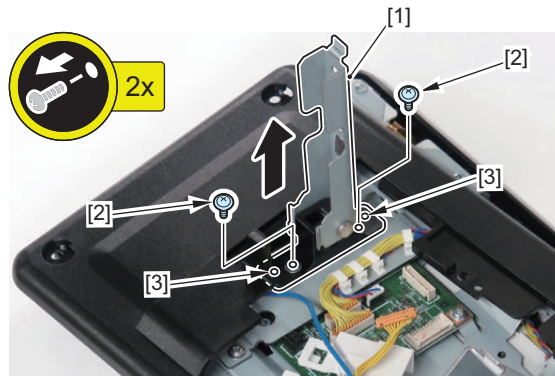
CAUTION:

The Control Panel is still connected with the Grounding Wire.



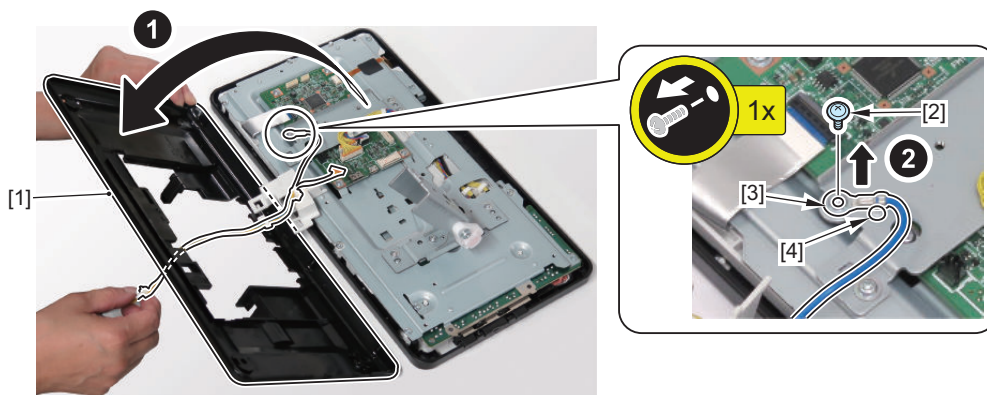
12. Remove the Control Panel Left Hinge [1].

- 1 Screw [2] (RS Tightening; M3)
- 2 Bosses [3]



13. Turn over the Control Panel Rear Cover [1] and disconnect the Grounding Wire [3].

- 1 Screw [2]

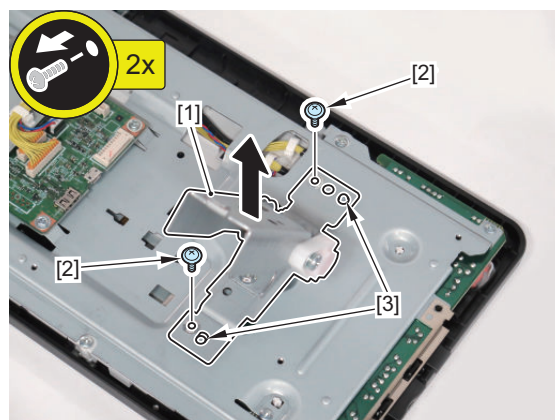


CAUTION:

Check the position of the Boss [4] for slip resistance when attaching the Ground Wire.

14. Remove the Control Panel Right Hinge [1].

- 2 Screws [2]
- 2 Bosses [3]

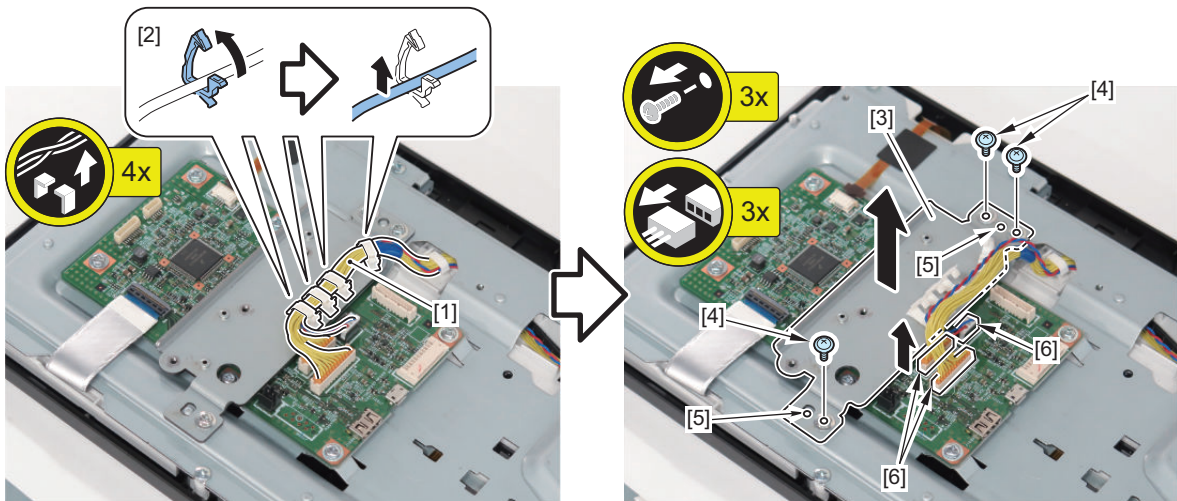


15. Remove the Harness [1].

- 4 Wire Saddles [2]

16. Remove the Control Panel Hinge Base [3].

- 3 Screws [4]
- 2 Bosses [5]



17. Actions after Replacement :“Control Panel Unit” on page 477

● Removing the Control Panel CPU PCB

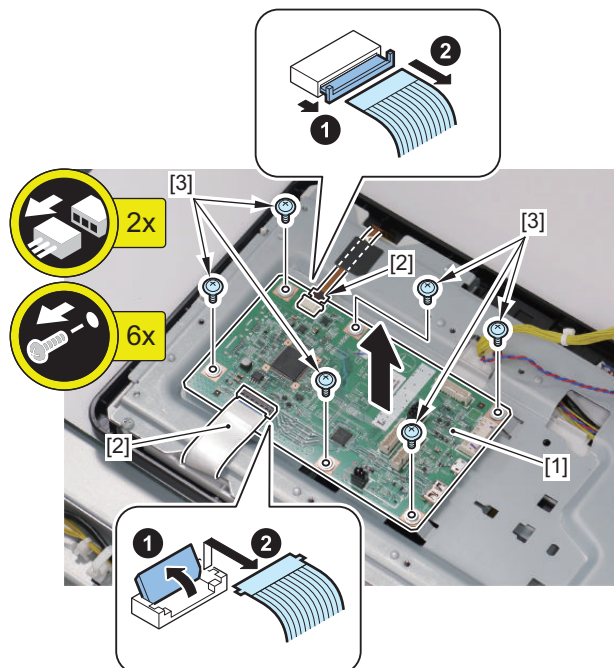
■ Preparation

1. Remove the Control Panel.“Removing the Control Panel ” on page 282

■ Procedure

1. Remove the Control Panel CPU PCB [1].

- 2 Flat Cables [2]
- 6 Screws [3]



2. Actions after Replacement :“Control Panel Unit” on page 477

● Removing the Touch Panel, LCD Unit, and the Control Panel Key Switch PCB

■ Preparation

1. Removing the Control Panel CPU PCB. "Removing the Control Panel CPU PCB" on page 287

■ Procedure

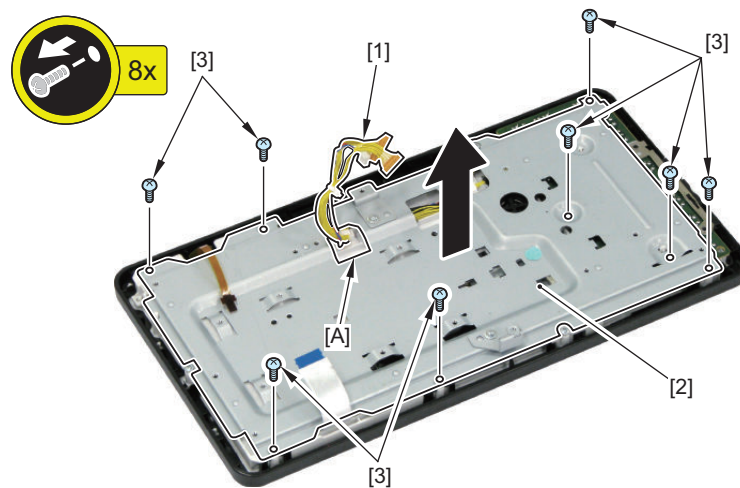
CAUTION:

Do not touch the surface [A] of the Touch Panel and the surface [B] of the LCD Unit when disassembling/assembling.



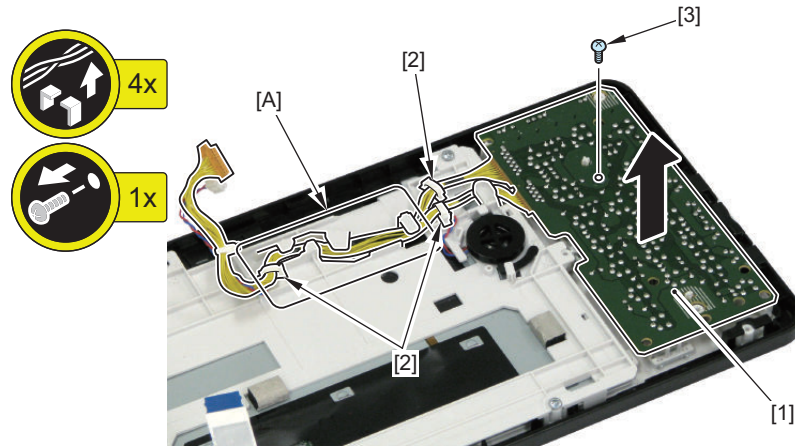
1. Pass the harness [1] through the [A] part, and remove the Control Panel Stay Unit [2].

- 8 Screws [3]



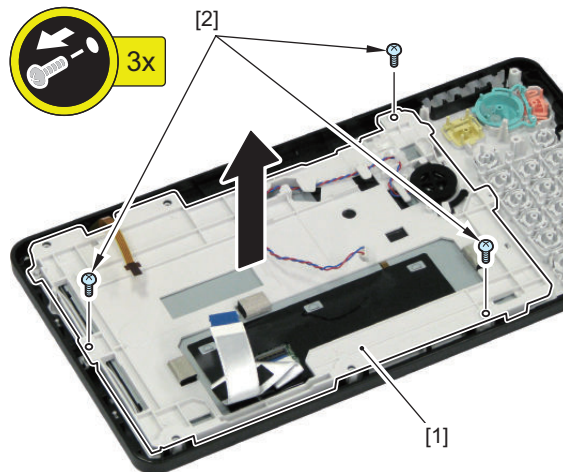
2. Remove the Numeric Keypad PCB [1].

- 3 Wire Saddles [2]
- Guide [A]
- 1 Screw [3]



3. Remove the LCD Holder [1].

- 3 Screws [2]

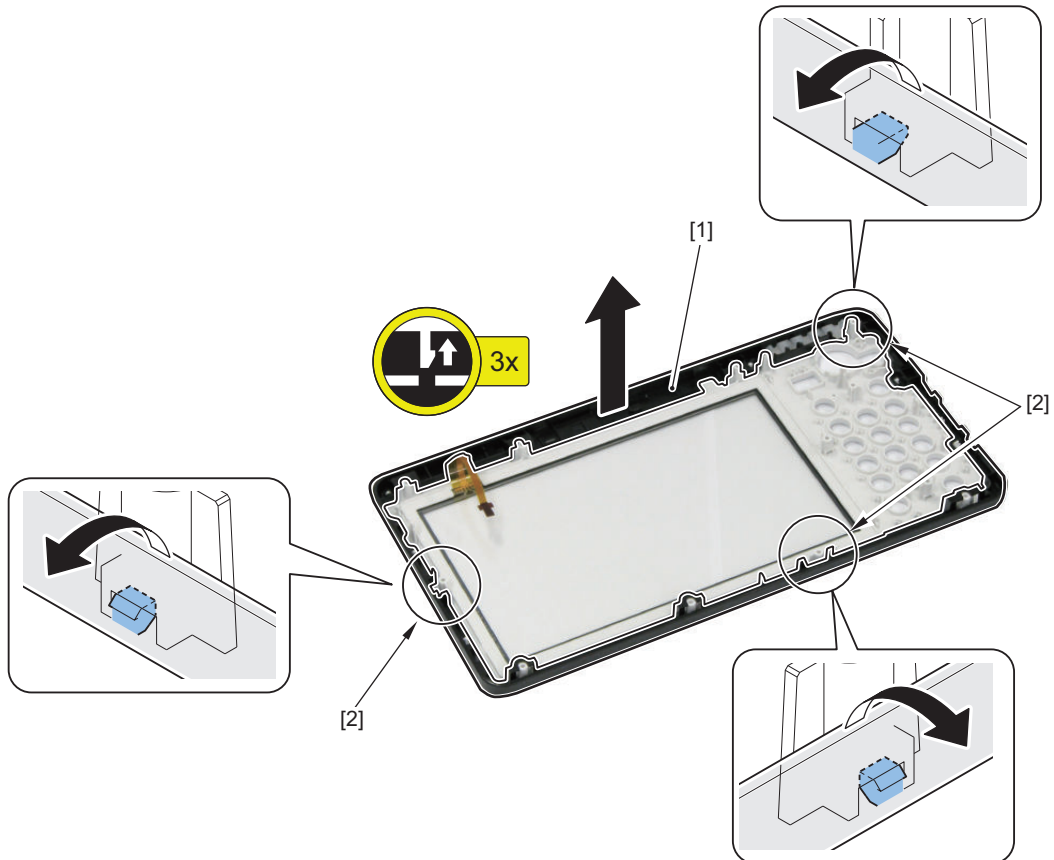


4. Remove the Control Panel Keys [1].



5. Remove the Touch Panel [1].

- 3 Claws [2]

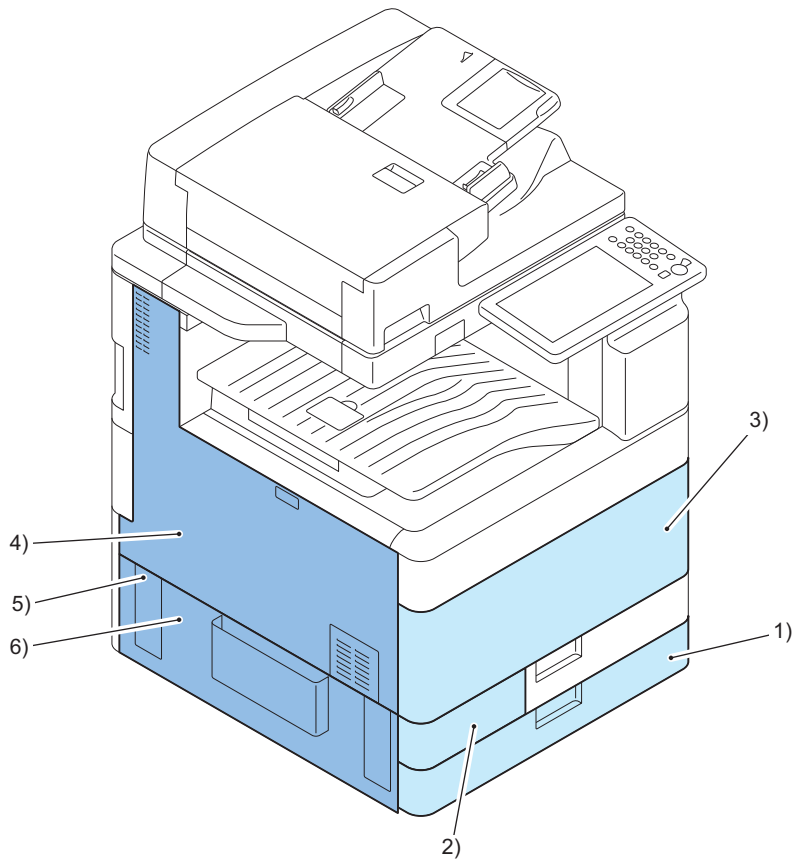
**6. Actions after Replacement :“Control Panel Unit” on page 477**

● Removing the Developing High-Voltage PCB (YMC)/Charging High-Voltage PCB (YMC)

■ Preparation

1. Pull out the Cassette 2.
2. Open the Waste Toner Container Cover.
3. Pull out the Front Cover.
4. Remove the Left Upper Cover.
5. Remove the Left Handle Cover

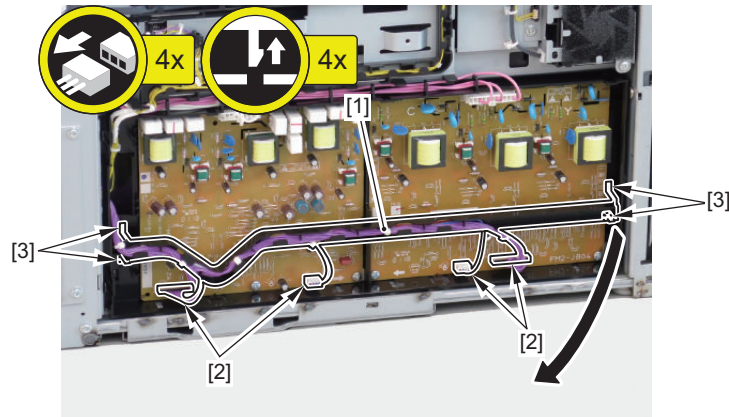
6. Remove the Left Lower Cover.



■ Procedure

1. Move the guide [1] with the harness attached so that it does not disturb the work.

- 4 Connectors [2]
- 4 Claws [3]

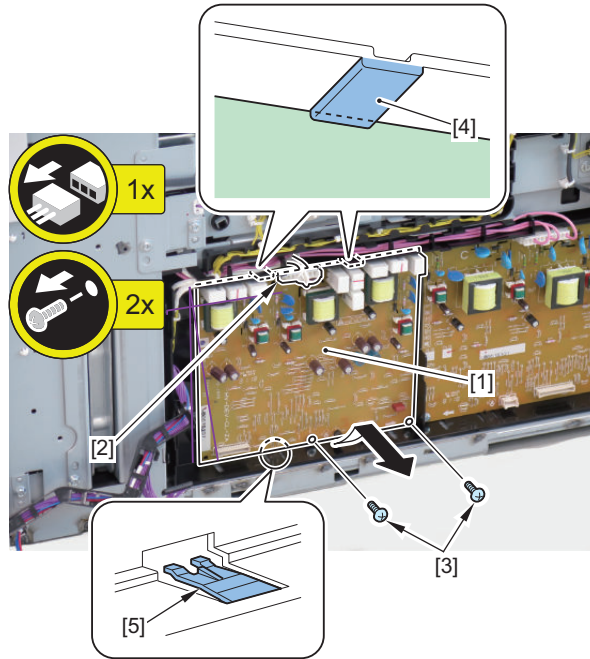


NOTE:

- To remove the Developing High-Voltage PCB (YMC), perform step 2.
- To remove the Charging High-Voltage PCB (YMC), perform step 3.

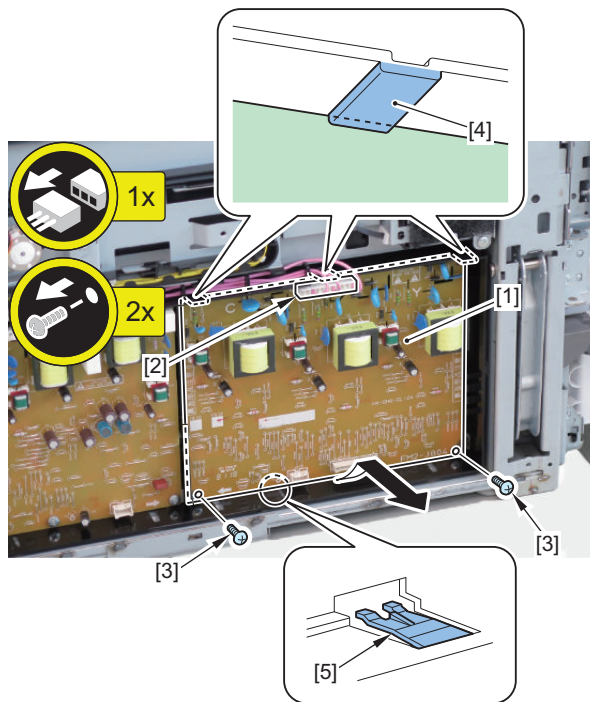
2. Remove the Developing High-Voltage PCB (YMC) [1].

- 1 Connector [2]
- 2 Screws [3]
- 2 Hooks [4]
- 1 Claw [5]



3. Remove the Charging High-Voltage PCB (YMC) [1].

- 1 Connector [2]
- 2 Screws [3]
- 3 Hooks [4]
- 1 Claw [5]



Removing the Drum Contact PCB

Preparation

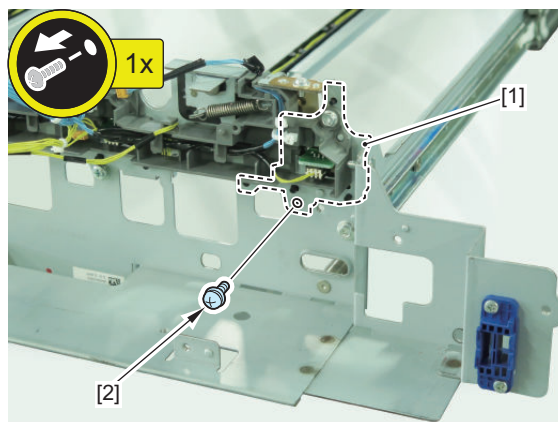
1. Pulling the Process Unit. [“Pulling out the Process Unit” on page 341](#)
2. Removing the Drum Unit. [“Removing the Drum Unit” on page 350](#)
3. Removing the Developing Assembly. [“Removing the Developing Unit” on page 353](#)
4. Removing the Waste Toner Feed Unit. [“Removing the Waste Toner Feed Unit” on page 358](#)

Procedure

NOTE:

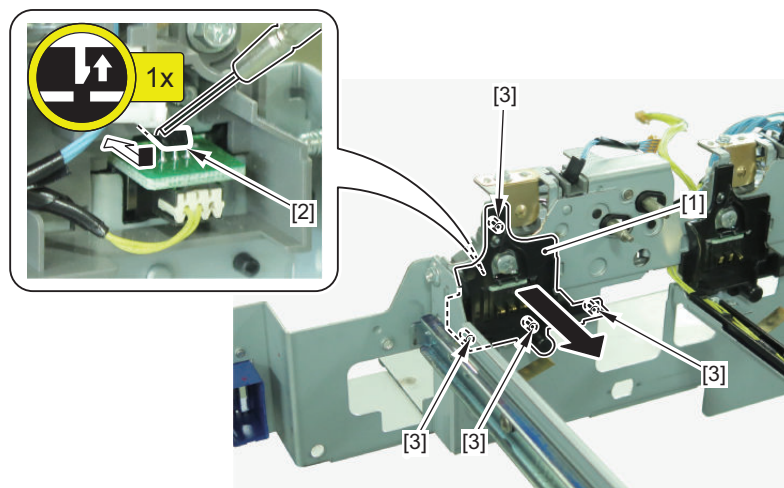
The following shows the removal procedure for BK. Repeat the same procedure for Y, M, and C.

1. Remove the screw [2] securing the Drum Unit Rail [1].



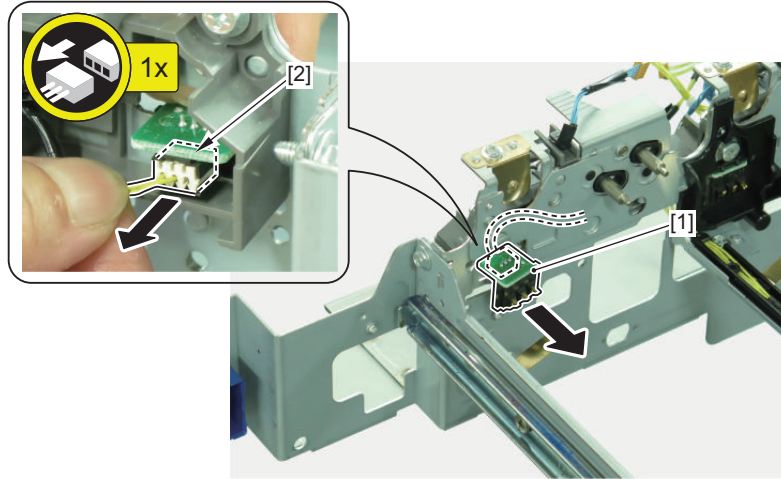
2. Remove the Drum Unit Rail [1].

- 1 Claw [2]
- 4 Bosses [3]



3. Remove the Drum Contact PCB [1].

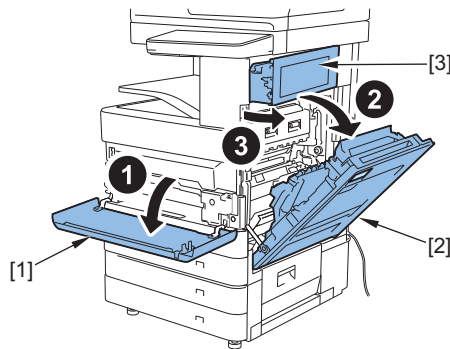
- 1 Connector [2]



● Removing the Front Driver PCB

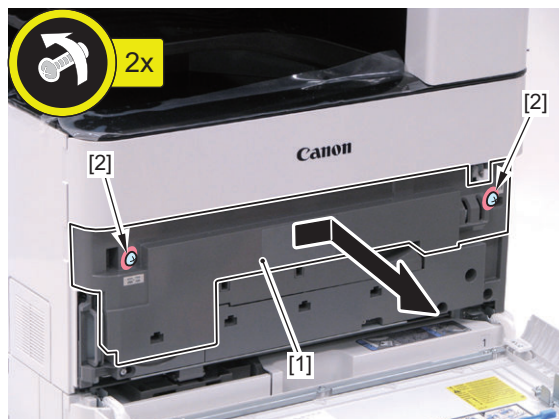
■ Preparation

1. Open the Front Cover, Right Lower Cover, and Right Upper Cover.



2. Removing the ITB Cover [1]

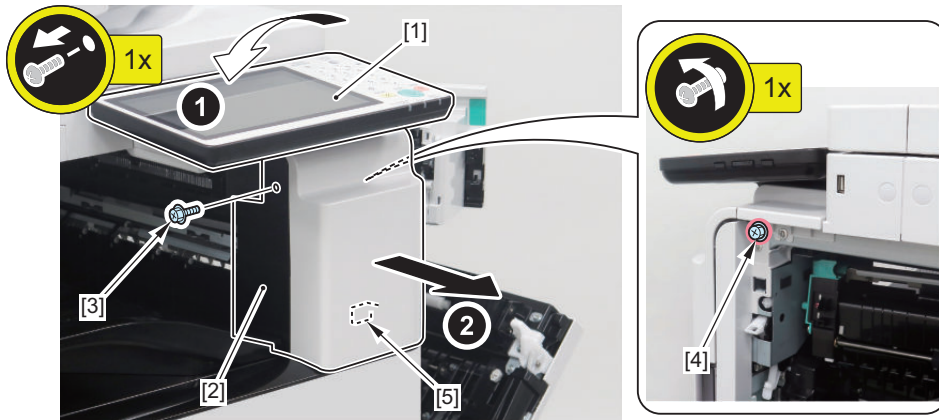
- 2 Screws [2] (to loosen)



■ Procedure

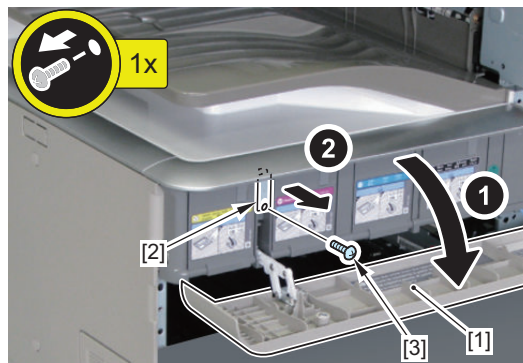
1. Pull up the Control Panel [1] and remove the Front Upper Cover Unit [2].

- 1 Screw [3] (to remove)
- 1 Screw [4] (to loosen)
- 1 Claw [5]



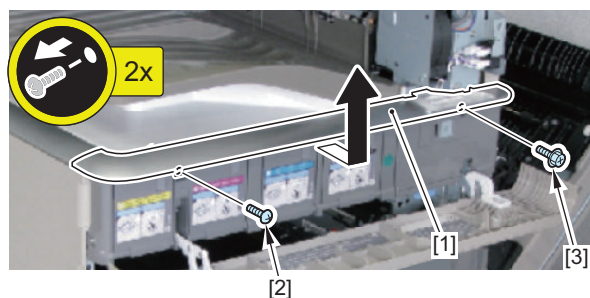
2. Open the Toner Replacement Cover [1] and remove the Small Plate [2].

- 1 Screws [3] (P Tightening)

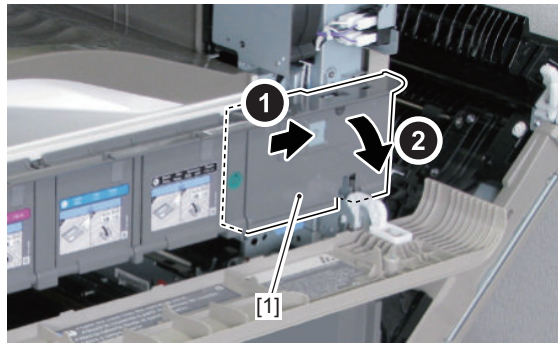


3. Remove the Front Upper Cover Unit [1].

- 1 Screw [2] (P Tightening)
- 1 Screw [3] (RS Tightening)

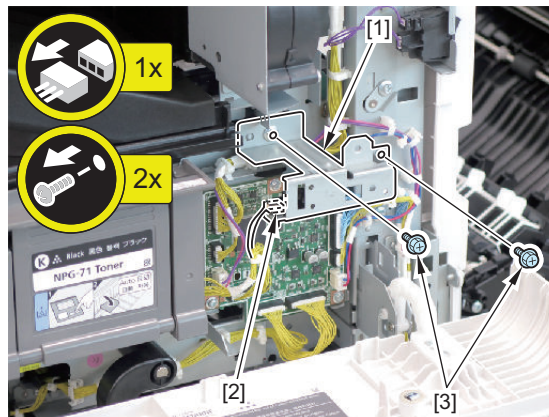


4. Remove the Toner Bottel Right Inner Cover [1].



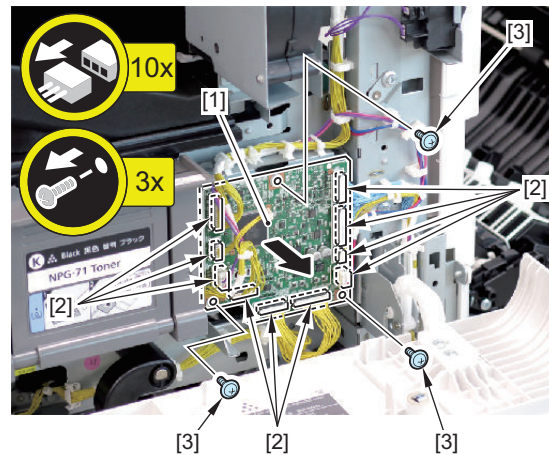
5. Remove the Toner Bottel Right Inner Cover Support Fixture [1].

- 1 Connector [2]
- 2 Screws [3]



6. Remove the Front Driver PCB [1].

- 10 Connectors [2]
- 3 Screws [3]

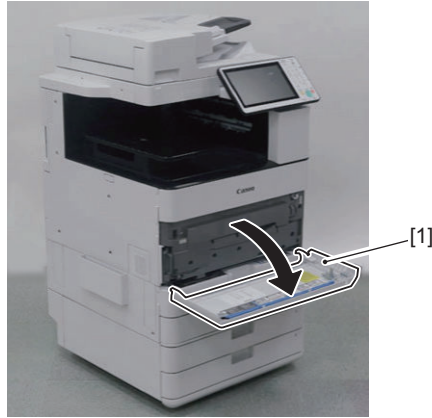


Laser Control System

Cleaning the Dustproof Glass

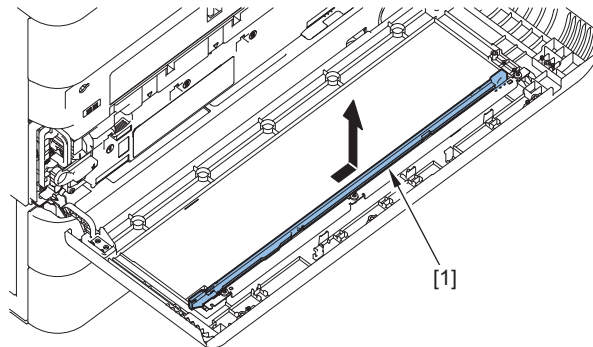
■ Preparation

1. Open the Front Cover [1].

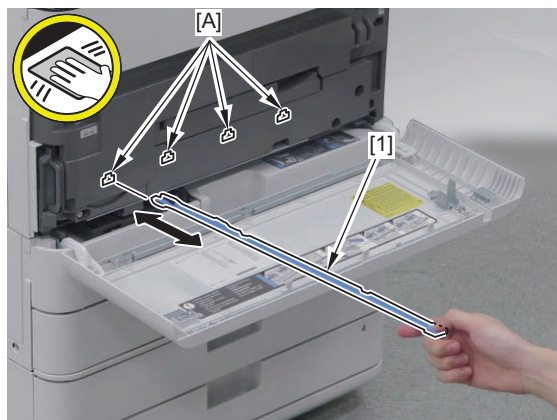


■ Procedure

1. Remove the Dustproof Glass Cleaning Tool [1].



2. Clean the Dustproof Glass from the 4 holes [A] on the Process Unit Front Cover using the Dustproof Glass Cleaning Tool [1].



● Removing the Dustproof Glass Cleaning Pad

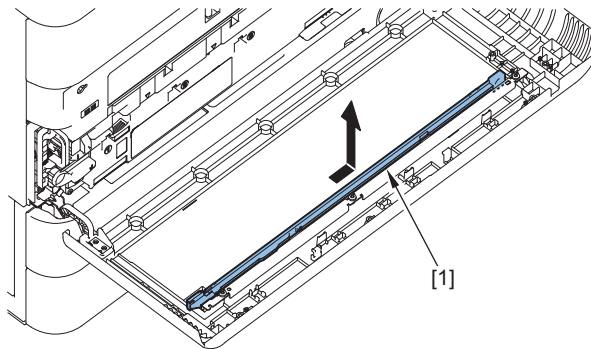
■ Preparation

1. Open the Front Cover [1].



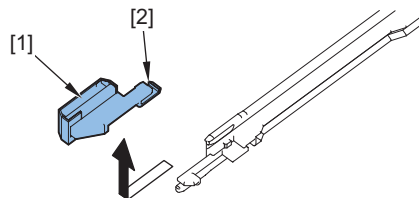
■ Procedure

1. Remove the Dustproof Glass Cleaning Tool [1].



2. Remove the Dustproof Glass Cleaning Pad [1].

- 1 Claw [2]



● Removing the Laser Scanner Unit

■ Preparation

1. Removing the ITB Unit “[Removing the ITB Unit](#)” on page 303
2. Removing the Process Unit “[Removing the Process Unit](#)” on page 344

■ Procedure

CAUTION:

Before removing the Laser Scanner Unit, be sure to check the serial numbers on the 2 units and the location where the unit is installed.

Before installing the units, be sure to refer to the serial numbers described above and install each unit to the same location as that before installation.

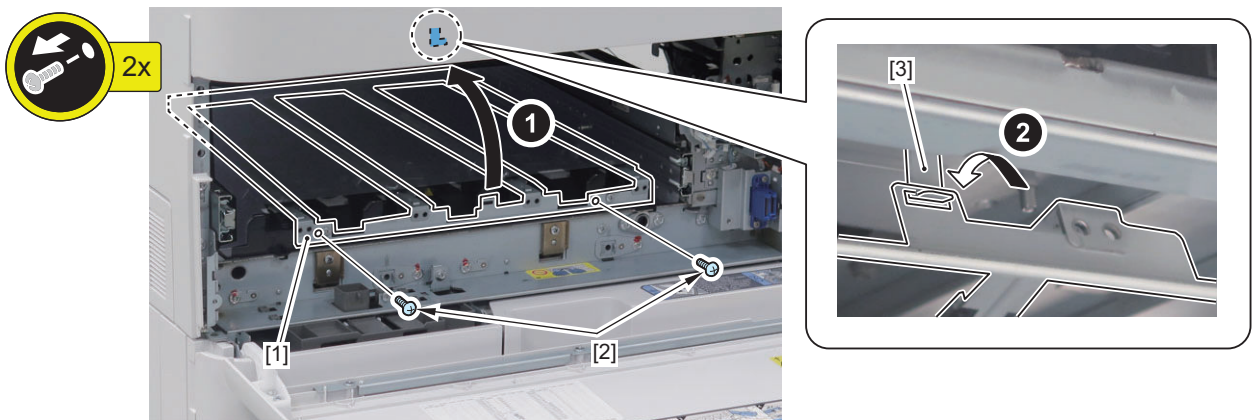
If the installation locations of the units are switched by mistake, image displacements may occur.

NOTE:

This procedure shows removal of the Laser Scanner Unit for C/Bk. (The same procedure applies to the Laser Scanner Unit for Y/M, except for some additional works described later.)

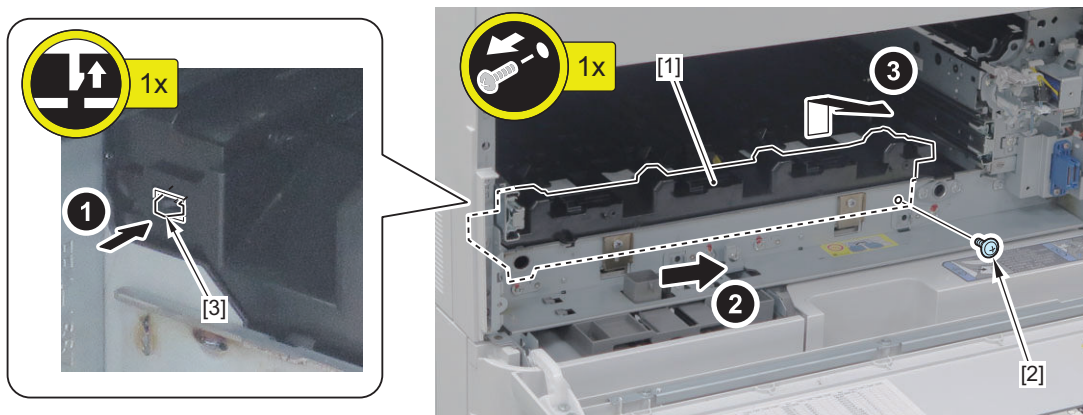
1. Lift and hook the Drum Heater [1].

- 2 Screws [2]
- 1 Hook [3]



2. Remove the Image Formation Suction Duct [1].

- 1 Screw [2]
- 1 Claw [3]

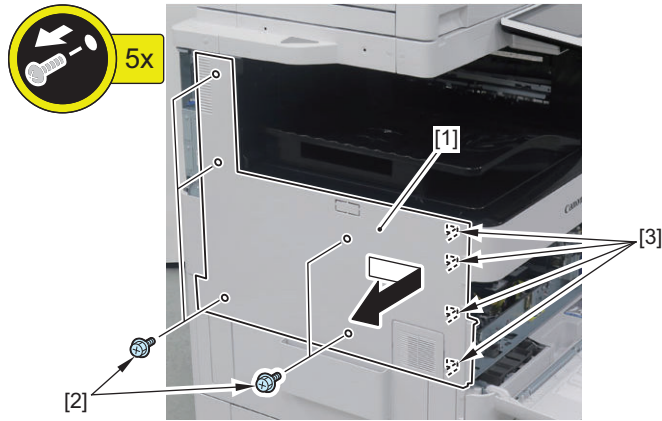


NOTE:

The following steps 3 and 4 are required only when removing the Laser Scanner Unit 1 (for Y/M).

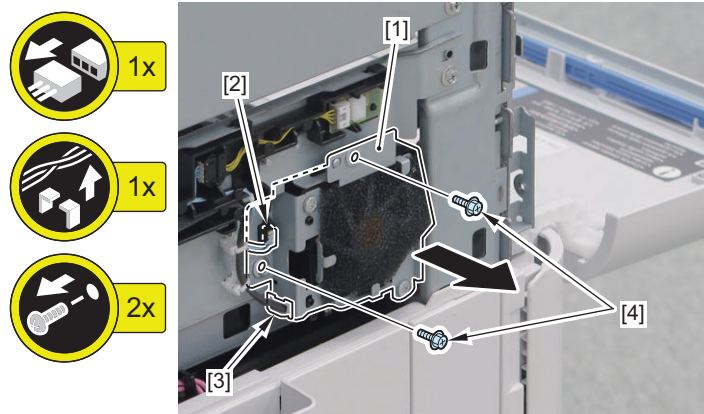
3. Slide and remove the Left Upper Cover [1] toward the front.

- 5 Screws [2]
- 4 Hooks [3]



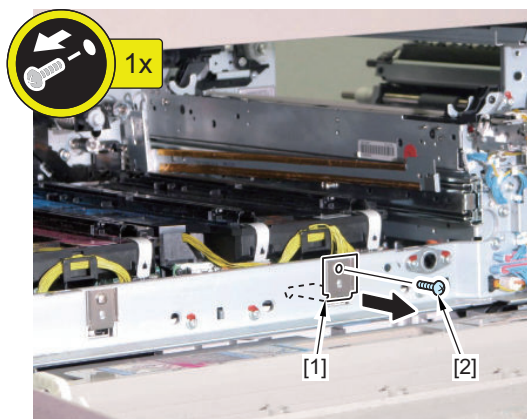
4. Remove the Left Duct Unit [1].

- 1 Connector [2]
- 1 Edge Saddle [3]
- 2 Screws [4]



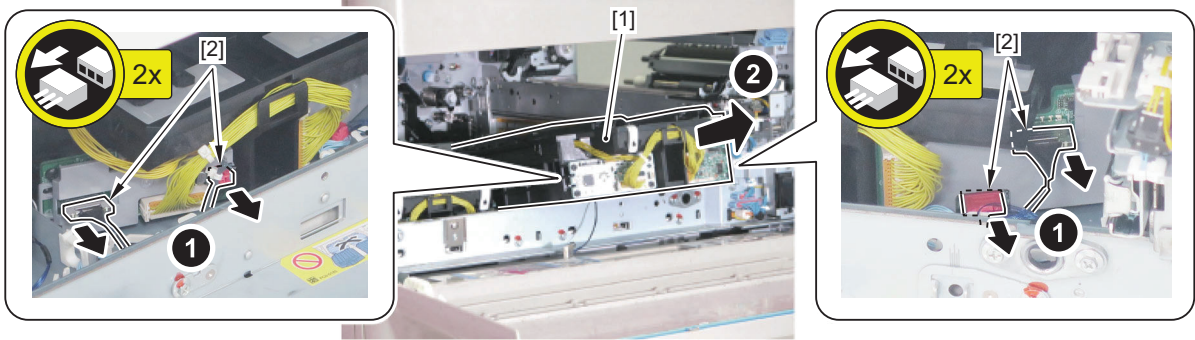
5. Remove the Scanner Fixation Spring [1].

- 1 Screw [2]



6. Remove the Laser Scanner Unit [1].

- 4 Connectors [2]

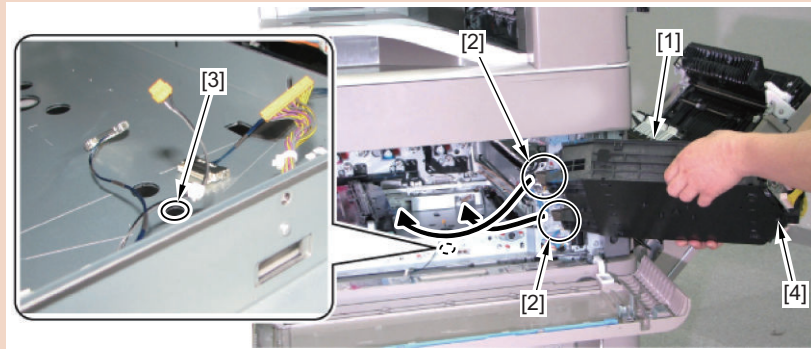


CAUTION:

Do not disassemble the Laser Scanner Unit because it requires adjustment.

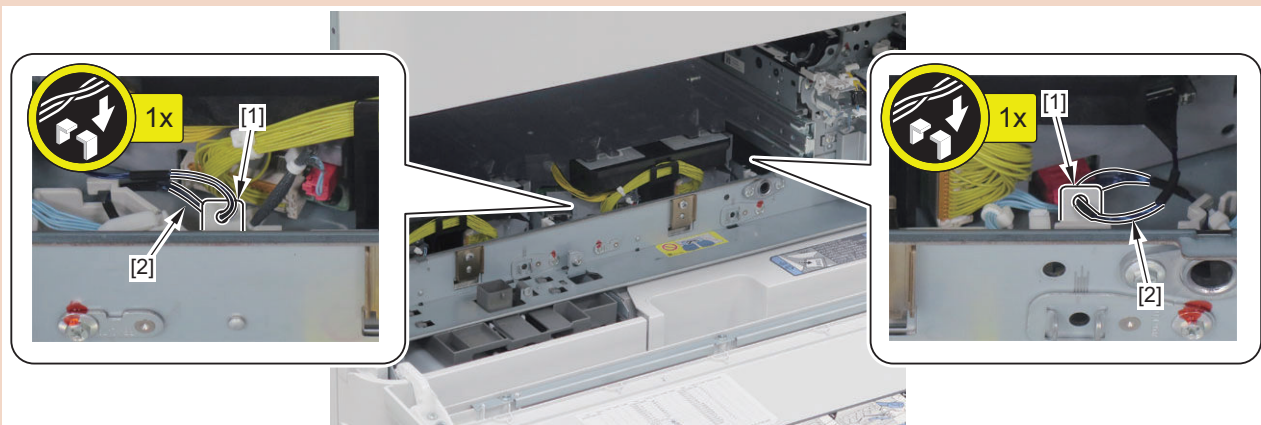
CAUTION:

When installing the Laser Scanner Unit [1], be sure to insert its protrusion [2] into the hole [2] of the Rear Plate and fit the boss on the front side with the hole on the plate.



CAUTION:

During the installation, be sure to pass the 2 harnesses [2] through the Sheet Guide [1].



CAUTION:

Actions after Replacement: [“Actions after Parts Replacement” on page 477](#)

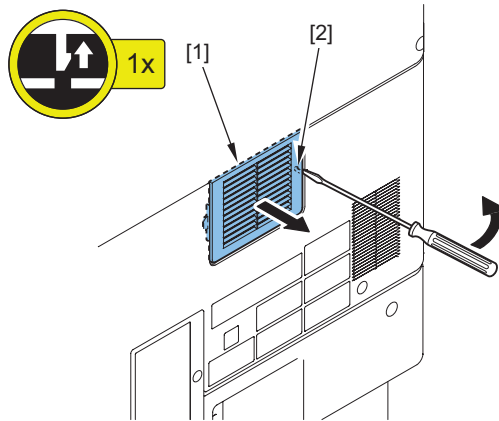
Image Formation System

● Removing the Toner Filter

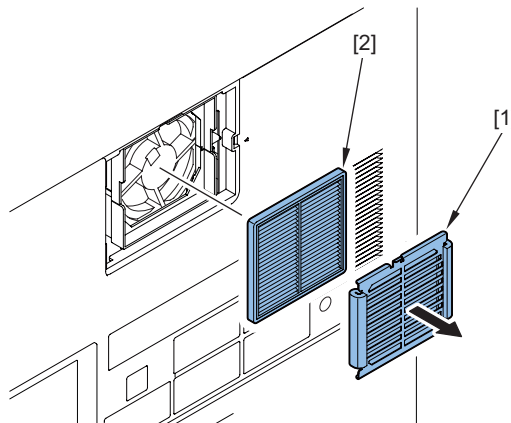
■ Procedure

1. Remove the Toner Filter Cover [1].

- 1 Claw [2]



2. Remove the Fan Protection Plate [1] and Toner Filter [2].



CAUTION:

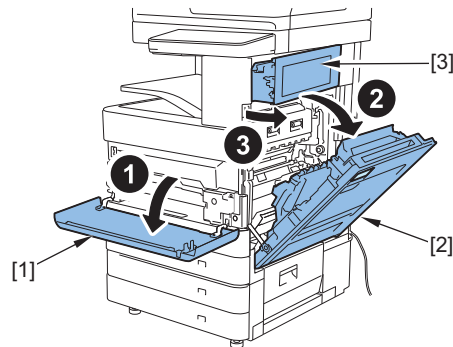
Clear the parts counter in the following service mode after replacing the Toner Filter.

- COPIER > COUNTER > DRBL-1 > TN-FIL1

Removing the ITB Unit

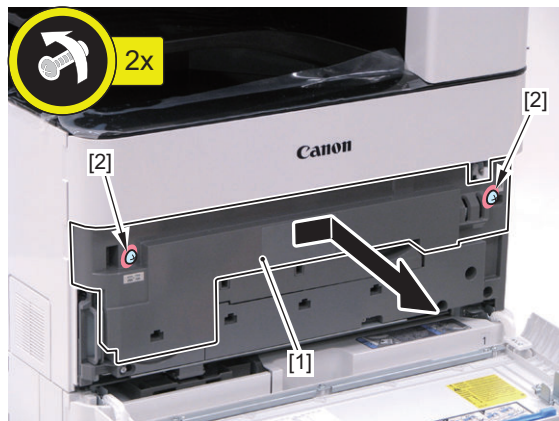
Preparation

1. Open the Front Cover, Right Lower Cover, and Right Upper Cover.



2. Removing the ITB Cover [1]

- 2 Screws [2] (to loosen)



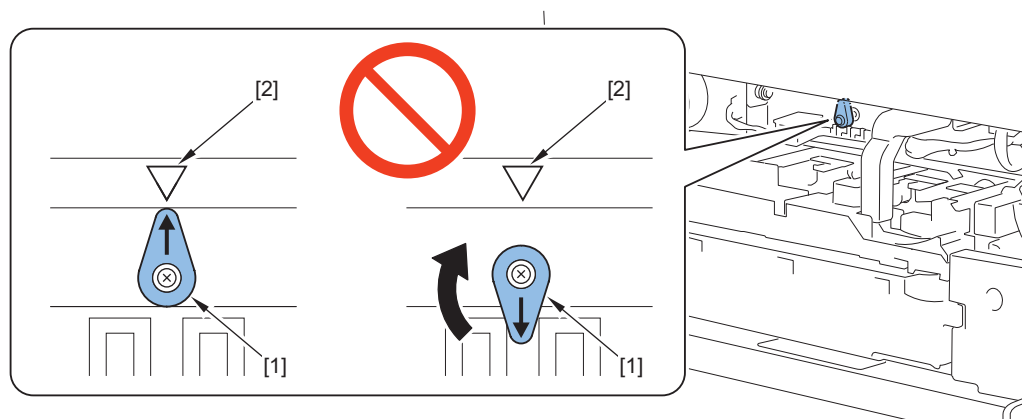
CAUTION:

- Do not touch the surface of the ITB.
- When installing the ITB Cover, be sure to push it to the left. If the pushing is insufficient, the plate is not inserted to the slit of the ITB Cover, which may cause the damage of the sensor.

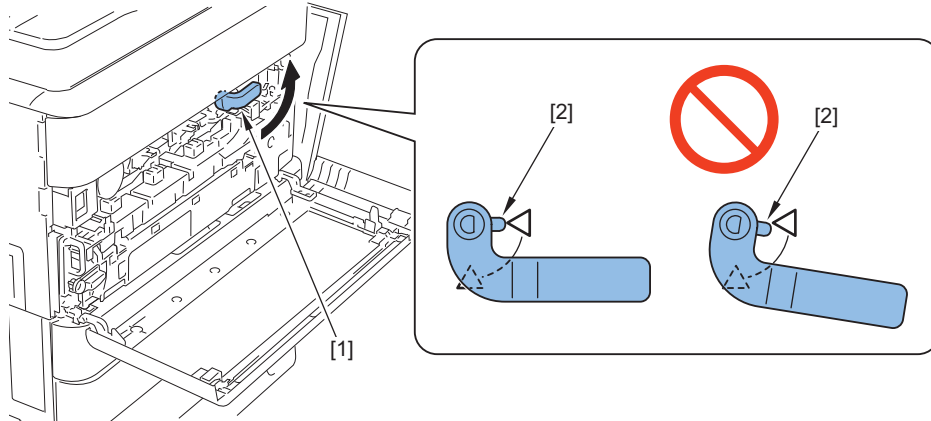
Procedure

1. Be sure to check that the arrow on the ITB Sub Pressure Release Lever [1] is aligned with the triangle mark [2] on the plate.

(If not, align the arrow on the lever with the triangle mark on the plate.)



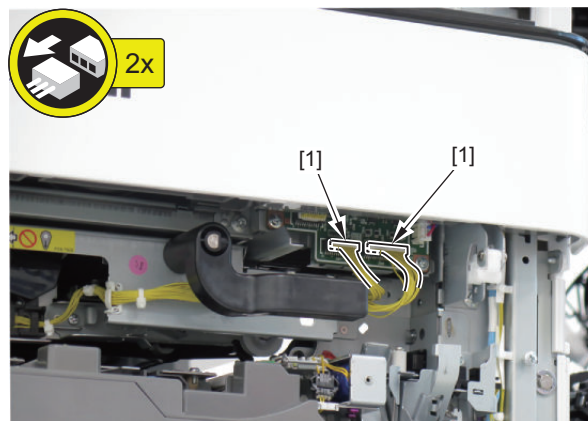
- Turn the ITB Pressure Release Lever [1] in the direction of the arrow until the protrusion [2] on the handle is aligned with the triangle mark on the plate to release the pressure.



CAUTION:

When operating the ITB Pressure Release Lever, be sure to check that the Right Lower Cover is opened before the operation.

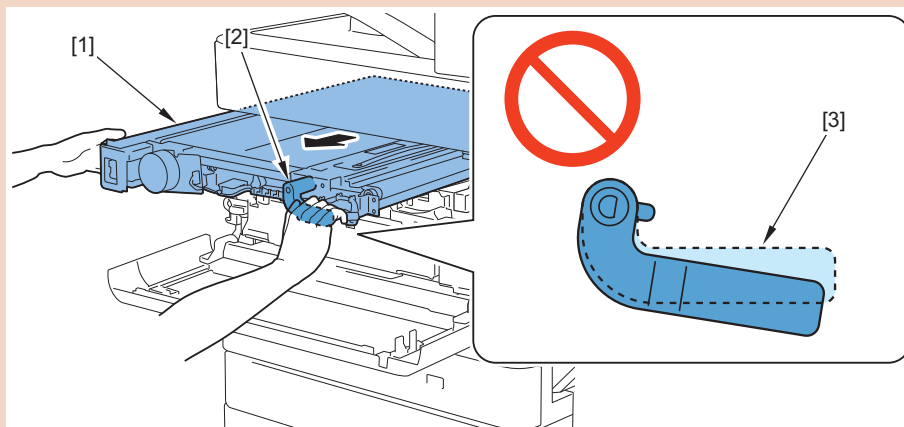
- Disconnect the 2 connectors [1].



CAUTION:

When pulling out the ITB Unit [1], be sure not to lower the ITB Pressure Release Lever [2] below the position [3] where it clicks. If the ITB Unit is pulled out while the lever is lowered, the ITB is scraped by the plate and this may cause scratches on the ITB surface.

Also be sure that the Process Unit is not pulled out. If it is pulled out, the clearance with the ITB Unit becomes smaller, which may result in damage to the surface of the ITB.

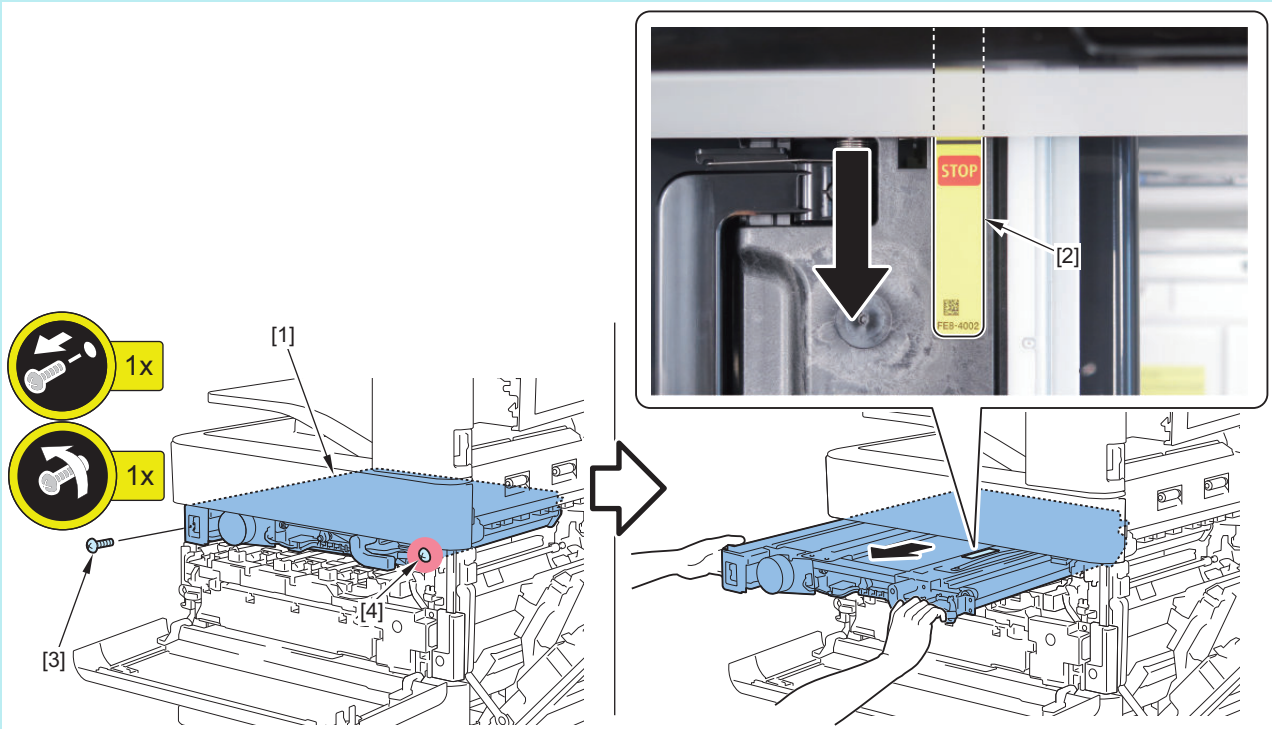


4. Pull out the ITB Unit [1] to the stop label position [2].

- 2 Screws [3]

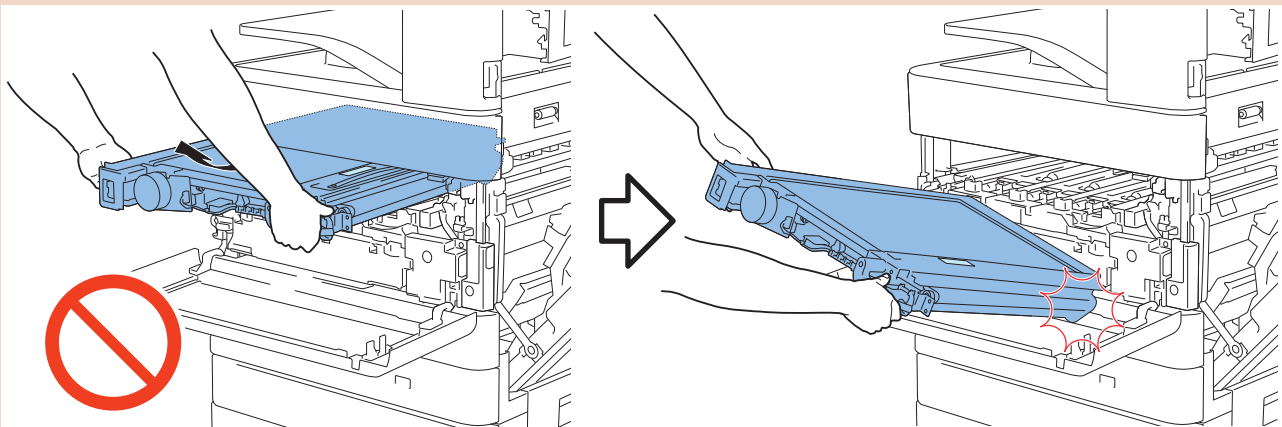
NOTE:

The screw [4] may have the Screw Cap attached as the fall prevention measure.

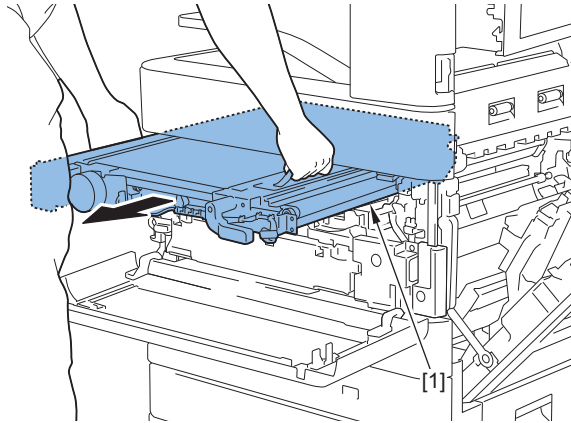


CAUTION:

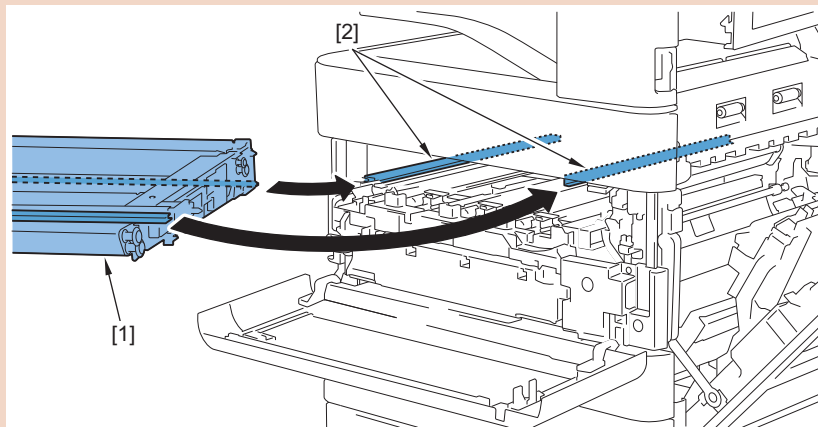
When pulling out the ITB Unit, be sure not to lift it up as this may cause the unit not to click at the stop position and fall.



5. Hold the ITB Unit [1] as shown in the figure and remove it in the direction of the arrow. Put the ITB Unit on paper to prevent scattering of toner from the ITB Cleaning Unit.

**CAUTION:**

- When the ITB Unit is removed even if it is not replaced, execute COPIER > FUNCTION > MISC-P > ITB-INIT.
- Be careful not to make mistakes when installing the ITB Unit since there is no compatibility with the existing products (iR-ADV C52XX/iR-ADV C50XX).
- When installing the ITB Unit [1], be sure to align it with the 2 ends of the rails [2].

**CAUTION:**

Actions after Replacement: [“Adjustment after installing ITB Unit” on page 478](#)

Cleaning the Registration Patch Sensor

■ Preparation

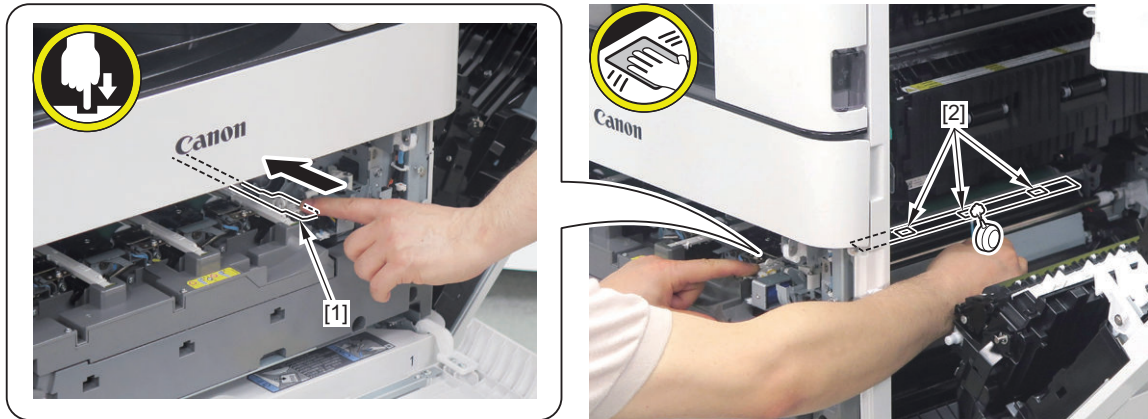
1. Removing the ITB Unit [“Removing the ITB Unit” on page 303](#)

■ Procedure

1. While pressing the shutter [1], clean the surface [2] of the Registration Patch Sensor in a single direction with a wet and tightly-wrung cotton swab. After cleaning, check that there is no soiling caused by toner on the surface of the sensor.

CAUTION:

- Do not clean the Registration Patch Sensor [1] with dry lint-free paper which causes electrostatic charge on the sensor lens and paper dust may be easily adsorbed on it.
- Do not clean the Registration Patch Sensor [1] with lint-free paper moistened with alcohol or the sensor lens may become clouded.



CAUTION:

Actions after Replacement : "Adjustment after installing ITB Unit" on page 478

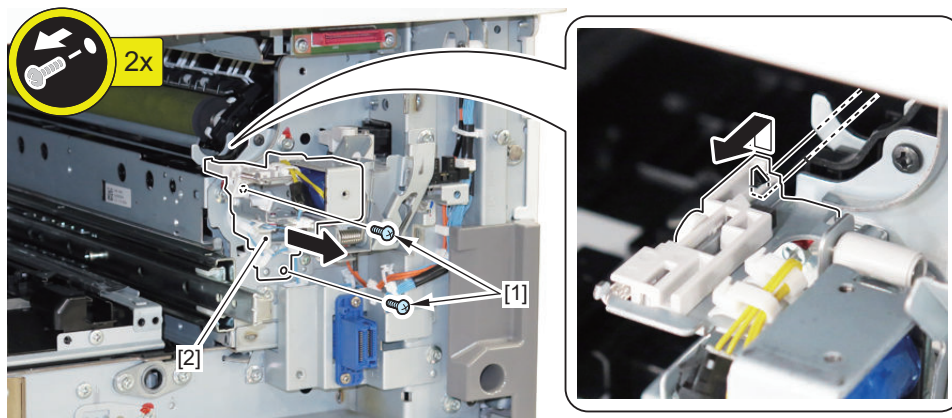
● Removing the Registration Patch Sensor (Front), (Middle), (Rear)

■ Preparation

1. Removing the ITB Unit "Removing the ITB Unit" on page 303
2. Removing the Process Unit "Removing the Process Unit" on page 344

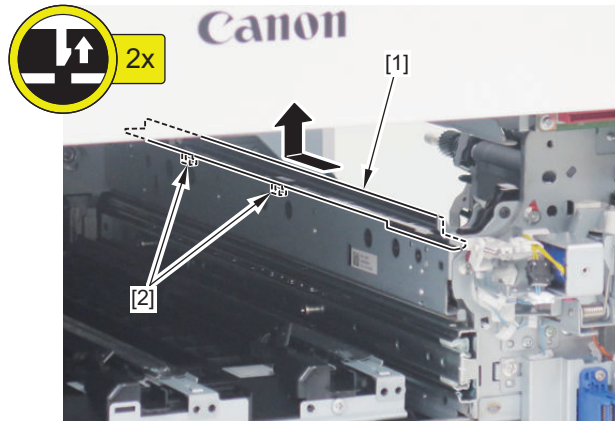
■ Procedure

1. Remove the 2 screws [1], and then remove the Shutter Drive Unit [2] of the sensor.



2. Remove the shutter [1] of the sensor.

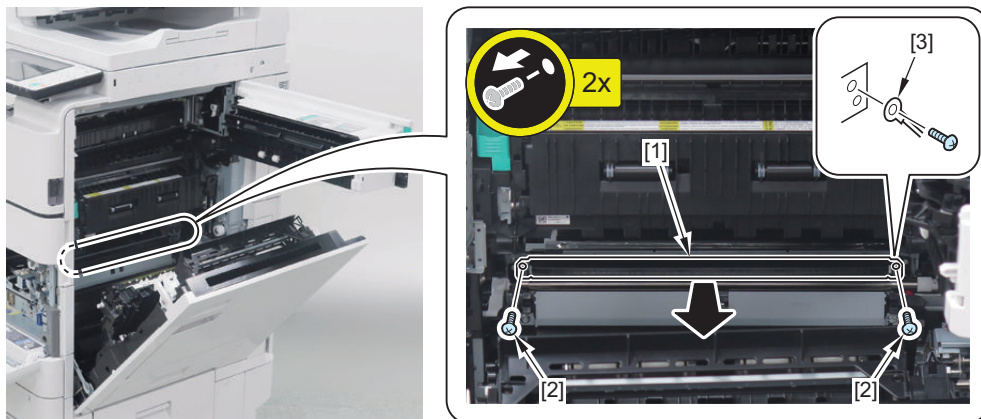
- 2 Claws [2]



3. Remove the Pre-secondary Transfer Guide [1].

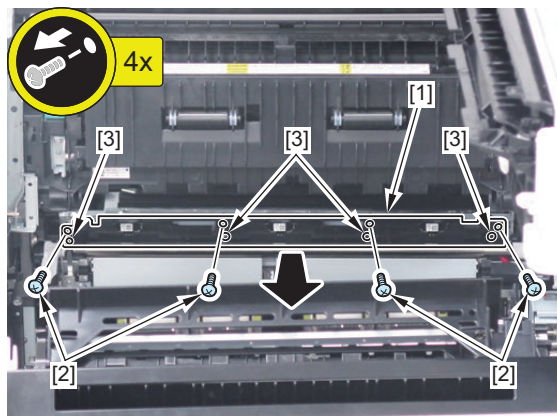
Take care to not apply too much force to the Pre-secondary Transfer Guide.

- 2 Screws [2]
- 1 Grounding Wire [3]

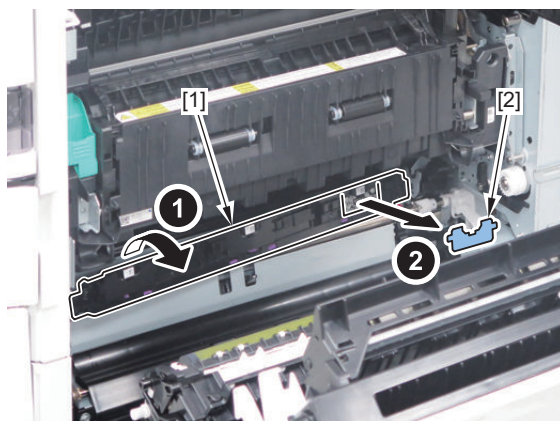


4. Remove the Registration Patch Sensor Unit [1].

- 4 Screws [2]
- 4 Bosses [3]

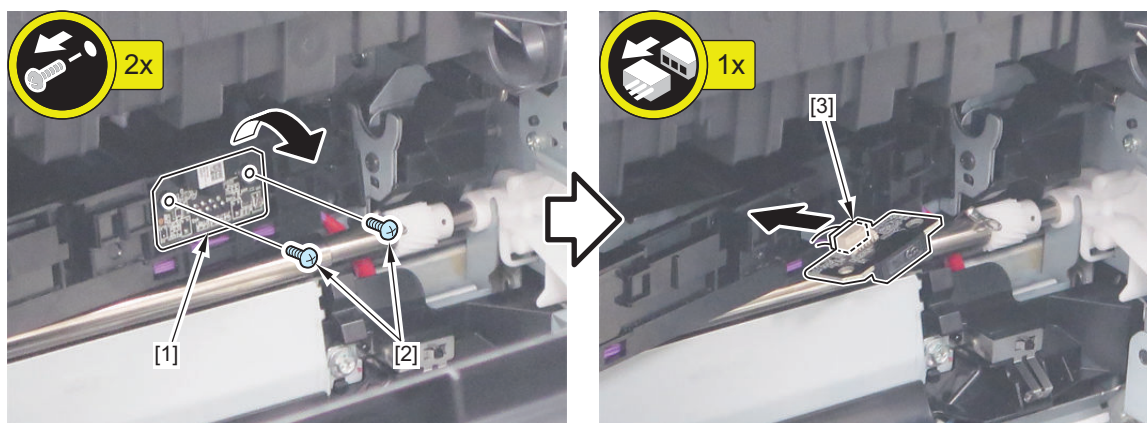


5. Pull out the Registration Patch Sensor Unit [1], and remove the Cover [2]. (Example of the Registration Patch Sensor (Rear))



6. Pull out the sensor [1], disconnect the connector, and remove the sensor you want to replace. (Example of the Registration Patch Sensor (Rear))

- 2 Screws [2]
- 1 Connector [3]



CAUTION:

Actions after Replacement: [“Actions after Parts Replacement”](#) on page 480

● Removing the ITB Cleaning Unit

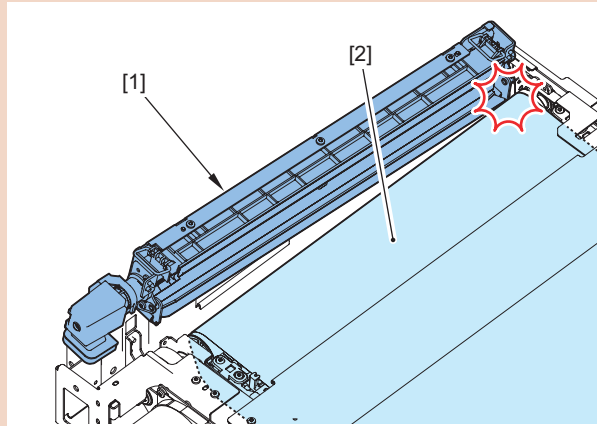
■ Preparation

1. Removing the ITB Unit [“Removing the ITB Unit”](#) on page 303

■ Procedure

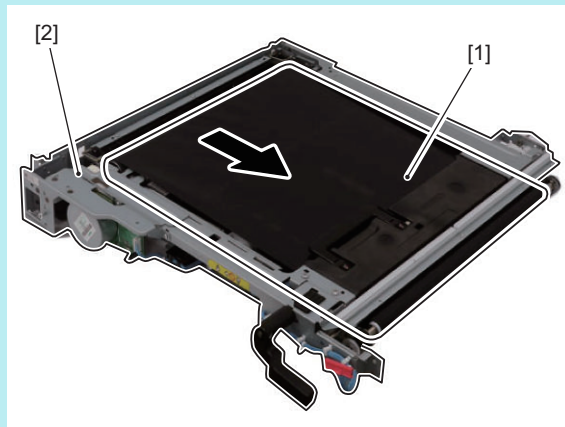
CAUTION:

When installing/removing, be sure to keep the ITB Cleaning Unit [1] from coming in contact with the ITB [2].



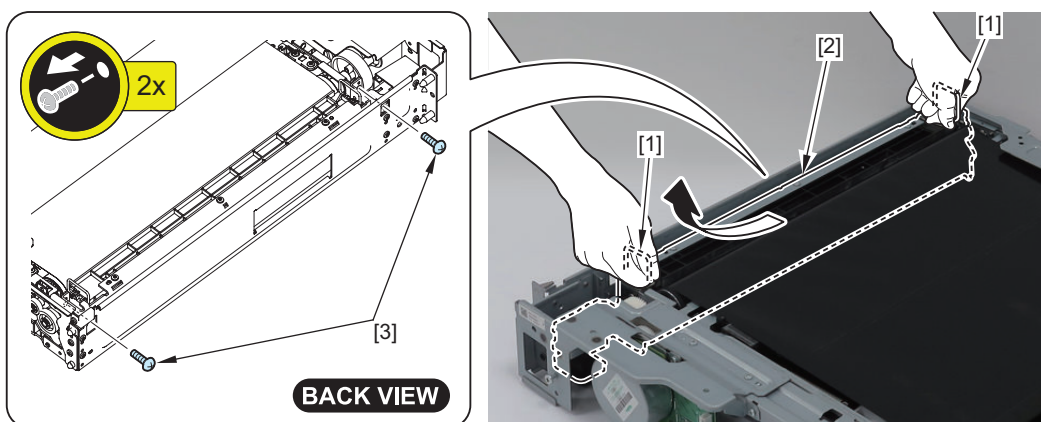
NOTE:

Moving the ITB [1] away from the ITB Cleaning Unit [2] will generate a clearance, making the work easier.

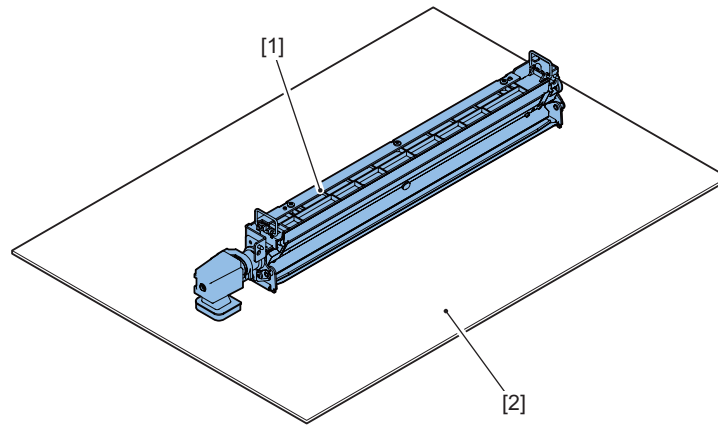


1. Hold the handles [1] on the right and left side and remove the ITB Cleaning Unit [2] in the direction of the arrow.

- 2 Screws [3]



2. Put the removed ITB Cleaning Unit [1] on the paper [2].



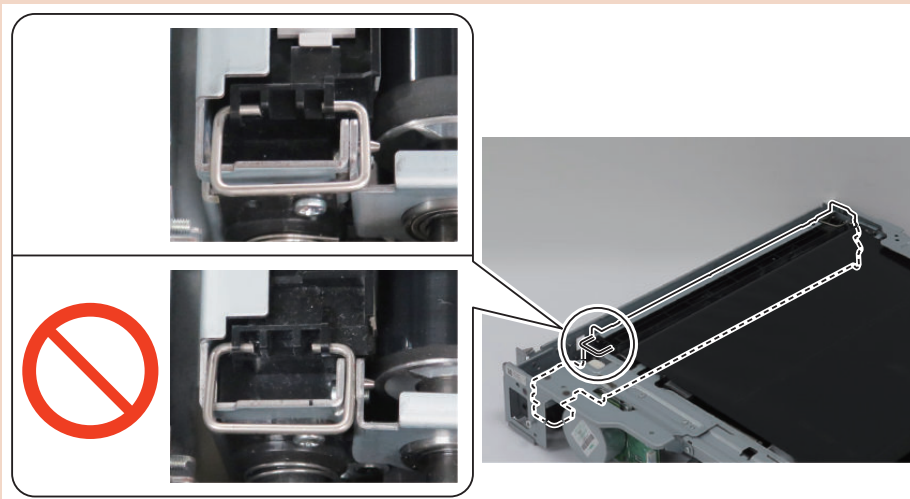
CAUTION:

Clear the parts counter in the following service mode after replacing the ITB Cleaning Blade Unit.

- COPIER > COUNTER > DRBL-1 > T-CLN-BD

CAUTION:

Be sure to check that the handle is not caught when installing the ITB Cleaning Unit.



CAUTION:

Actions after Replacement: [“Adjustment after installing ITB Unit” on page 478](#)

● Removing the ITB Cleaning Blade Unit

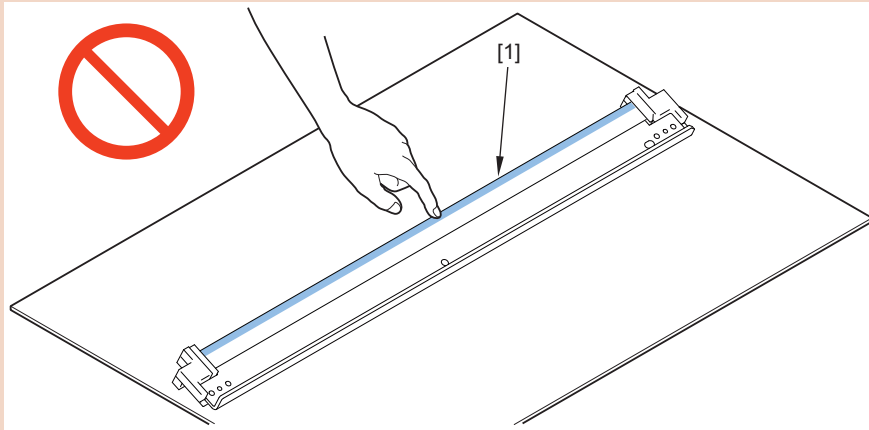
■ Preparation

1. Removing the ITB Unit [“Removing the ITB Unit” on page 303](#)
2. Removing the ITB Cleaning Unit [“Removing the ITB Cleaning Unit” on page 309](#)

■ Procedure

CAUTION:

Be sure not to touch the ITB Cleaning Blade [1].

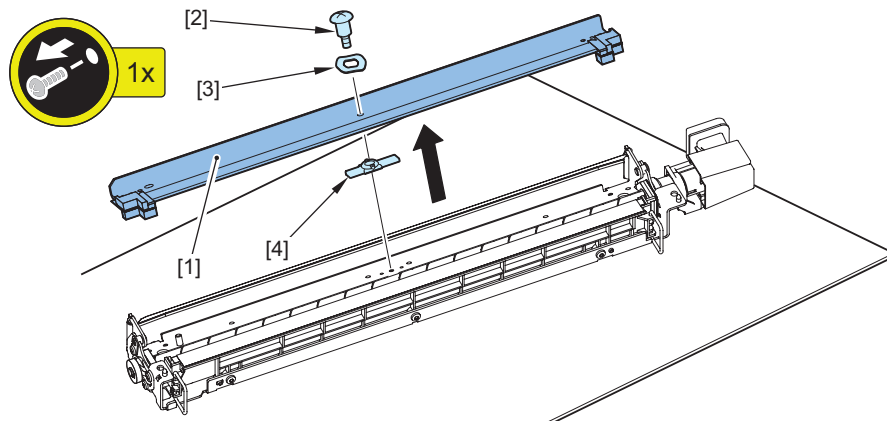
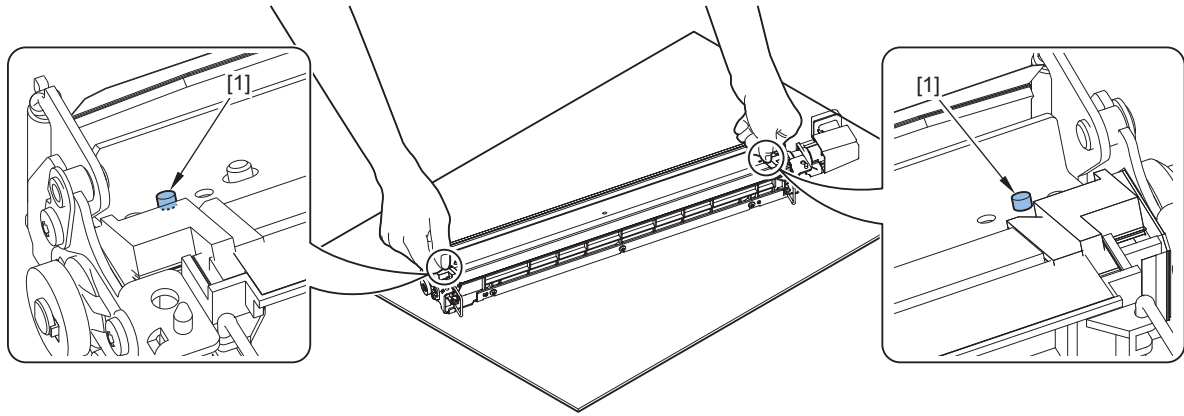


1. Remove the ITB Cleaning Blade Unit [1] and put it on paper.

- 1 Stepped Screw [2]
- 1 Wave Washer [3]
- 1 Blade Alignment Plate [4]

NOTE:

The ITB Cleaning Blade Unit can be removed easily by holding the ends of the 2 screws [1] of the unit.

**CAUTION:**

Clear the parts counter in the following service mode after replacing the ITB Cleaning Blade Unit.

- COPIER > COUNTER > DRBL-1 > T-CLN-BD

CAUTION:

Actions after Replacement: [“Adjustment after installing ITB Unit”](#) on page 478

Installing the ITB Cleaning Blade Unit

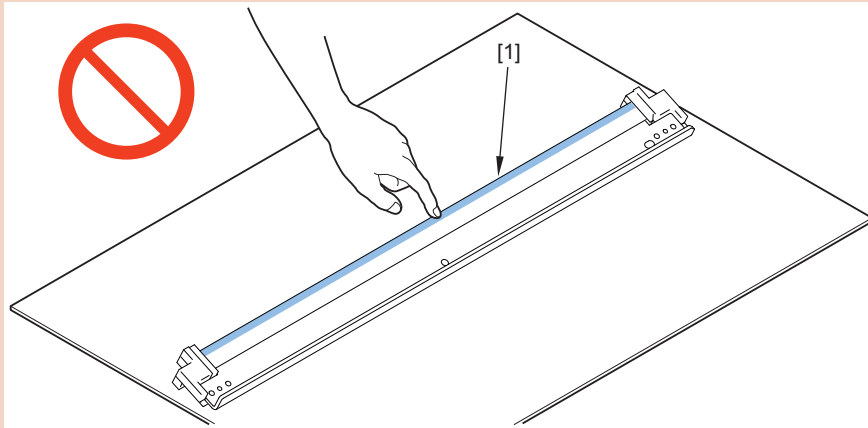
■ Preparation

1. Removing the ITB Unit [“Removing the ITB Unit”](#) on page 303
2. Removing the ITB Cleaning Unit [“Removing the ITB Cleaning Unit”](#) on page 309
3. Removing the ITB Cleaning Blade Unit [“Removing the ITB Cleaning Blade Unit”](#) on page 311

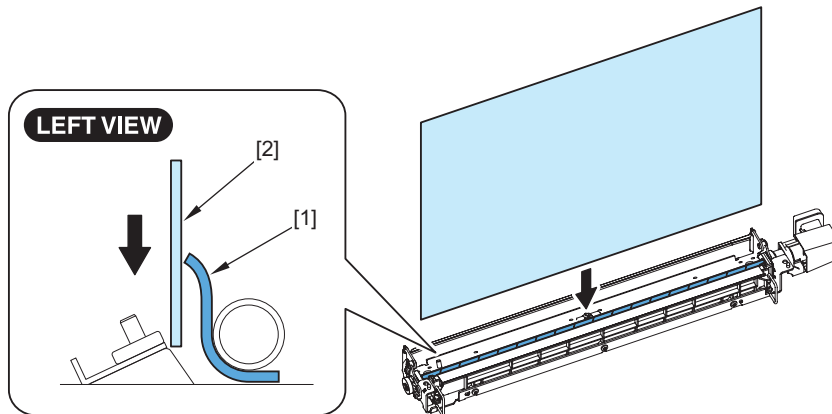
■ Procedure

CAUTION:

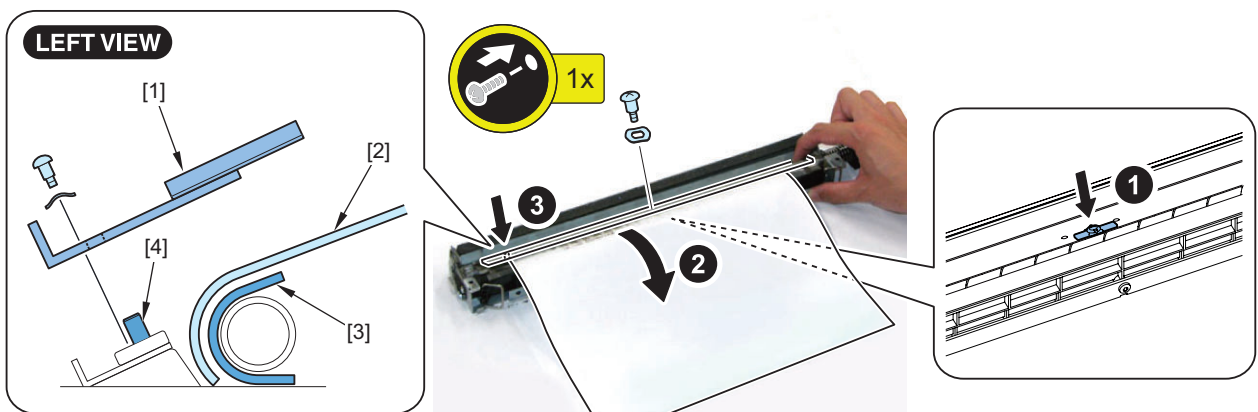
Be sure not to touch the ITB Cleaning Blade [1].



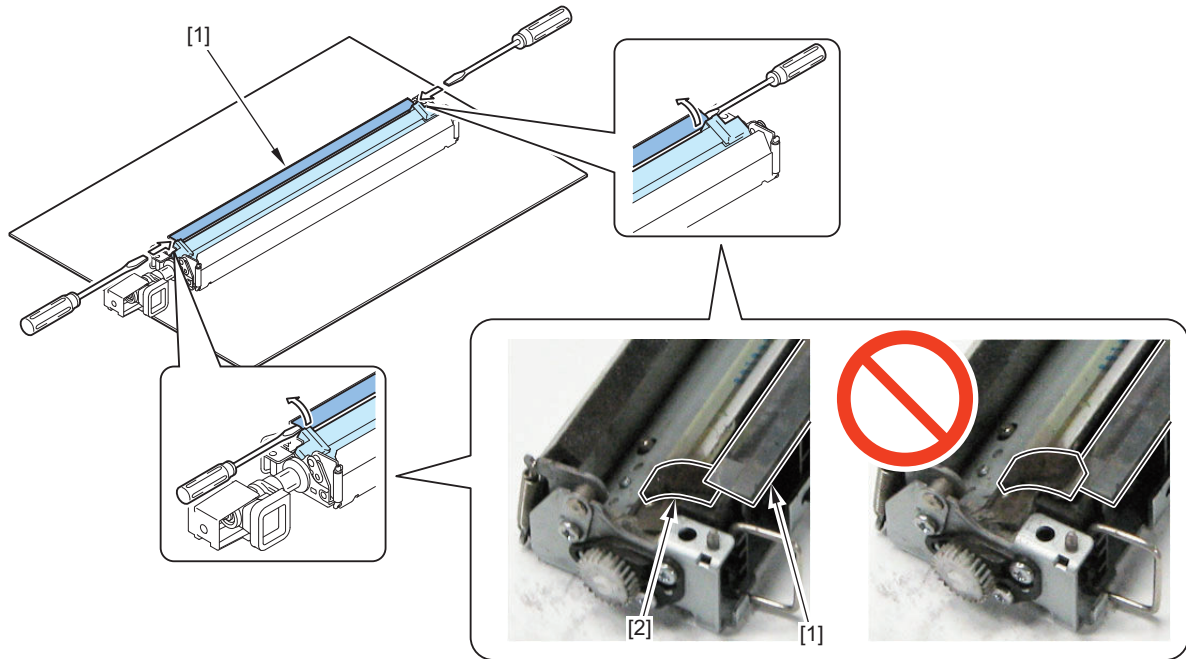
1. Insert a sheet of A4 size paper [2] between the Blade Unit installation position of the ITB Cleaning Unit and the sheet [1].



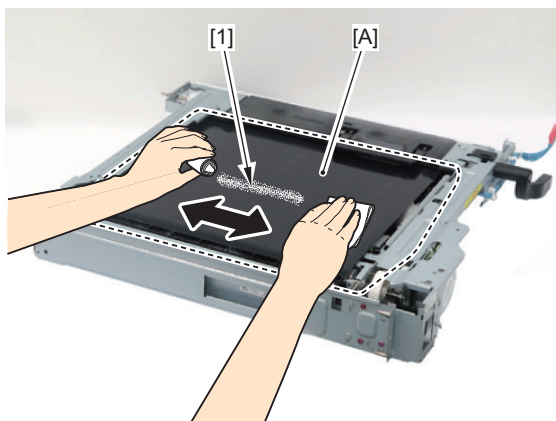
2. Install the Blade Alignment Plate, and then install the ITB Cleaning Blade Unit [1]. At this time, be sure to move the paper [2] inserted in step 1 toward the direction shown in the figure to prevent the sheet [3] from flipping in advance.



3. While paying attention not to bend the Protection Sheet [1], lift the sheet using a screwdriver. After that, check that the sheet that is being lifted is above the pad [2].



4. Apply Tospearl [1] to a whole area [A] shown in the figure below.

**NOTE:**

Example when applying Tospearl

**CAUTION:**

When applying Tospearl, be careful not to scatter it inside the ITB or on the Drive Roller or Secondary Transfer Inner Roller. If it scatters inside the ITB or on the Drive Roller or Secondary Transfer Inner Roller, wipe it off using lint-free paper moistened with alcohol while rotating the motor by hand. Be sure to rotate the motor counterclockwise only and be careful not to turn it clockwise.

CAUTION:

Clear the parts counter in the following service mode after replacing the ITB Cleaning Blade Unit.

- COPIER > COUNTER > DRBL-1 > T-CLN-BD

CAUTION:

Actions after Replacement: [“Adjustment after installing ITB Unit” on page 478](#)

Removing the ITB

Preparation

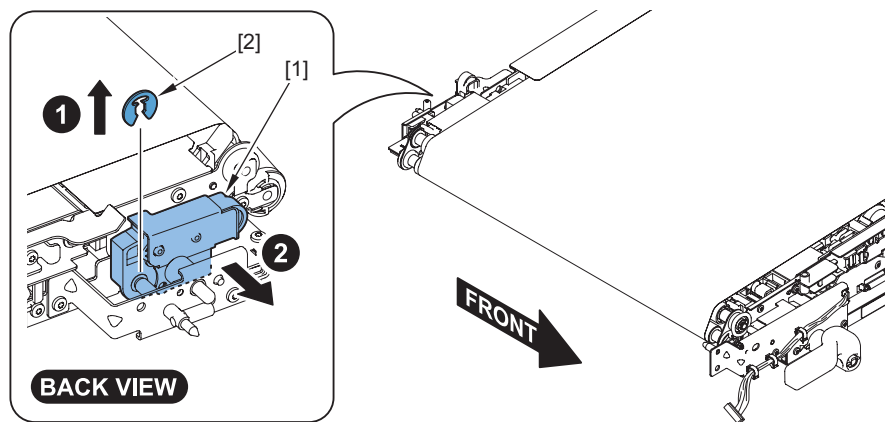
1. Removing the ITB Unit “Removing the ITB Unit” on page 303
2. Removing the ITB Cleaning Unit “Removing the ITB Cleaning Unit” on page 309

CAUTION:

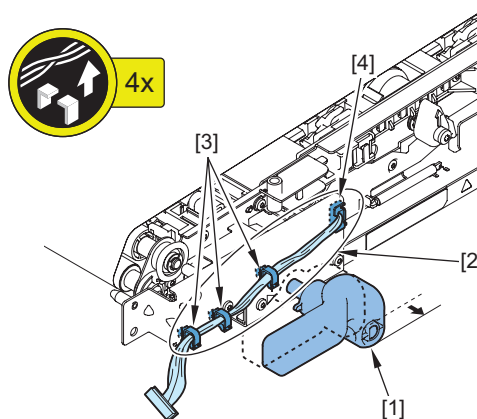
Do not touch the surface of the ITB. (When you touch the ITB, touch the areas within 10mm from each edge of the belt.)

Procedure

1. Turn over the ITB Unit.
2. Remove the Bush Slider [1].
 - 1 E-ring [2]

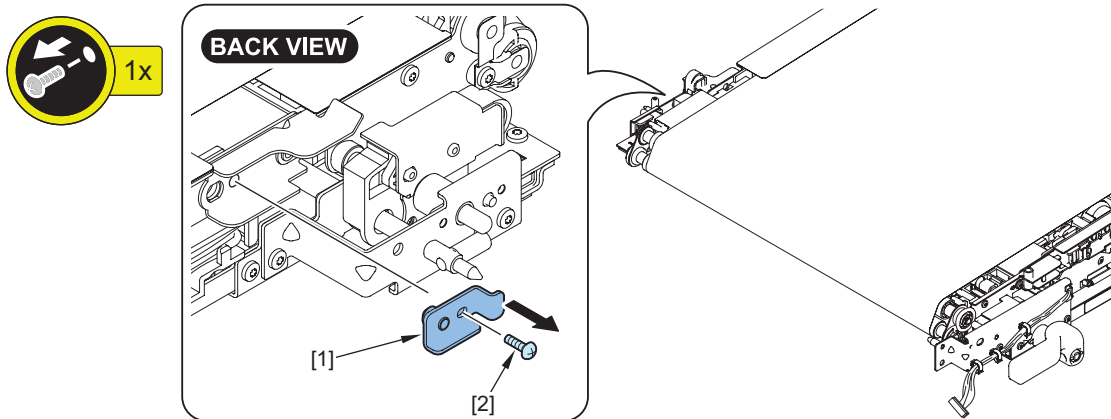


3. Pull the ITB Pressure Release Lever [1] toward the front.
4. Free the harness [2].
 - 3 Wire Saddles [3]
 - 1 Edge Saddle [4]



5. Remove the pin [1] on the rear side.

- 1 Screw [2]



NOTE:

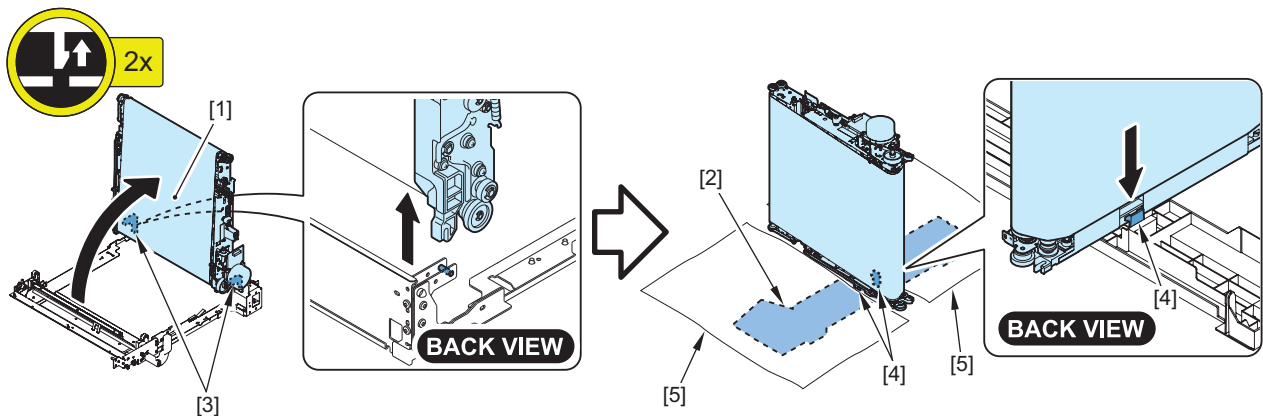
Put the ITB Cover with its upside down at the location where you are going to stand the ITB Unit.

6. Lift up the ITB Unit [1], and stand it on the ITB Cover [2].

CAUTION:

- Be sure to check that it has been freed from the hooks [3] on the front and rear side.
- Be sure to align the claws [4] of the ITB Cover with the cut in the Protection Sheet.
- In order to prevent the ITB from being damaged, be sure to place a sheet of paper [5] between the ITB Unit and the ITB Cover as needed.

- 2 Claws

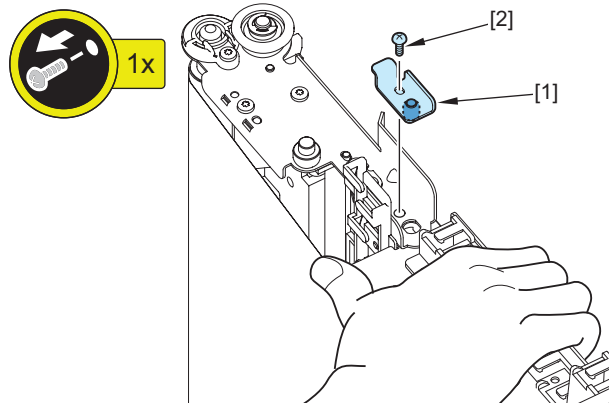


7. Remove the pin [1] on the front side.

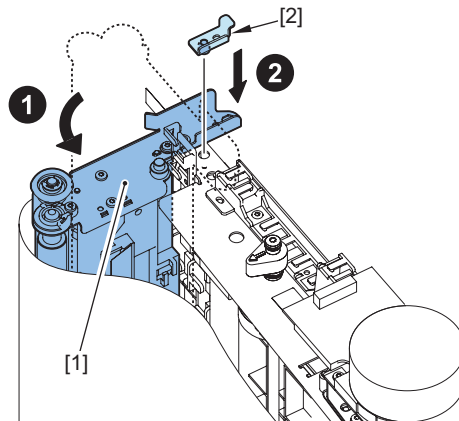
NOTE:

Hold the ITB Unit with a hand while removing the pin to lock the pressure.

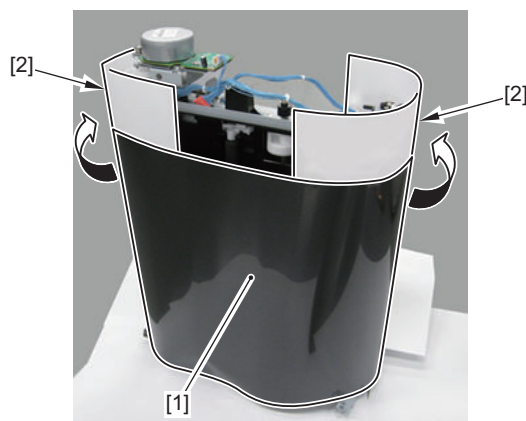
- 1 Screw [2]



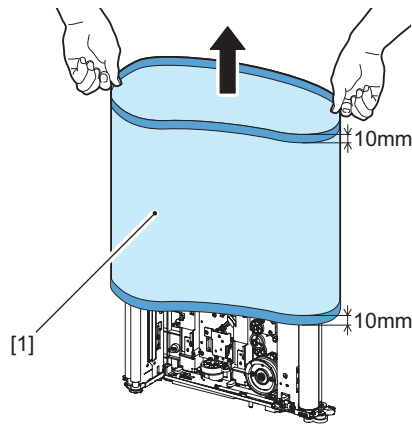
8. Bend the Secondary Transfer Inner Roller Unit [1] at 90 degrees, and secure it with the pin [2] removed in step 7.



9. When removing the ITB [1], insert paper [2] as shown in the figure to prevent it from being damaged by the plate.

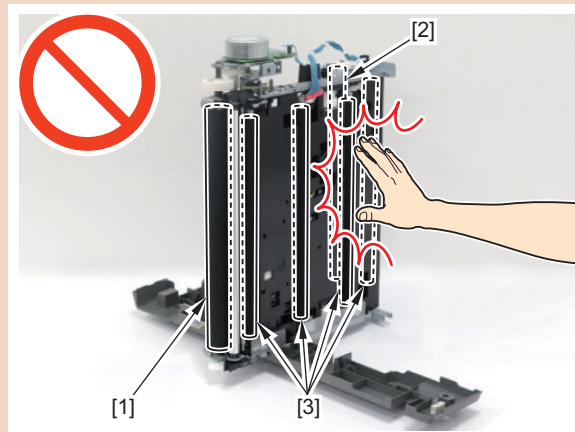


10. Hold the area within 10mm from the edges of the ITB, and remove it upward.



CAUTION:

Do not touch the surface of the ITB Drive Roller [1], Secondary Transfer Inner Roller [2], and Primary Transfer Roller [3]; otherwise, it can cause an image failure.



CAUTION:

Clear the parts counter in the following service mode after replacing the ITB.

- COPIER > COUNTER > DRBL-1 > TR-BLT

CAUTION:

Actions after Replacement: [“Actions after Parts Replacement” on page 478](#)

● Installing the ITB

■ Preparation

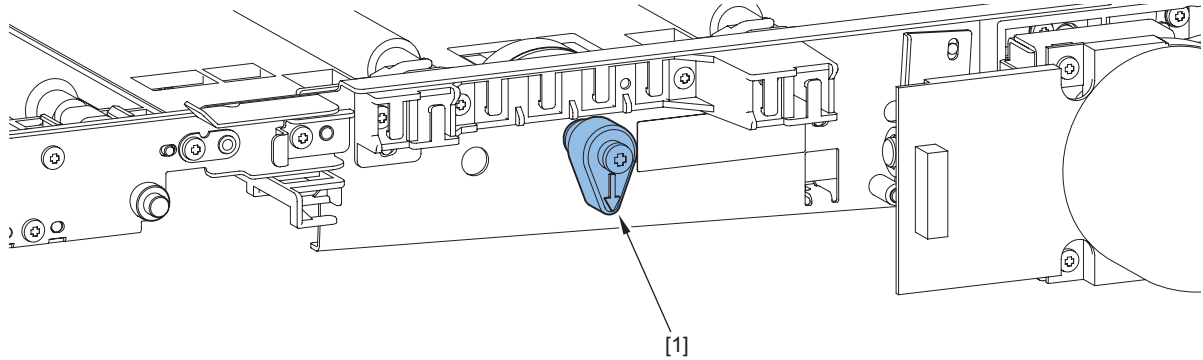
1. Removing the ITB Unit [“Removing the ITB Unit” on page 303](#)
2. Removing the ITB Cleaning Unit [“Removing the ITB Cleaning Unit” on page 309](#)
3. Removing the ITB [“Removing the ITB” on page 317](#)

■ Procedure

CAUTION:

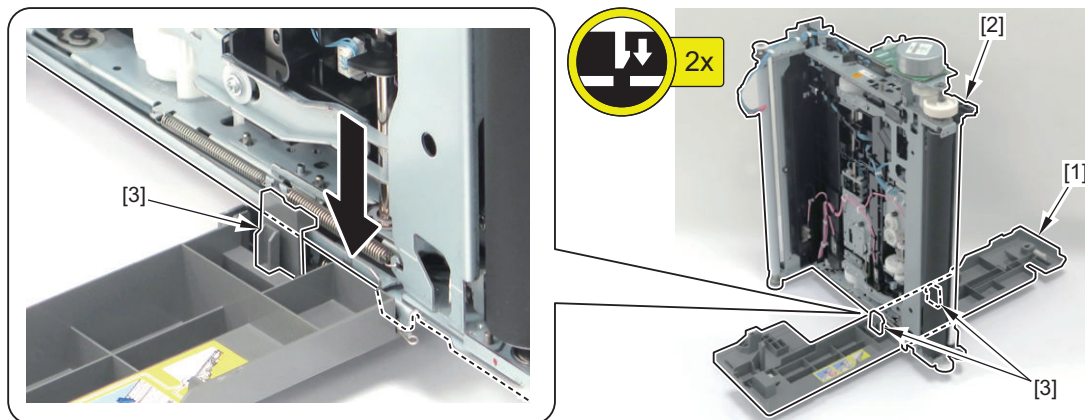
Be careful not to make mistakes when installing the ITB Unit and ITB since there is no compatibility with the existing products (iR-ADV-C52XX series / iR-ADV-C50XX series).

1. Check that the ITB Sub Pressure Release Lever [1] is in the position shown in the figure below.



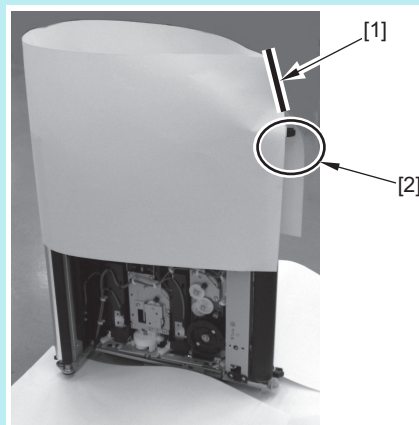
2. Stand the ITB Unit [2] straight up on the ITB Cover [1].

- 2 Claws [3]



NOTE:

If the ITB Installation Auxiliary Sheet included in the package is available, cover the ITB Unit with it as shown in the figure below. (Place the slant area [1] to the ITB Motor side.) The framed area [2] is the area where the ITB is easily damaged, so be sure that the area is covered with the ITB Installation Auxiliary Sheet. After installing the ITB, remove the ITB Installation Auxiliary Sheet.

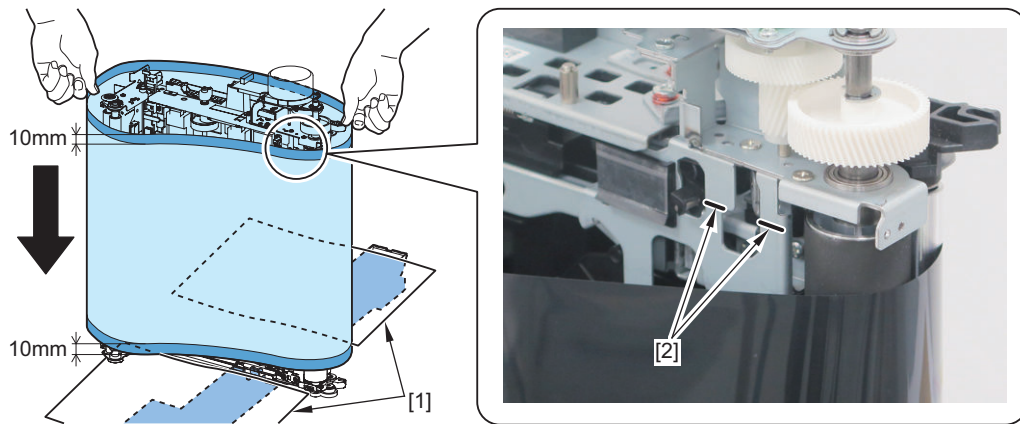


3. Place paper [1] on the ITB Cover to prevent bending of the ITB because pressure is applied to a point when installing the ITB.

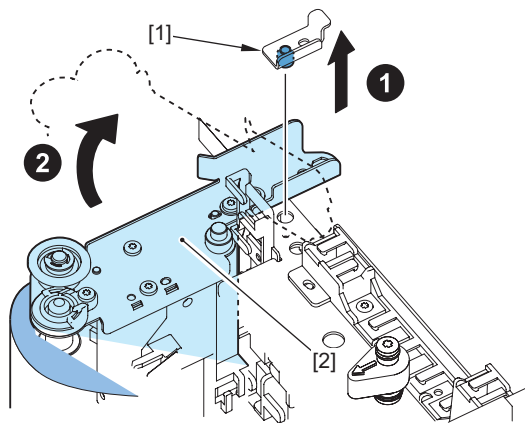
4. Hold the area within 10mm from the edges of the ITB, and temporarily place the ITB using the marking line [2] as a guide.

CAUTION:

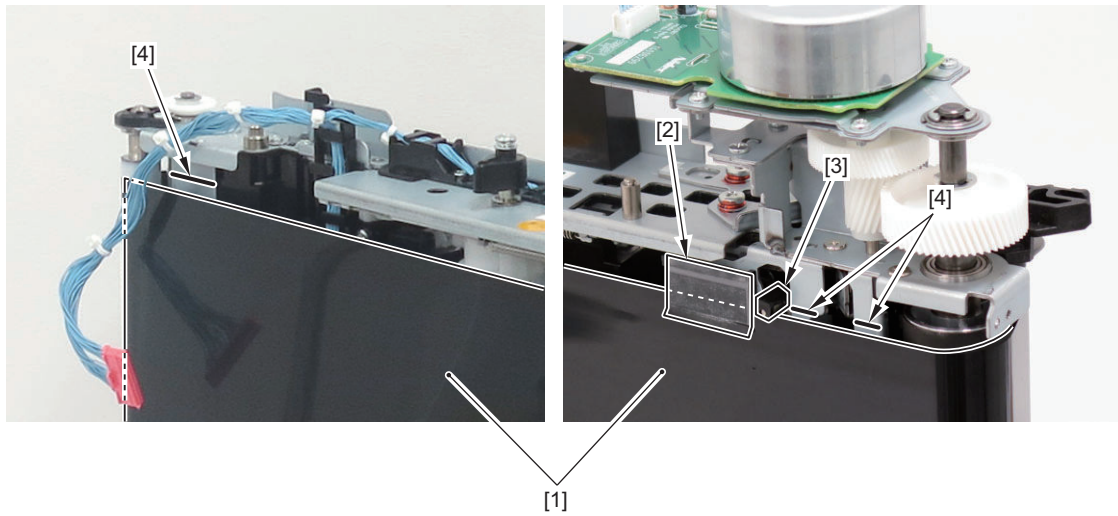
Be careful not to bend the ITB when bringing it down fully.



5. Pull out the pin [1] and straighten the Secondary Transfer Inner Roller Unit [2] for approx. 70%. (To stretch the ITB for approx. 90%.)

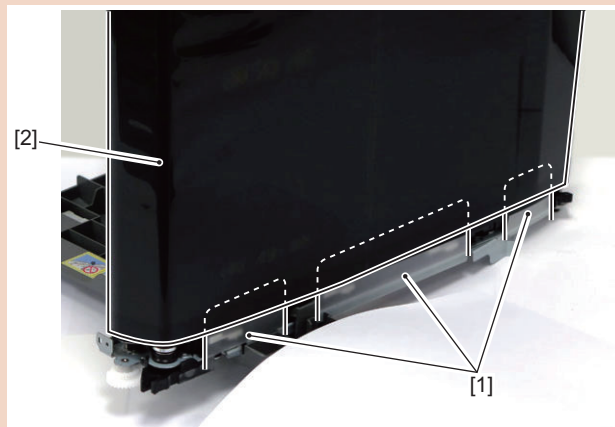


6. Put the ITB [1] under the Belt Retainer Sheet [2] (on the left side of the figure), bring the ITB Displacement Sensor Flag [3] into contact with the ITB edge (at the center of the figure), and then, align the marking line [4] (on the right side of the figure) with the position of the ITB.



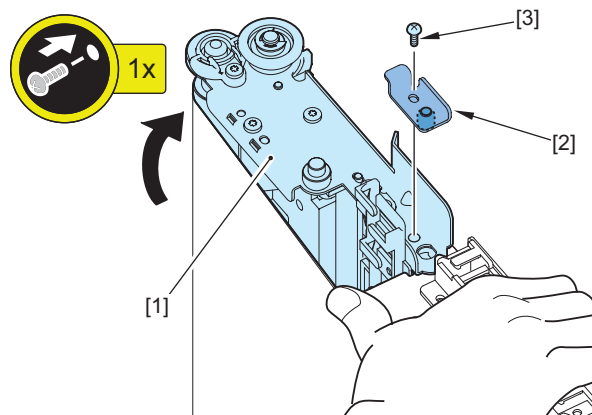
CAUTION:

When installing the ITB, be sure that the sheet [1] on the ITB Unit is inside of the ITB [2].



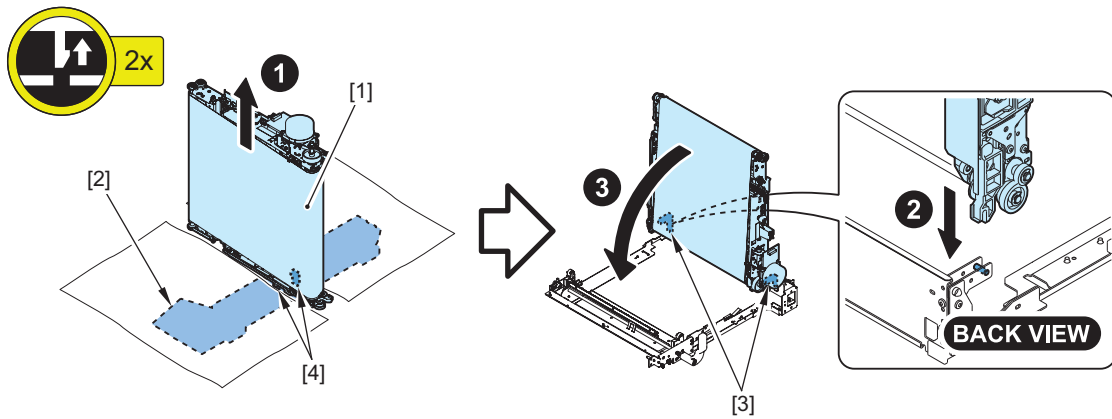
7. Straighten the Secondary Transfer Inner Roller Unit [1] and install the removed pin [2].

- 1 Screw [3]



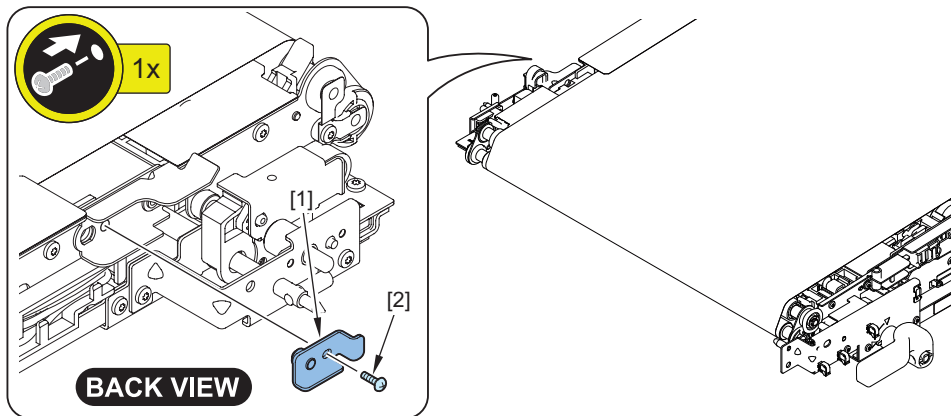
8. Remove the ITB Unit [1] from the ITB Cover [2], and align it with the 2 hooks [3] of the ITB Unit to install it to the plate (outer frame).

- 2 Claws [4]



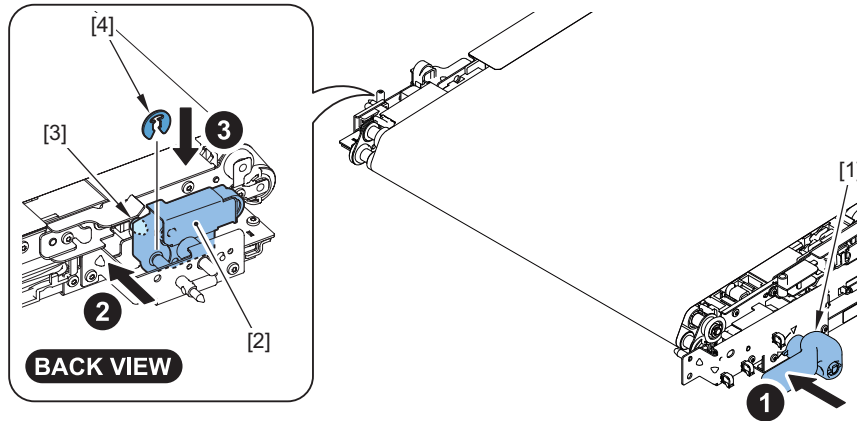
9. Install the pin [1] on the rear side.

- 1 Screw [2]



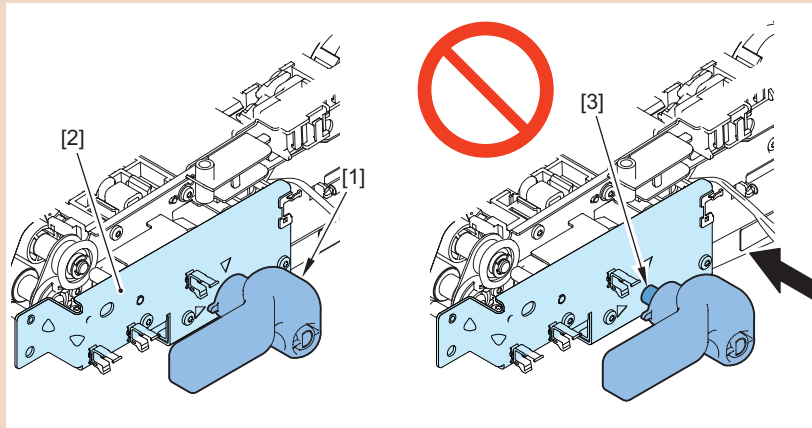
10. Press the ITB Pressure Release Lever [1] and install the Bush Slider [2] to the boss [3].

- 1 E-ring [4]



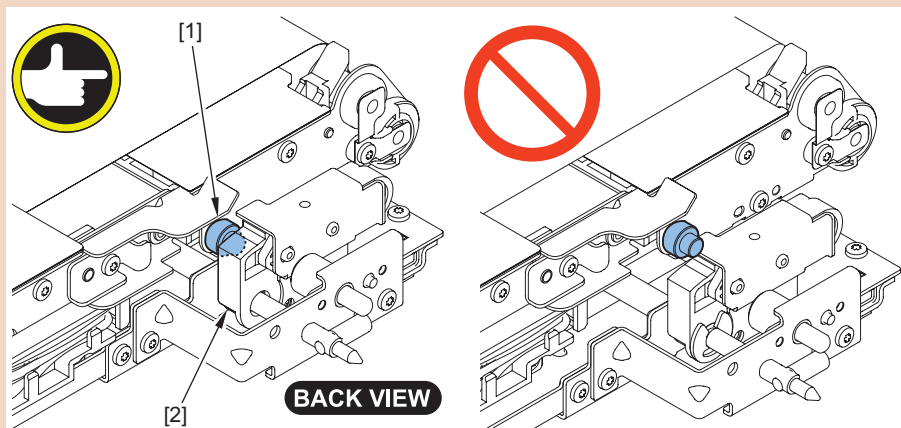
CAUTION:

Be sure that there is no gap between the ITB Pressure Release Lever [1] and the plate [2].



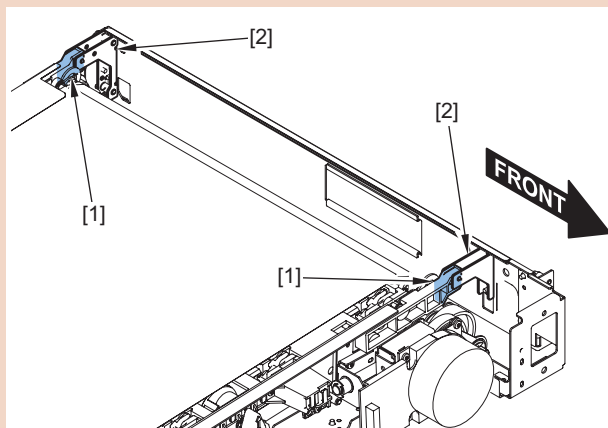
CAUTION:

Be sure to check that the shaft [1] is attached to the Fixation Member [2].

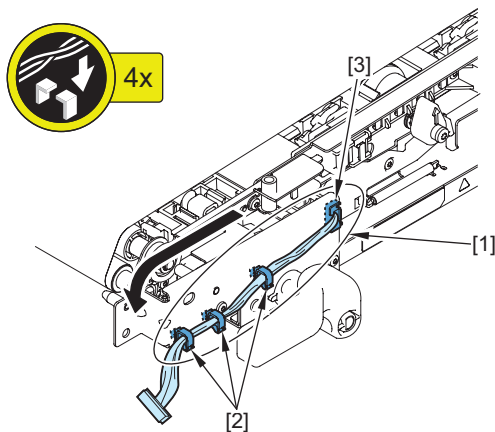


CAUTION:

Be sure to check that the hooks [1] are hooked to the plates [2].

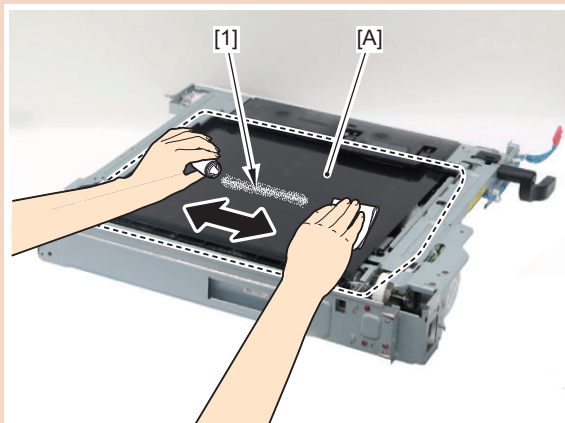
**11. Install the harness [1].**

- 3 Wire Saddles [2]
- 1 Edge Saddle [3]

**12. Turn over the ITB Unit.**

13. Install the ITB Cleaning Unit.**CAUTION:**

- When replacing the ITB with a new one, install the ITB Cleaning Unit to the ITB Unit and then apply lubricant to the whole area shown in the figure below.



- When applying lubricant, be careful not to scatter it inside the ITB or on the Drive Roller or Secondary Transfer Inner Roller.
- If it scatters inside the ITB or on the Drive Roller or Secondary Transfer Inner Roller, wipe it off using lint-free paper moistened with alcohol while rotating the motor by hand. Be sure to rotate the motor counterclockwise only and be careful not to turn it clockwise.

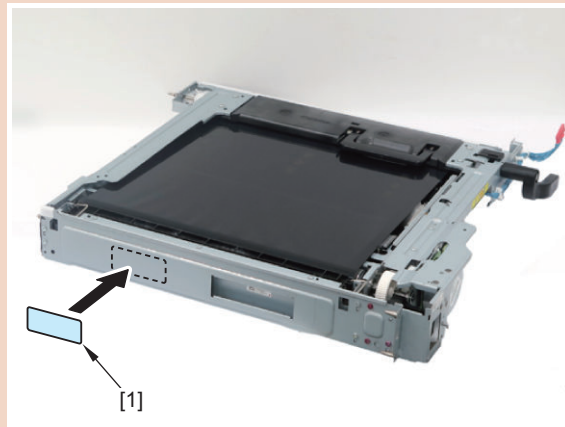
NOTE:

Example when applying Tospearl



CAUTION:

When the ITB has been replaced, be sure to affix the label [1] included in the package as shown in the figure below. If a label is already affixed, affix the label over it.

**CAUTION:**

Clear the parts counter in the following service mode after replacing the ITB.

- COPIER > COUNTER > DRBL-1 > TR-BLT

CAUTION:

Actions after Replacement: [“Actions after Parts Replacement”](#) on page 478

● Removing the Primary Transfer Roller (Bk)

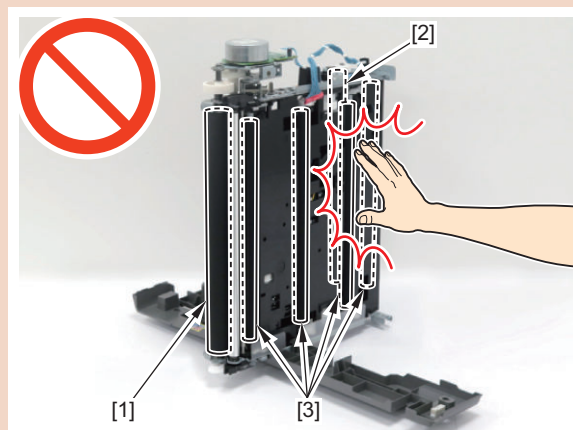
■ Preparation

1. Removing the ITB Unit [“Removing the ITB Unit”](#) on page 303
2. Removing the ITB Cleaning Unit [“Removing the ITB Cleaning Unit”](#) on page 309
3. Removing the ITB [“Removing the ITB”](#) on page 317

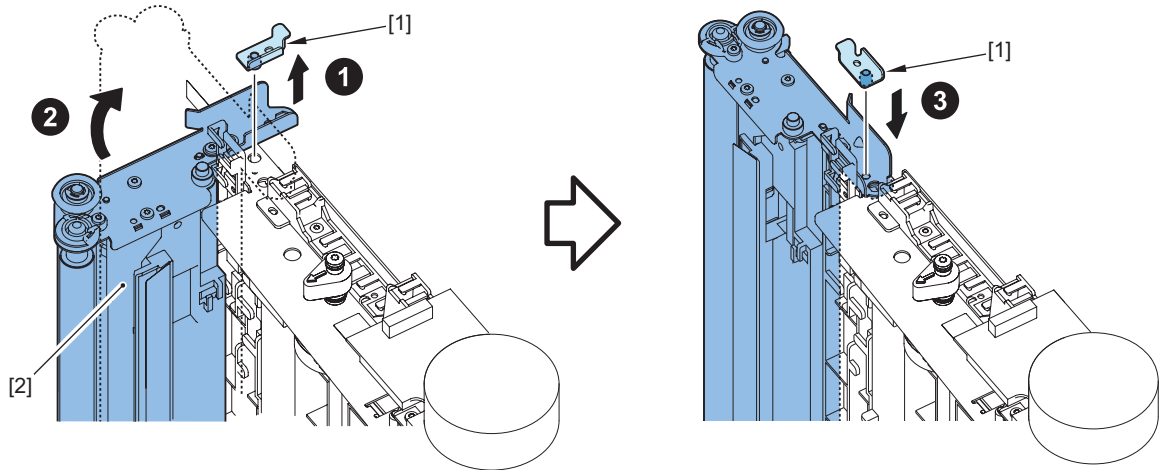
■ Procedure

CAUTION:

Do not touch the surface of the Drive Roller [1], Secondary Transfer Inner Roller [2] and Primary Transfer Roller [3]; otherwise, it can cause an image failure.

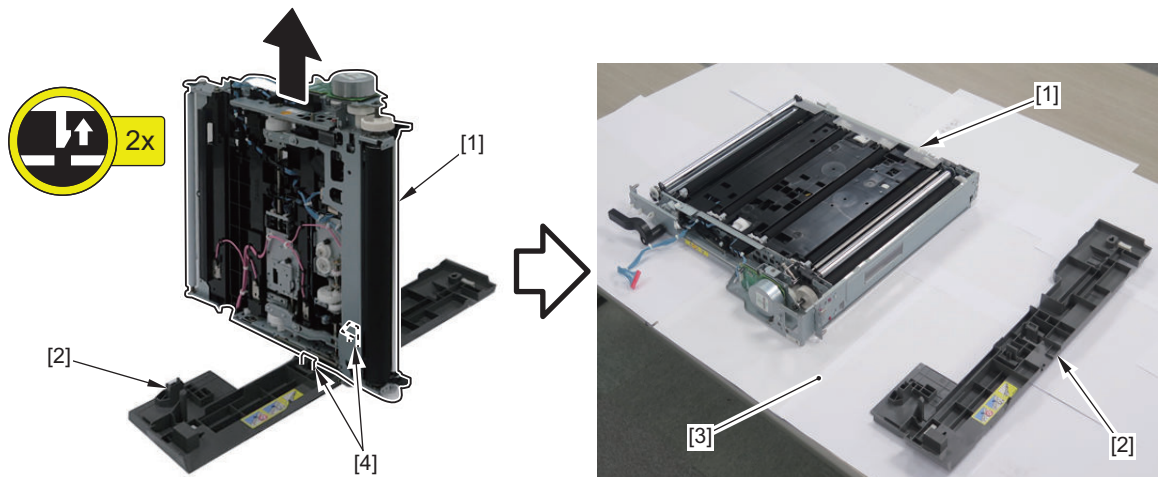


1. Pull out the pin [1] and straighten the Secondary Transfer Inner Roller Unit [2].
2. Install the pin [1] removed in step 1 back into place.



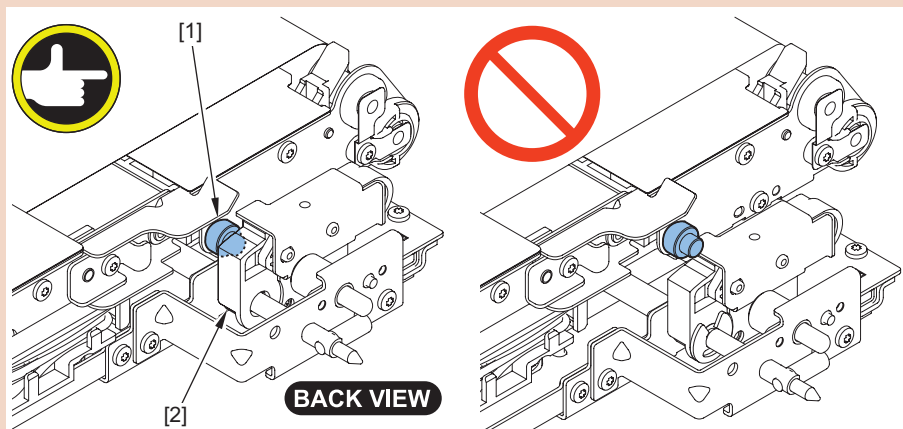
3. Remove the ITB Unit [1] from the ITB Cover [2], install it to the plate (outer frame) and place it on the paper [3] with the roller side facing up.

- 2 Claws [4]

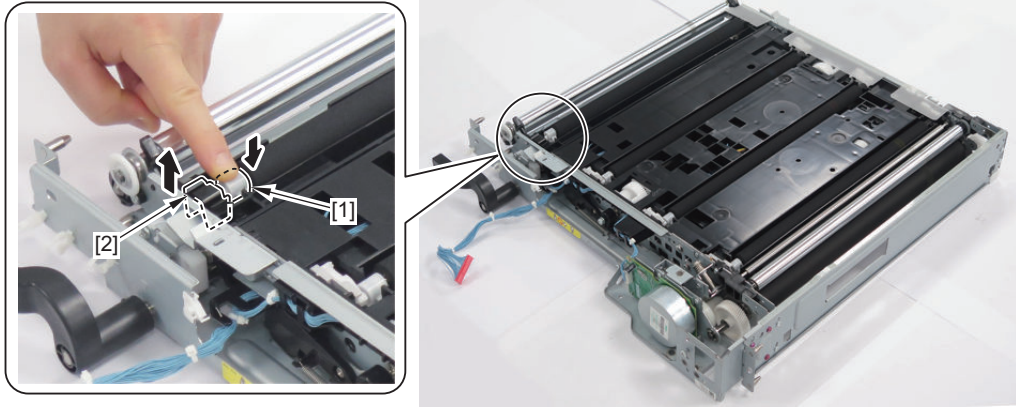


CAUTION:

Be sure to check that the shaft [1] is attached to the Fixation Member [2].

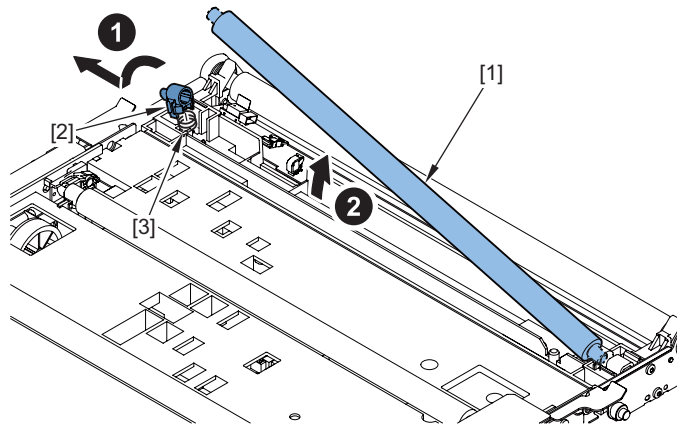


4. While holding the Bushing [1] on the front side, remove the Stopper [2] by pinching it with fingers.



5. Remove the Primary Transfer Roller (Bk) [1].

- 1 Shaft Support (Front) [2]
- 1 Spring [3]

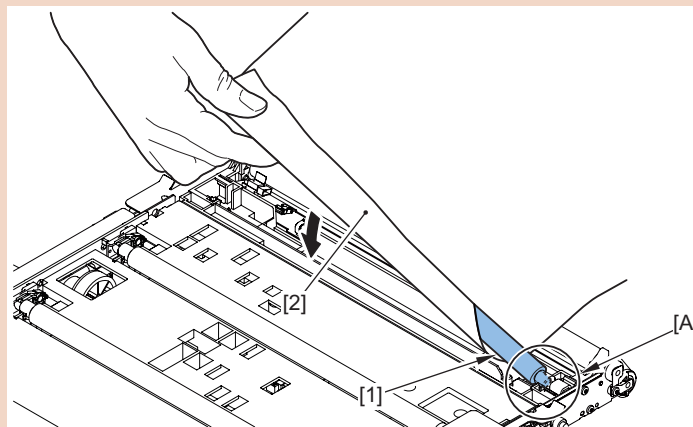


NOTE:

There is no specified direction for the installation of the Primary Transfer Roller.



CAUTION:

- Be sure to wrap it in paper [2] as shown in the figure below to avoid touching the surface of the Primary Transfer Roller [1].
- Be sure not to touch the surface of the Primary Transfer Roller [1].
- Grease is applied on the shaft [A] of the Primary Transfer Roller. If you have touched the grease, be careful not to put it to other parts.



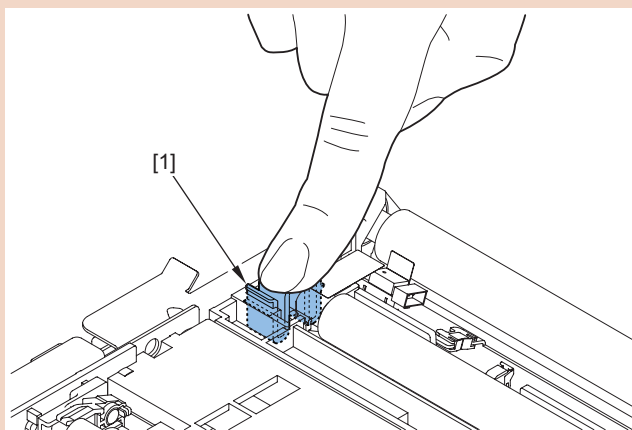
CAUTION:

If the springs for the Primary Transfer Rollers of different colors (Bk/C/M/Y) are mixed, refer to the table shown below.

Name	Configuration	Characteristics	Quantity
Spring For Bk		Shorter than other springs. The end of the spring is bent.	2 pcs
Spring For CMY		Longer than the spring of Bk.	6 pcs

CAUTION:

After installing the Primary Transfer Roller, hold down the Stopper [1] lightly with fingers to check that the claw is fitted properly.

**CAUTION:**

Clear the parts counter in the following service mode after replacing the Primary Transfer Roller (Bk).

- COPIER > COUNTER > DRBL-1 > TR-ROLK

CAUTION:

Actions after Replacement: [“Adjustment after installing ITB Unit” on page 478](#)

Removing the Primary Transfer Roller (C, M, Y)

■ Preparation

1. Removing the ITB Unit (Reference: [“Removing the ITB Unit” on page 303](#))
2. Removing the ITB Cleaning Unit ([“Removing the ITB Cleaning Unit” on page 309](#))
3. Removing the ITB ([“Removing the ITB” on page 317](#))

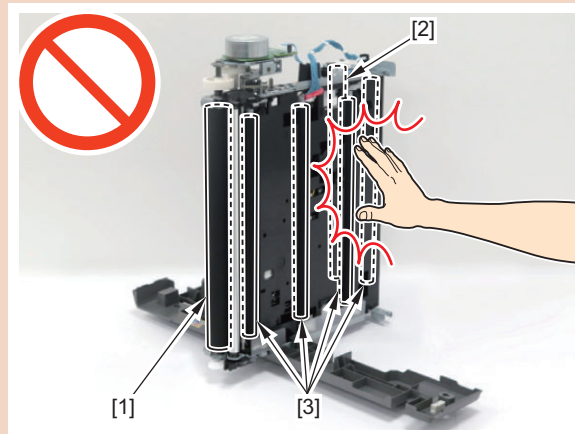
■ Procedure

NOTE:

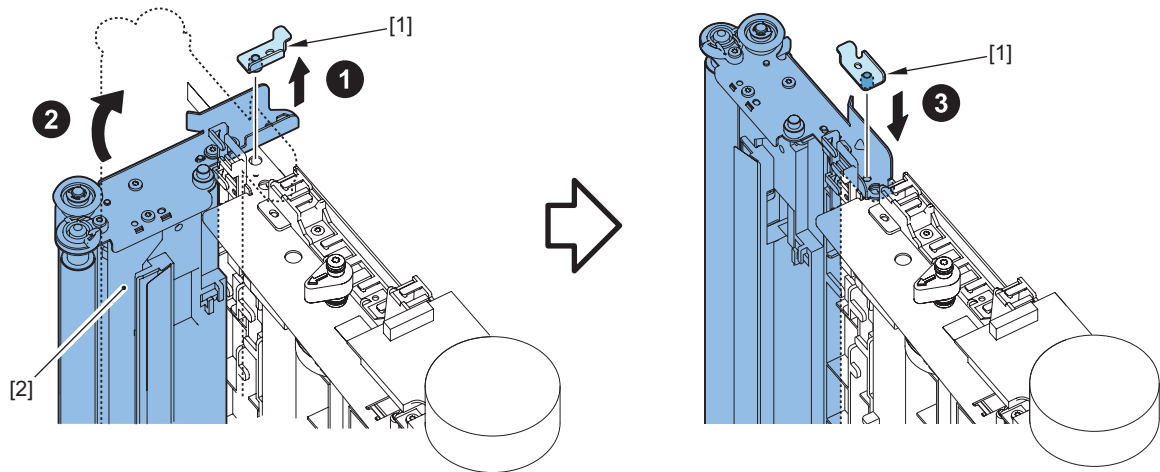
In this procedure, the procedure for the Primary Transfer Roller (C) is described. Perform the same procedure for (M, Y).

CAUTION:

Do not touch the surface of the Drive Roller [1], Secondary Transfer Inner Roller [2] and Primary Transfer Roller [3]; otherwise, it can cause an image failure.

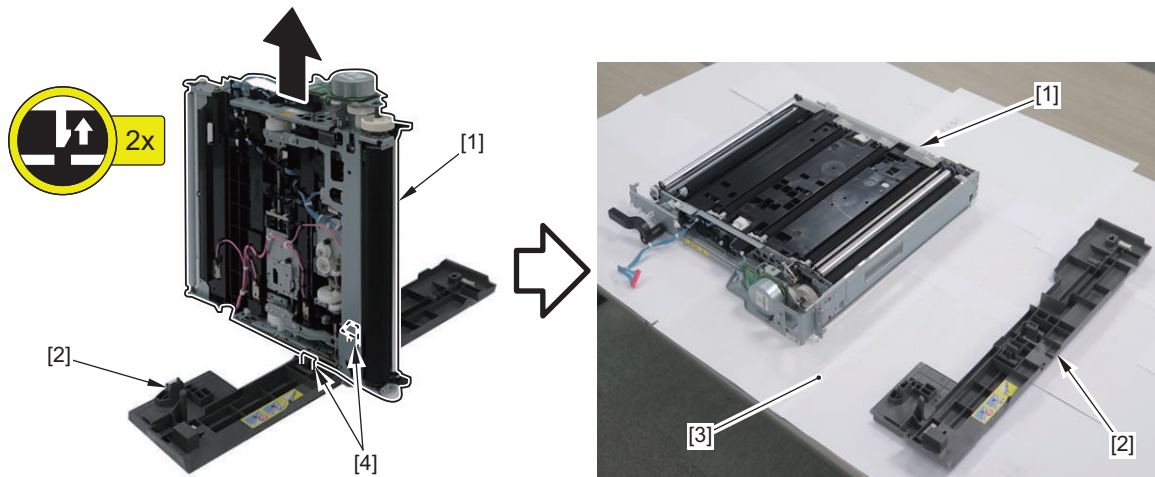


1. Pull out the pin [1] and straighten the Secondary Transfer Inner Roller Unit [2].
2. Install the pin removed in step 1 back into place.



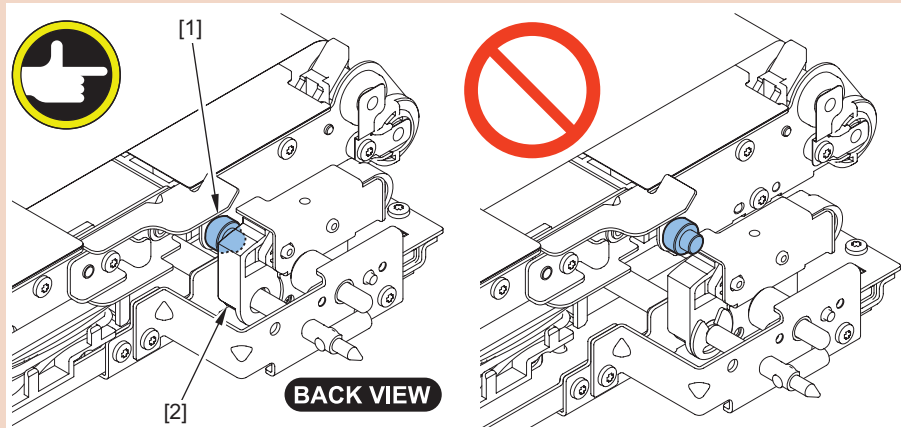
3. Remove the ITB Unit [1] from the ITB Cover [2], install it to the plate (outer frame) and place it on the paper [3] with the roller side facing up.

- 2 Claws [4]

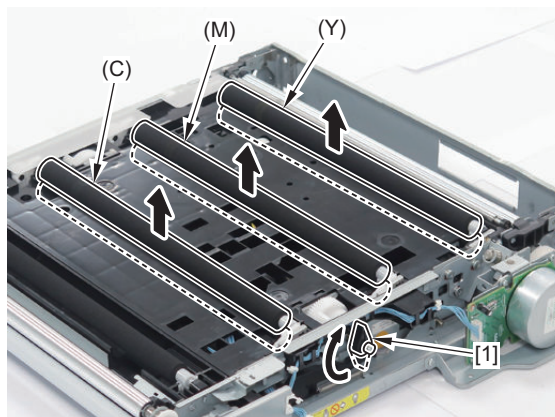


CAUTION:

Be sure to check that the shaft [1] is attached to the Fixation Member [2].



4. Turn the ITB Sub Pressure Release Lever [1] to raise the Primary Transfer Roller (C, M, Y).



5. While holding down the Shaft Support (Front) [1], remove the Engagement/Disengagement Arm by pinching it with your fingers [2].

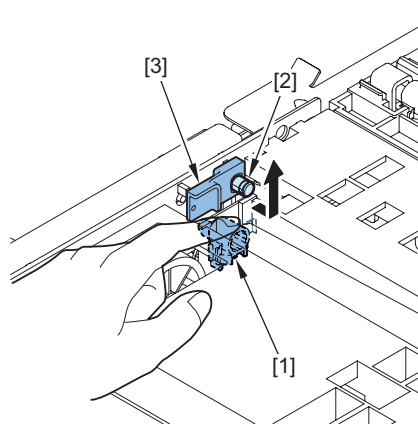


CAUTION:

If the Engagement/Disengagement Arms for the Primary Transfer Rollers of different colors (Y and C/M) are mixed, refer to the table shown below.

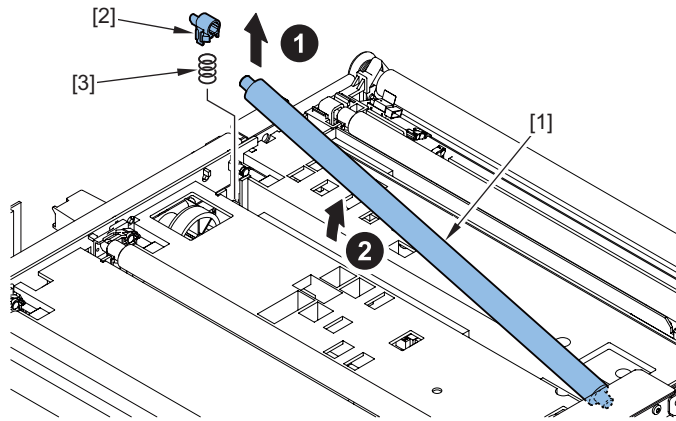
Name	Characteristics	Remarks
Engagement/Disengagement Arm For Y	Black color for both the front and rear sides	For this machine only
Engagement/Disengagement Arm For C/M	White color for both the front and rear sides	

6. While holding the Shaft Support (Front) [1], remove the stopper [3] from the boss [2].



7. Remove the Primary Transfer Roller (C) [1].

- 1 Shaft Support (Front) [2]
- 1 Spring [3]

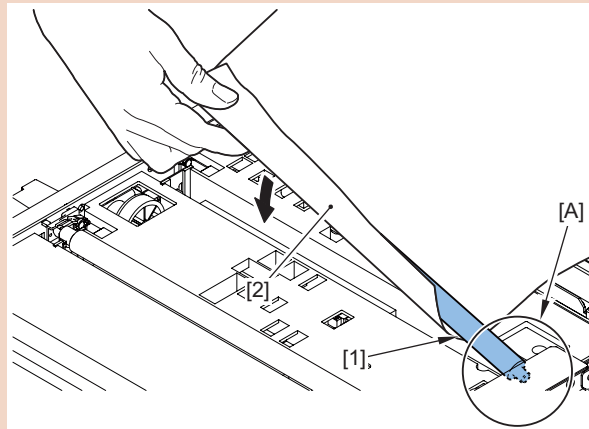


NOTE:

There is no specified direction for the installation of the Primary Transfer Roller.



CAUTION:

- Be sure to wrap it in paper [2] as shown in the figure below to avoid touching the surface of the Primary Transfer Roller [1].
- Be sure not to touch the surface of the Primary Transfer Roller.
- Grease is applied on the shaft [A] of the Primary Transfer Roller. If you have touched the grease, be careful not to put it to other parts.



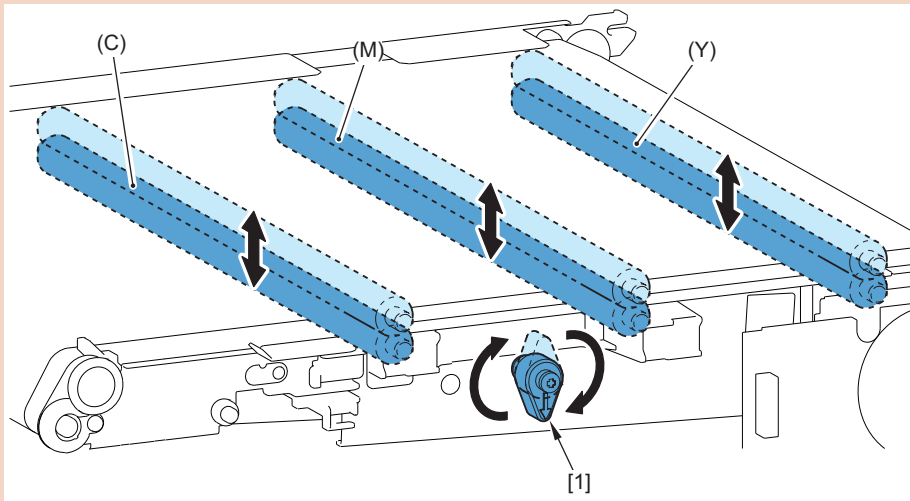
CAUTION:

If the springs for the Primary Transfer Rollers of different colors (Bk/C/M/Y) are mixed, refer to the table shown below.

Name	Configuration	Characteristics	Quantity
Spring For Bk		Shorter than other springs. The end of the spring is bent.	2 pcs
Spring For CMY		Longer than the spring of Bk.	6 pcs

CAUTION:

- After installing the Primary Transfer Roller (C, M, Y), turn the ITB Sub Pressure Release Lever [1] to check that the Primary Transfer Roller (C, M, Y) moves up and down.
- After performing the check, lower the Primary Transfer Roller (C, M, Y).

**CAUTION:**

Clear the parts counter in the following service mode after replacing the Primary Transfer Roller (C, M, Y).

- COPIER > COUNTER > DRBL-1 > TR-ROLC

CAUTION:

Actions after Replacement: [“Adjustment after installing ITB Unit” on page 478](#)

Removing the Secondary Transfer Inner Roller

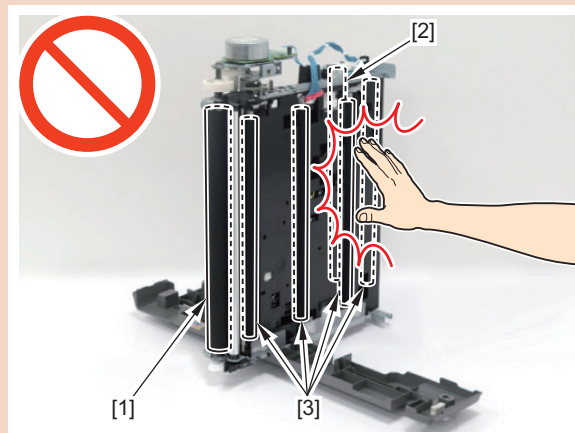
■ Preparation

1. Removing the ITB Unit [“Removing the ITB Unit” on page 303](#)
2. Removing the ITB Cleaning Unit [“Removing the ITB Cleaning Unit” on page 309](#)
3. Removing the ITB [“Removing the ITB” on page 317](#)

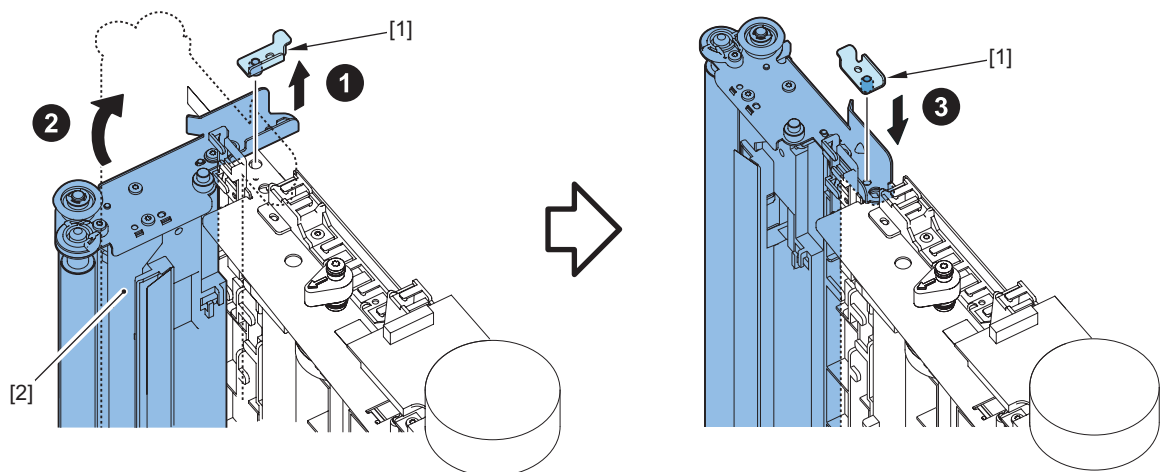
■ Procedure

CAUTION:

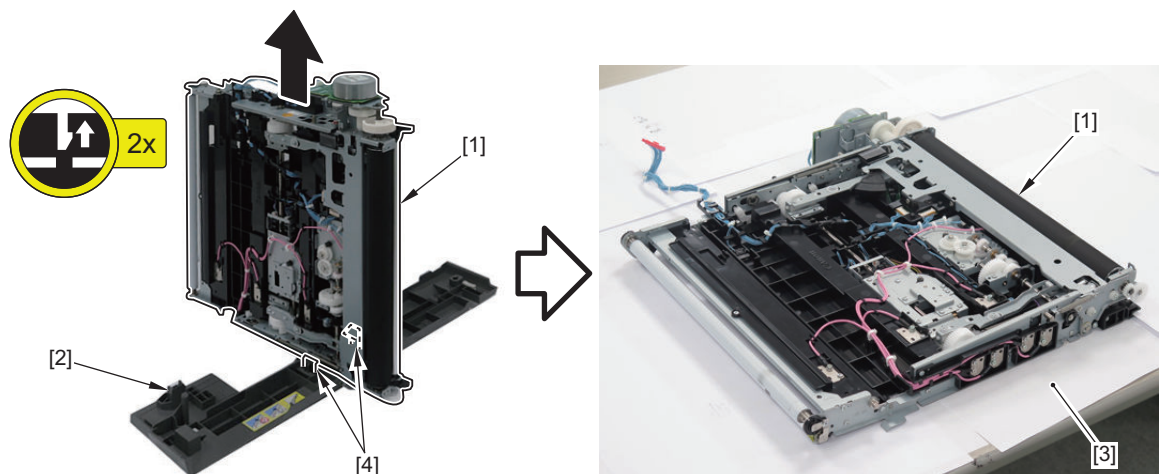
Do not touch the surface of the Drive Roller [1], Secondary Transfer Inner Roller [2] and Primary Transfer Roller [3]; otherwise, it can cause an image failure.



1. Pull out the pin [1] and straighten the Secondary Transfer Inner Roller Unit [2].
2. Install the pin removed in step 1 back into place.

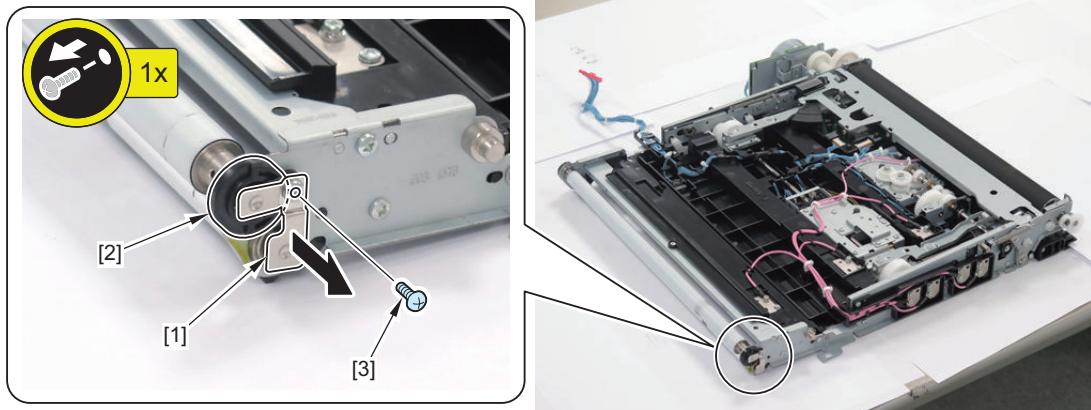


3. Remove the ITB Unit [1] from the ITB Cover [2], and place it on the paper [3] with the roller side facing up.
 - 2 Claws [4]

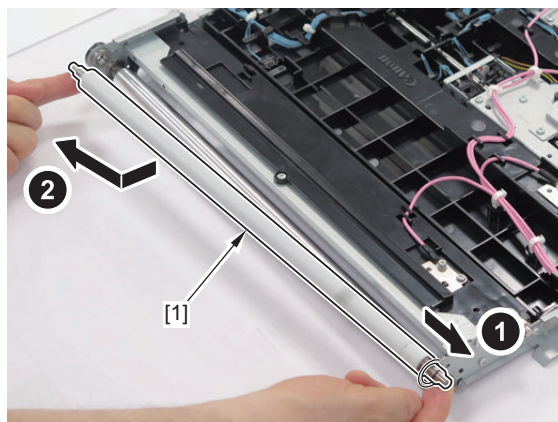


4. Remove the Grounding Plate [1] and the Secondary Transfer Shaft Support Holder [2].

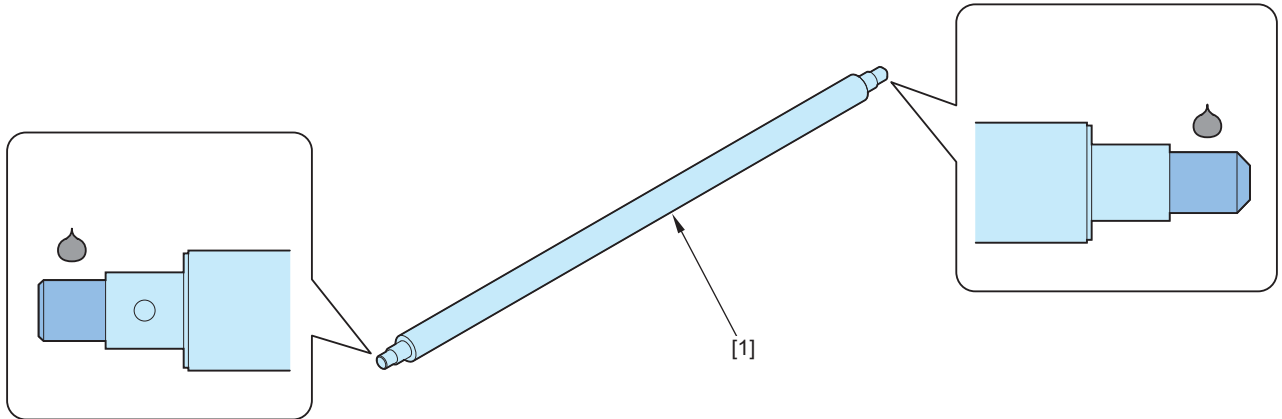
- 1 Screw [3]



5. Remove the Secondary Transfer Inner Roller [1].

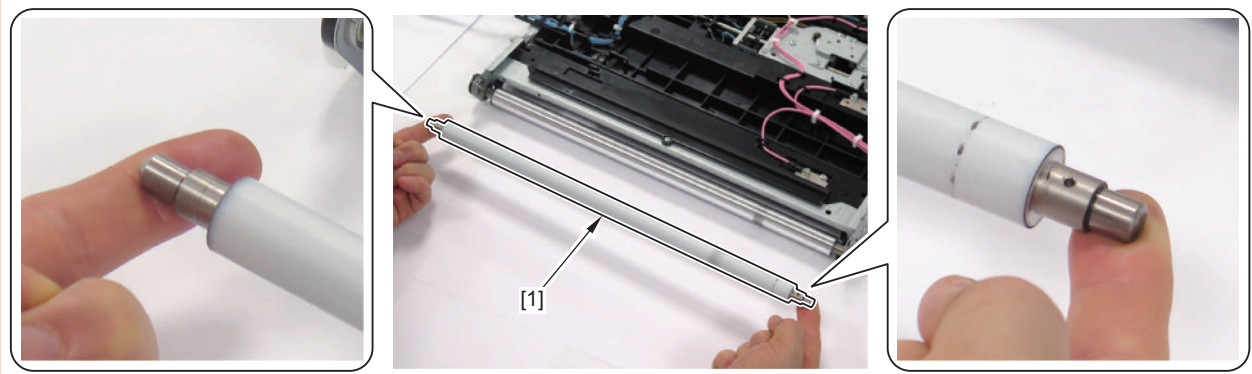


6. Apply grease to both ends of the Secondary Transfer Inner Roller [1] by spreading a rice-grain sized grease (FY9-6006: Super Lubu) in the circumferential direction of the shaft.



CAUTION:

Be sure to install the Secondary Transfer Inner Roller [1] in the correct direction.



CAUTION:

Clear the parts counter in the following service mode after replacing the Secondary Transfer Inner Roller.

- COPIER > COUNTER > DRBL-1 > 2TR-INRL

CAUTION:

Actions after Replacement: [“Actions after Parts Replacement”](#) on page 478

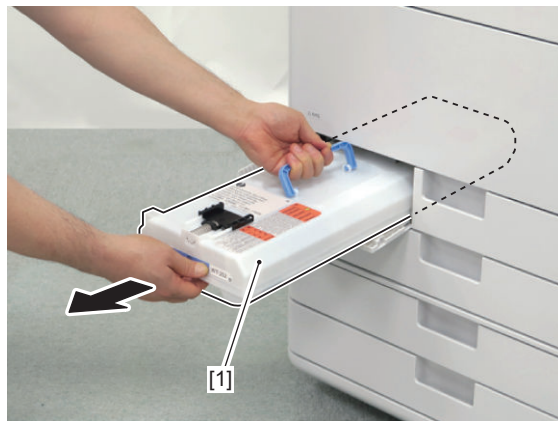
● Removing the Waste Toner Container

■ Procedure

1. Open the Waste Toner Container Cover [1].



2. Remove the Waste Toner Container [1].



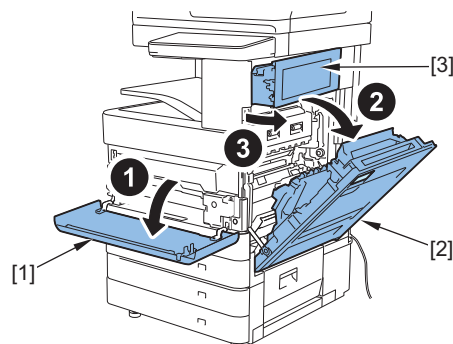
CAUTION:

Do not tilt the Waste Toner Container.
(To prevent false recognition of the Waste Toner Sensor.)

● Pulling out the Process Unit

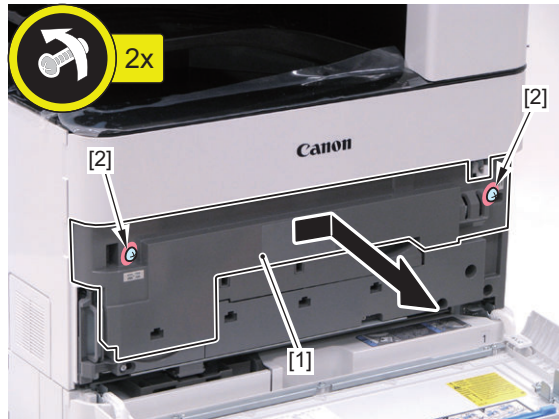
■ Preparation

1. Open the Front Cover [1], Right Lower Cover [2] and Right Upper Cover [3].



2. Removing the ITB Cover [1]

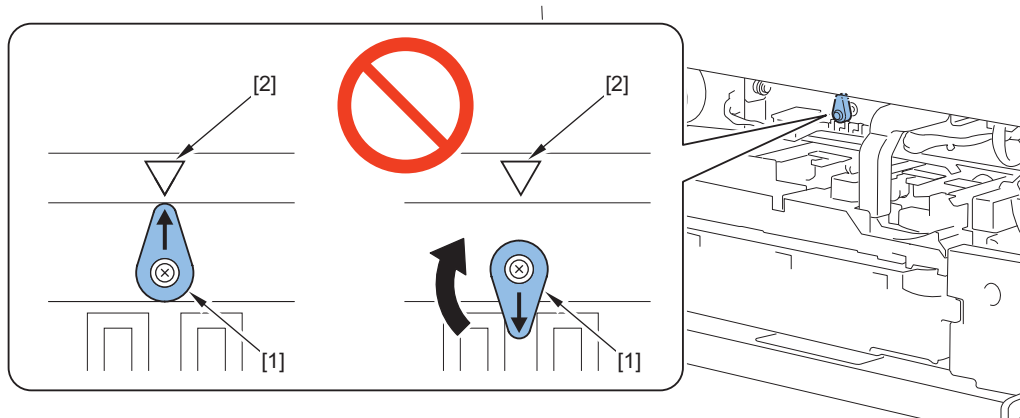
- 2 Screws [2] (to loosen)

**CAUTION:**

- When pulling out the Process Unit, be sure that the ITB Unit is not pulled out because it will make the clearance smaller.
- Do not touch the surface of the ITB.
- When installing the ITB Cover, be sure to push it to the left. If the pushing is insufficient, the plate is not inserted to the slit of the ITB Cover, which may cause the damage of the sensor.

■ Procedure

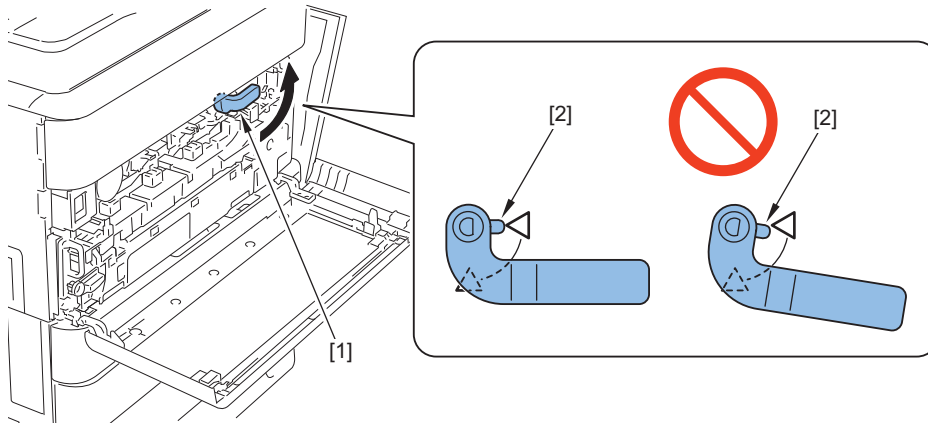
1. Be sure to check that the arrow on the ITB Sub Pressure Release Lever [1] is aligned with the triangle mark [2] on the plate (If not, align the arrow on the lever with the triangle mark on the plate).



- Turn the ITB Pressure Release Lever [1] in the direction of the arrow until the protrusion [2] on the handle is aligned with the triangle mark on the plate to release the pressure.

CAUTION:

When operating the ITB Pressure Release Lever, be sure to check that the Right Lower Cover is opened before the operation.



- Remove the Drum Lock Pin Cover [2].

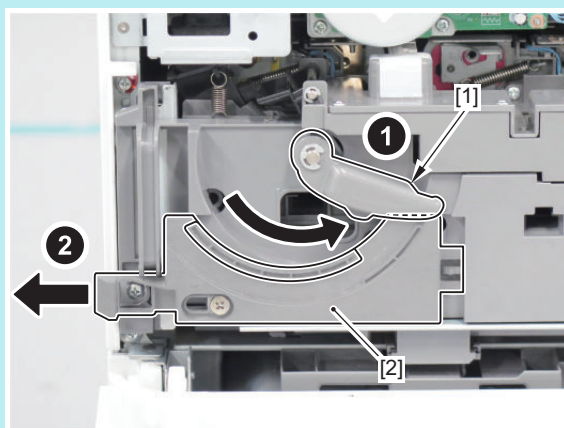
NOTE:

Removing procedure is different by shape of Drum Lock Pin Cover.

Shape



- Turn the Process Unit Shutter Lever [1] and slide the Lock Pin Cover [2] to the left.

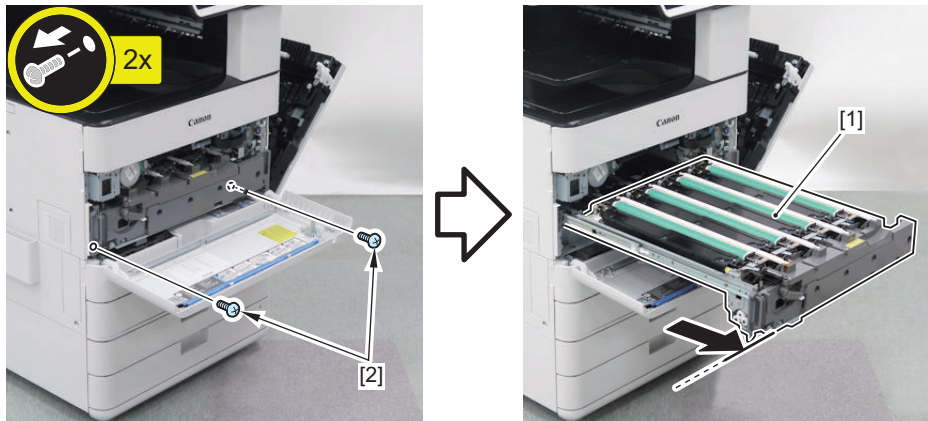


- Pull out the Process Unit [1] until it stops.

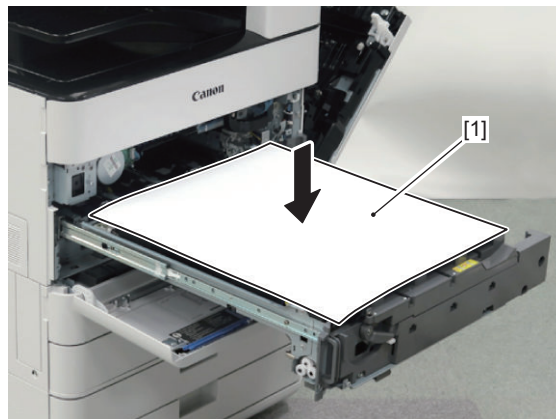
- 2 Screws [2]

CAUTION:

Do not touch the surface of the Drum.



5. Place 5 or more sheets of paper [1] on the Process Unit to block the light to the Drum Unit.



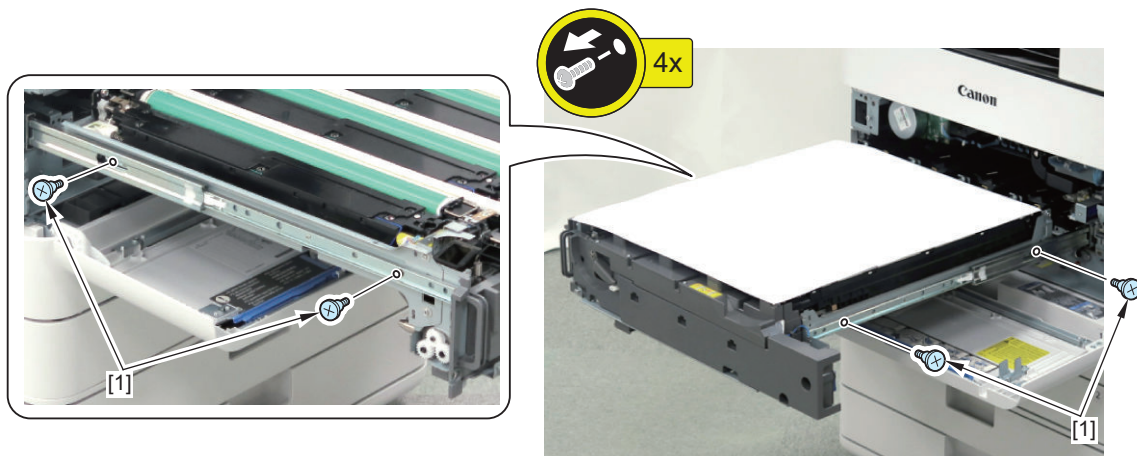
● Removing the Process Unit

■ Preparation

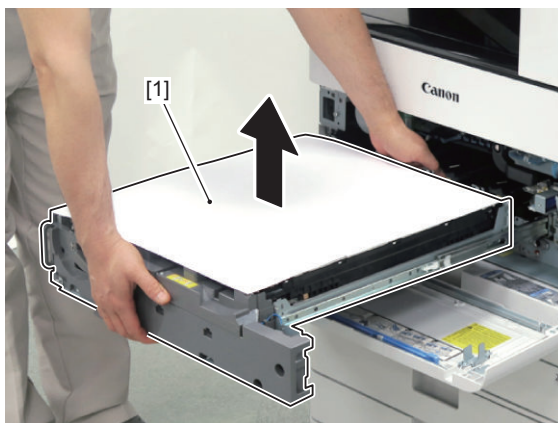
1. Pull out the Process Unit. [“Pulling out the Process Unit” on page 341](#)

■ Procedure

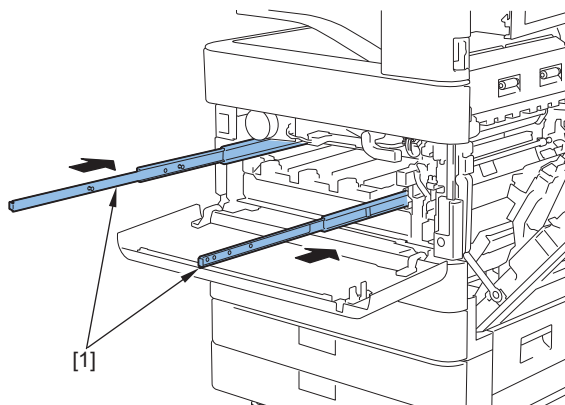
1. Remove the 4 Stepped Screws [4] from the right and left rails.



2. Hold the front and rear of the Process Unit [1] and remove it horizontally.



3. Slide the 2 rails [1] of the Process Unit back into the host machine.

**NOTE:**

When installing the Process Unit, if the Laser Dustproof Shutter is opened and blocks to install the unit, turn ON and then OFF the power. Be sure to check that the Dustproof Shutter is closed before installation.

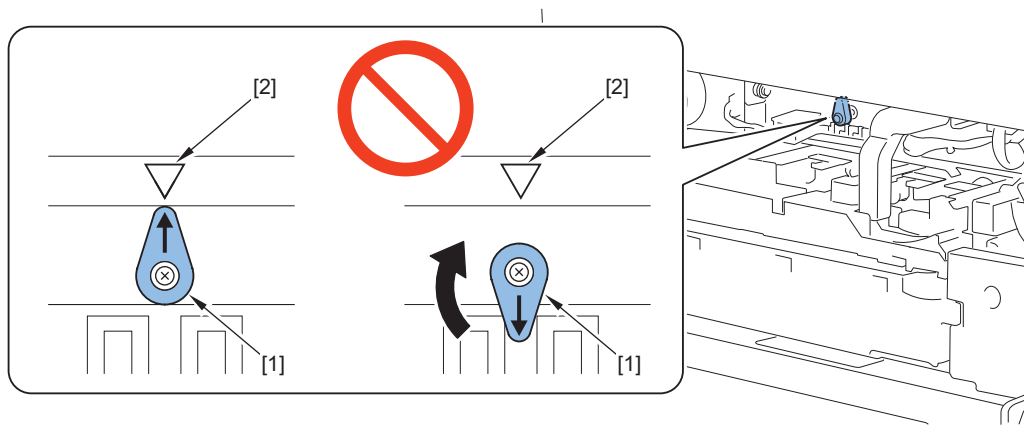
● Installing the Process Unit

■ Preparation

1. Pulling out the Process Unit [“Pulling out the Process Unit” on page 341](#)
2. Removing the Process Unit [“Removing the Process Unit” on page 344](#)

■ Procedure

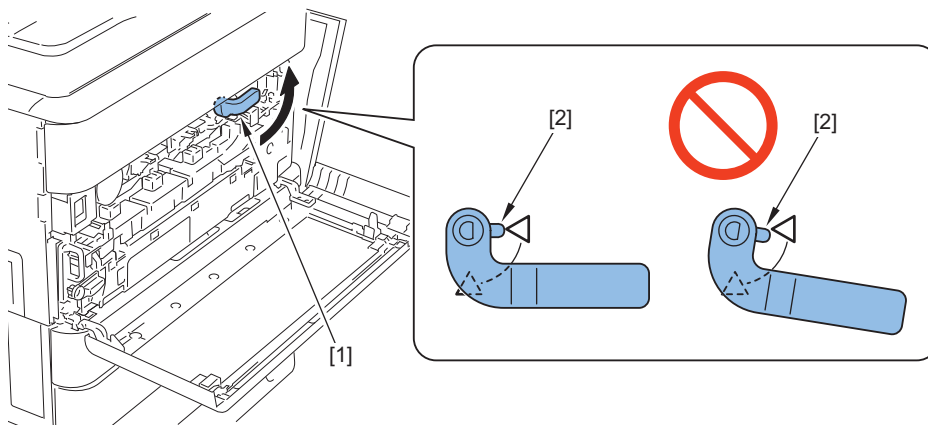
1. Be sure to check that the arrow on the ITB Sub Pressure Release Lever [1] is aligned with the triangle mark [2] on the plate (If not, align the arrow on the lever with the triangle mark on the plate).



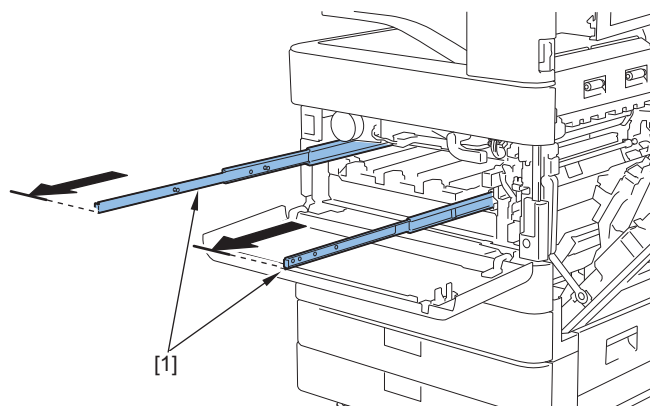
2. Turn the ITB Pressure Release Lever [1] in the direction of the arrow until the protrusion [2] on the handle is aligned with the triangle mark on the plate to release the pressure.

CAUTION:

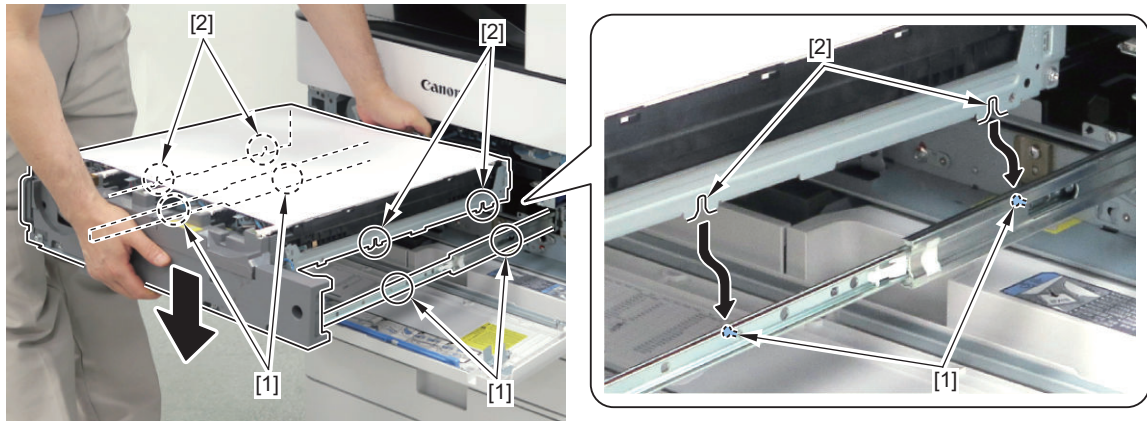
When operating the ITB Pressure Release Lever, be sure to check that the Right Lower Cover is opened before the operation.



3. Slide the 2 rails [1] of the Process Unit out of the host machine.

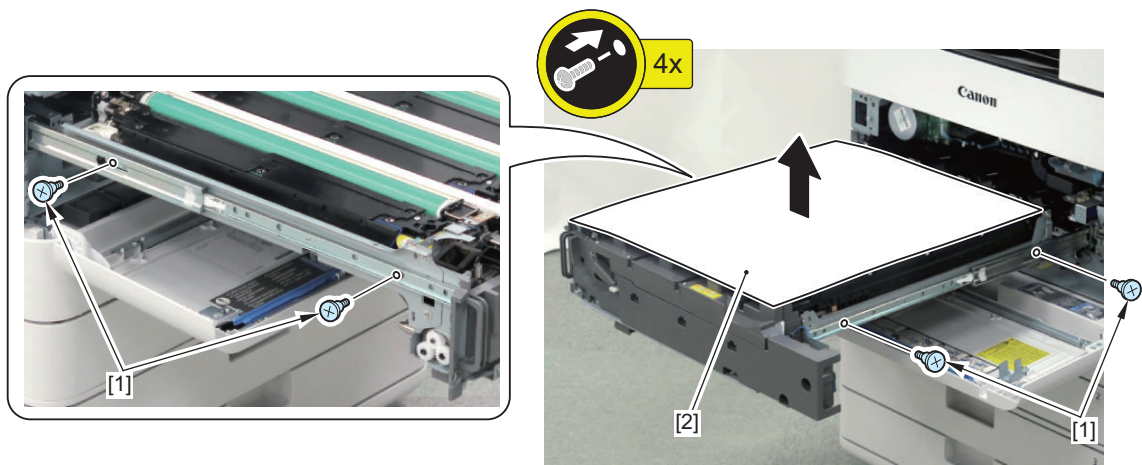


4. Install the Process Unit by aligning the Positioning Pins [1] of the rails with the 4 grooves [2] of the Process Unit.



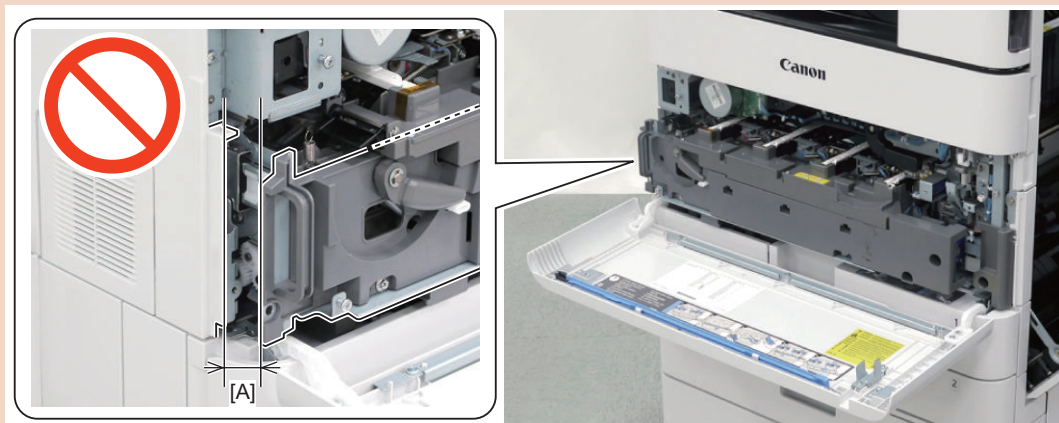
5. Secure the rails on the right and left side and the Process Unit with the 4 Stepped Screws [1].

6. Remove the paper [2] from the Process Unit.

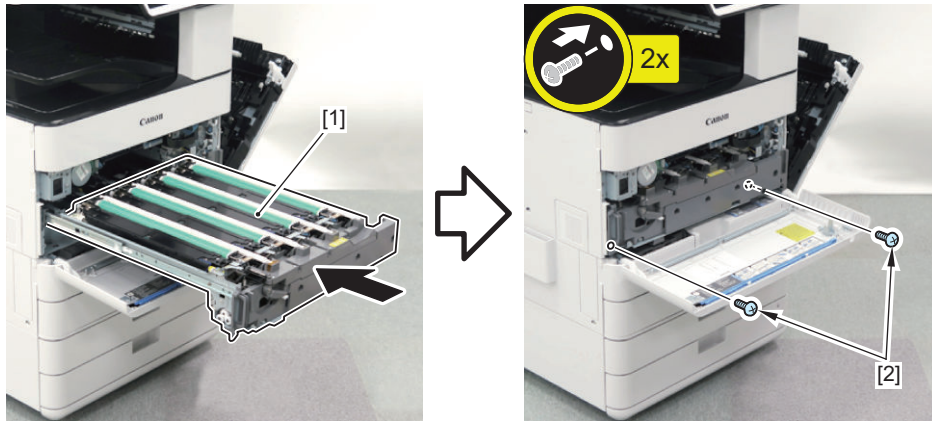


CAUTION:

When securing with the screws, be sure to check that there is no gap [A] between the host machine and the Process Unit.

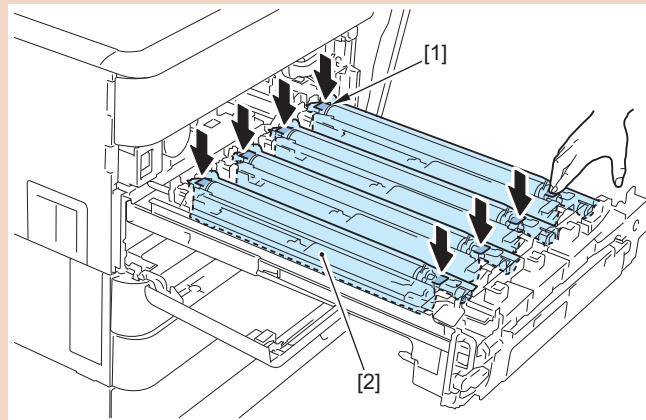


7. Slowly slide the Process Unit [1] back into the host machine, and secure it with the 2 screws [2].



CAUTION:

After closing the Process Unit, press the 8 grips [1] of Drum Units from the top as shown in the figure below. If the Drum Unit [2] is not installed properly, it may cause color displacement.

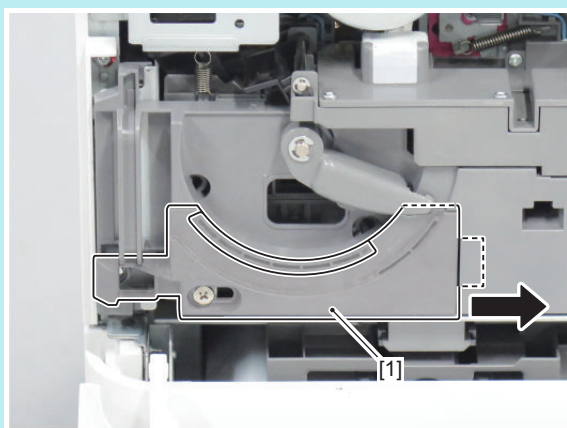
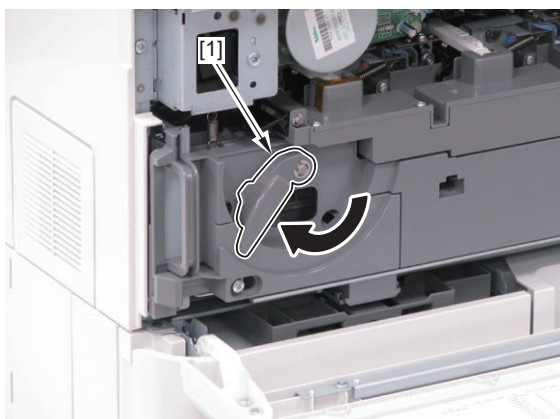


8. Install the Drum Lock Pin Cover [1].**NOTE:**

Installation procedure is different by shape of Drum Lock Pin Cover.

Shape

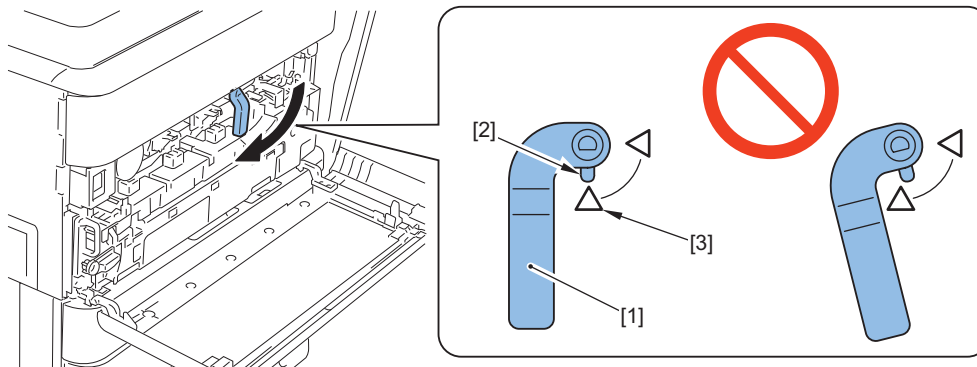
1. Slide the Lock Pin Cover [1] to the Right.

**9. Close the Process Unit Shutter Lever [1].**

10. Turn the ITB Pressure Release Lever in the direction of the arrow to apply pressure.

CAUTION:

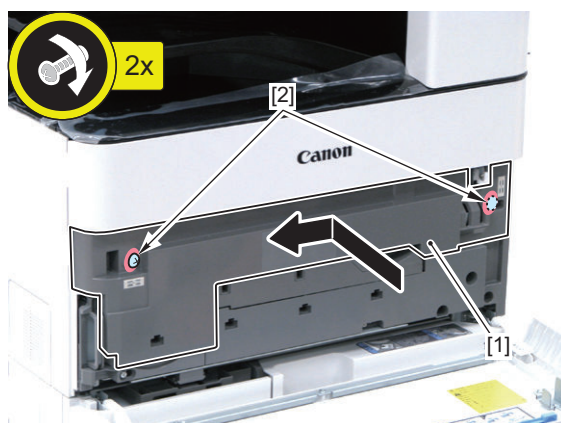
- When operating the ITB Pressure Release Lever, be sure to check that the Right Lower Cover is opened before the operation.
- When applying pressure with the ITB Pressure Release Lever, be sure that the protrusion [2] on the handle [1] is aligned with the triangle mark [3] on the lower side of the plate.



11. Install the ITB Cover [1] and tighten the 2 loosened screws [2].

CAUTION:

When installing the ITB Cover, be sure to push it to the left. If the pushing is insufficient, the plate is not inserted to the slit of the ITB Cover, which may cause the damage of the sensor.



12. Close the Front Cover.

13. Close the Right Upper Cover.

14. Close the Right Lower Cover.

● Removing the Drum Unit

■ Preparation

1. Pulling out the Process Unit [“Pulling out the Process Unit” on page 341](#)

■ Procedure

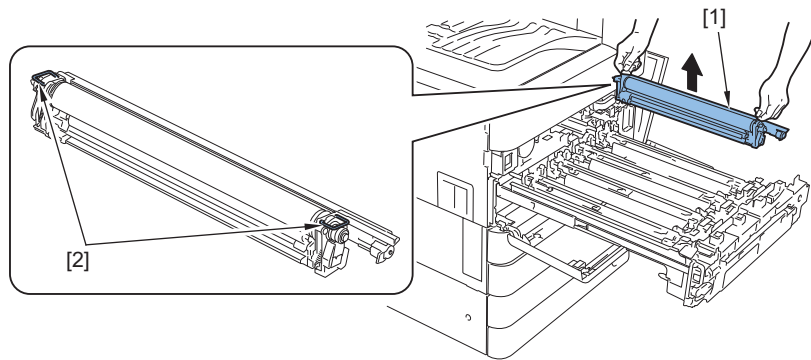
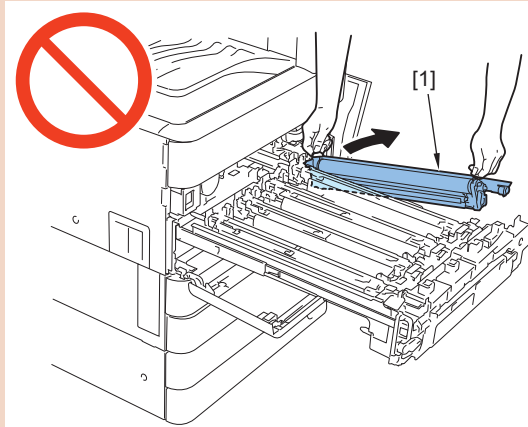
CAUTION:

Do not touch the surface of the Drum.

1. Hold the handles [2] of the Drum Unit [1] with both hands, and pull it out vertically.

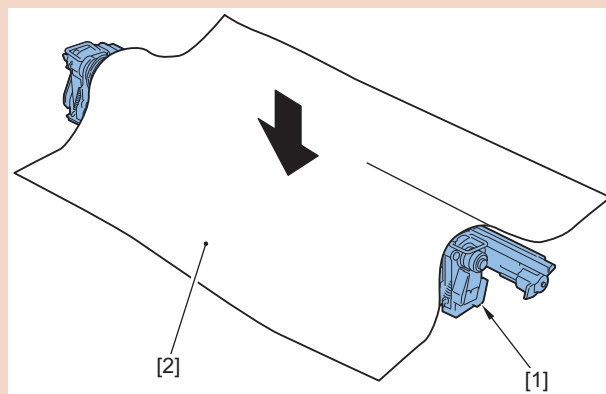
CAUTION:

When removing the Drum Unit [1], do not pull only one of the grips.



CAUTION:

Be sure to cover the removed Drum Unit [1] with 5 or more sheets of paper [2] to block light.



● Installing the Drum Unit

■ Preparation

1. Pulling out the Process Unit“Pulling out the Process Unit” on page 341
2. Removing the Drum Unit“Removing the Drum Unit” on page 350

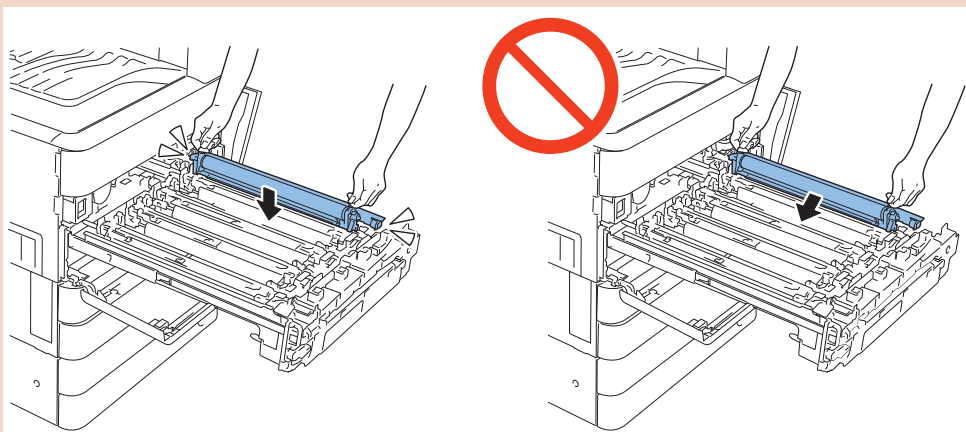
■ Procedure

CAUTION:

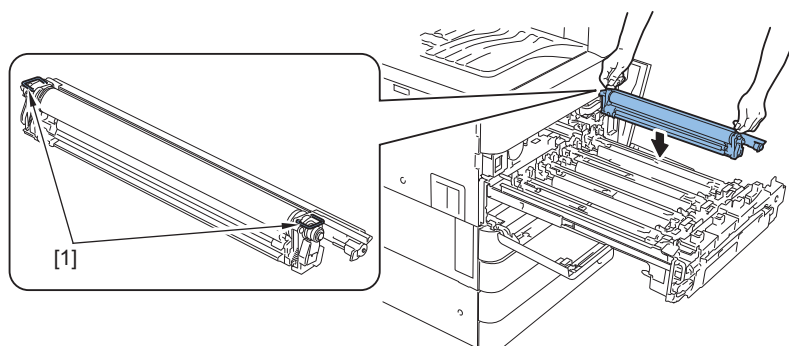
- Do not touch the surface of the Drum.
- Be sure to refer to the following NOTE when installing the Drum at the Bk position.

CAUTION:

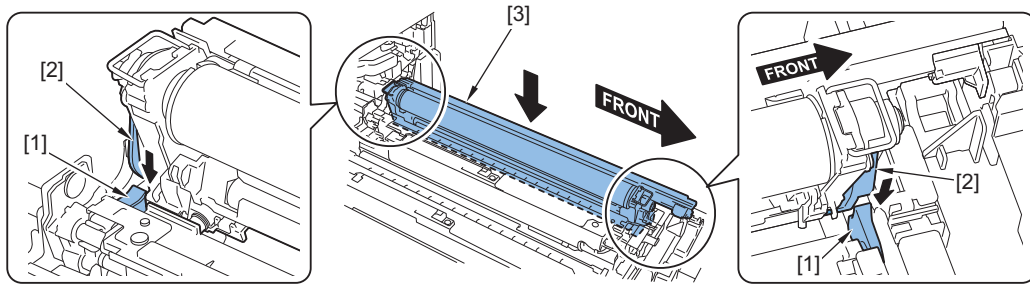
Be sure to install it straight from above. Installing it from an oblique direction may cause damage to the shutter.



1. Hold the grips [1] and install it straight from above.

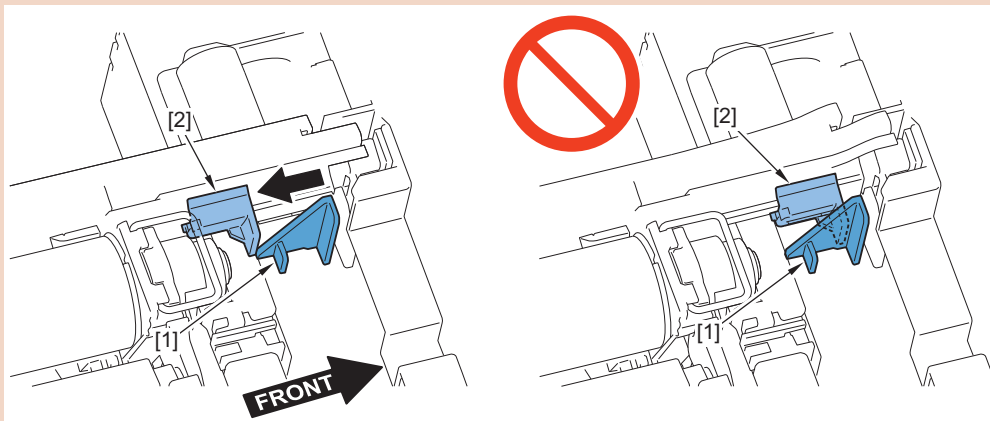


2. Align the guide [1] of the Developing Unit with the guide [2] of the Drum Unit, and install the Drum Unit [3].

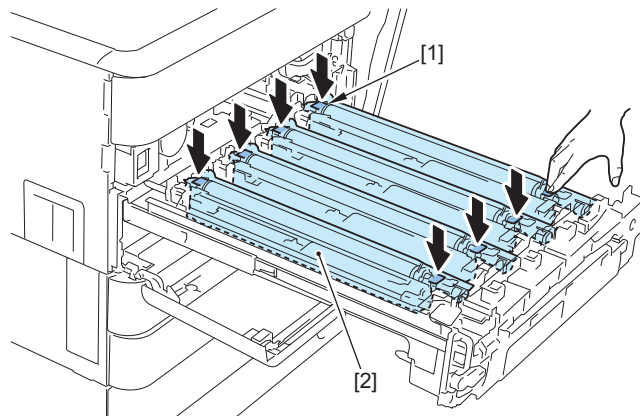


CAUTION:

Be sure to check that the shutter [2] slides along the rail [1] and is located in the correct position as shown in the figure below to prevent the rail [1] from being damaged.



3. Hold down each of the 8 grips [1] lightly with a finger to check that the Drum Units [2] are installed properly.



CAUTION:

Actions after Replacement: [“Actions after Parts Replacement” on page 479](#)

● Removing the Developing Unit

■ Preparation

1. Pulling out the Process Unit [“Pulling out the Process Unit” on page 341](#)
2. Removing the Drum Unit [“Removing the Drum Unit” on page 350](#)

■ Procedure

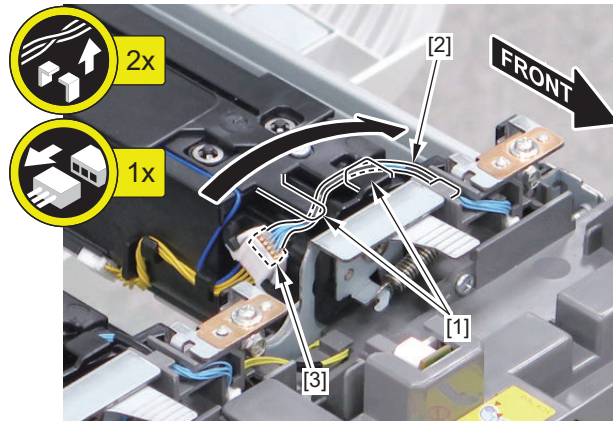
NOTE:

Perform the following procedure to remove the Developing Unit for Bk. Repeat the same procedure to remove the Developing Units for Y, M, and C.

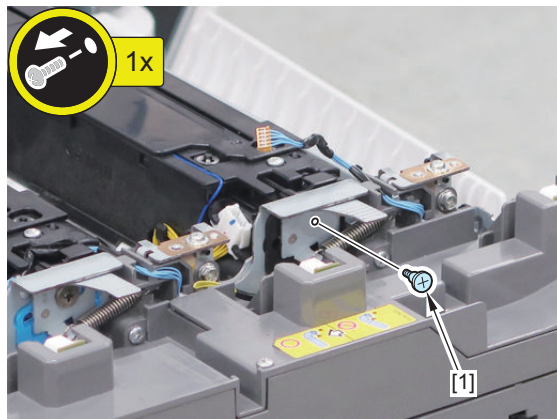
CAUTION:

- Be sure not to touch the Developing Cylinder during installation/removal.

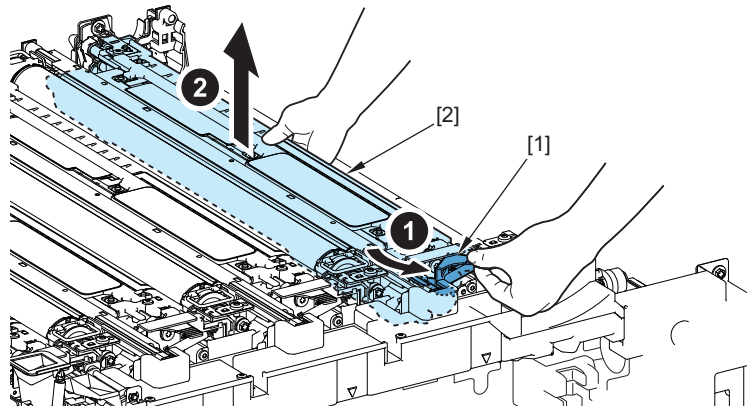
1. Free the harness [2] from the 2 Harness Guides [1], and disconnect the connector [3].



2. Remove the Stepped Screw [1].

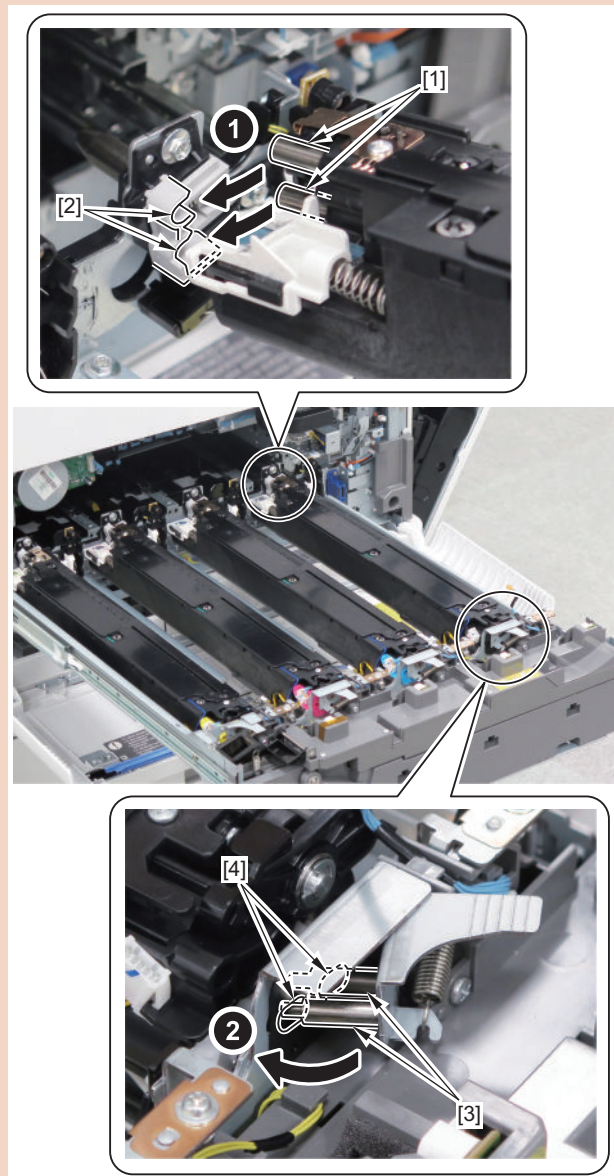


3. Remove the Developing Unit [2] upward while pulling the stopper [1].



CAUTION:

Fit the 2 pins [1] of the Developing Unit into the holes [2] of the Process Unit, and insert the 2 pins [3] of the stopper in the holes [4] of the Developing Unit when assembling.



⚠ CAUTION:

Be careful not to damage the contact point of the drum (on the host machine side) when installing the Developing Unit.

Installing a New Developing Unit

■ Preparation

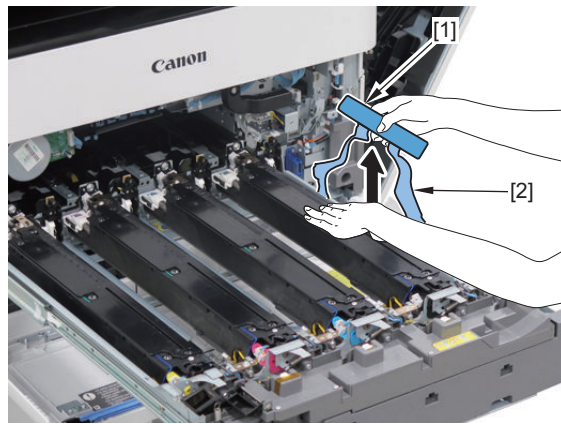
1. Pulling out the Process Unit [“Pulling out the Process Unit” on page 341](#)
2. Removing the Drum Unit [“Removing the Drum Unit” on page 350](#)

■ Procedure

1. Install the Developing Unit to the Process Unit in the reverse order of "Removing the Developing Unit".

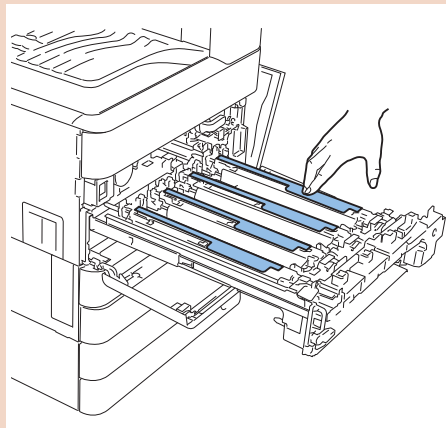
2. Hold down the Developing Unit, hold the grip [1] of the Developing Unit Seal, and pull out the Developing Unit Seal [2] upward.

Repeat this step for each color.



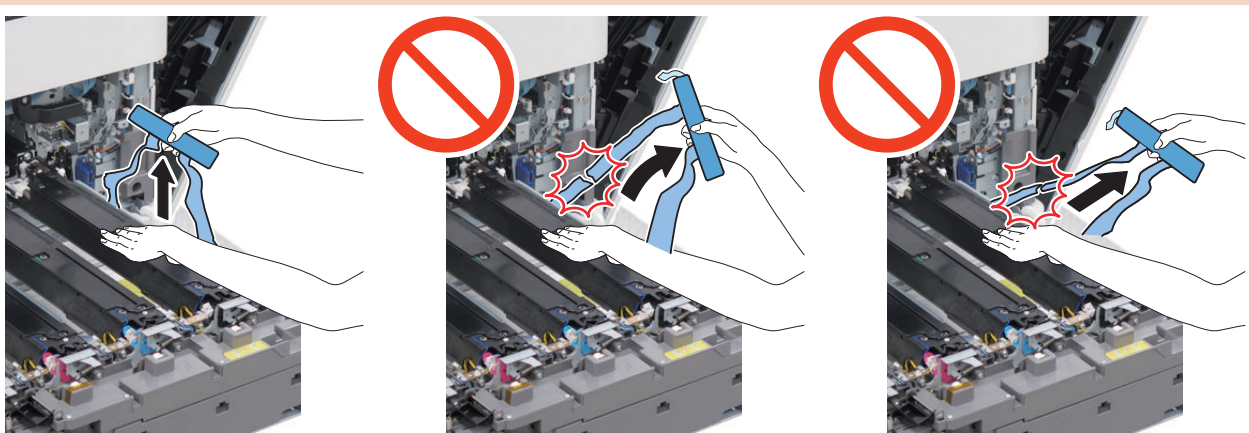
CAUTION:

Be sure to hold down the top of each Developing Unit. If the Developing Unit is held down insufficiently, the cover may get loose when pulling out the seal.



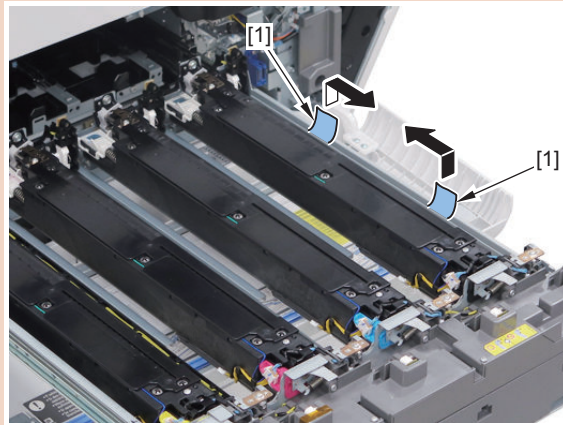
CAUTION:

When removing the Developing Unit Seal, slowly lift it up in the vertical direction. Lifting the Developing Unit Seal in an oblique direction applies stress on the seal, which can cause the seal to tear.

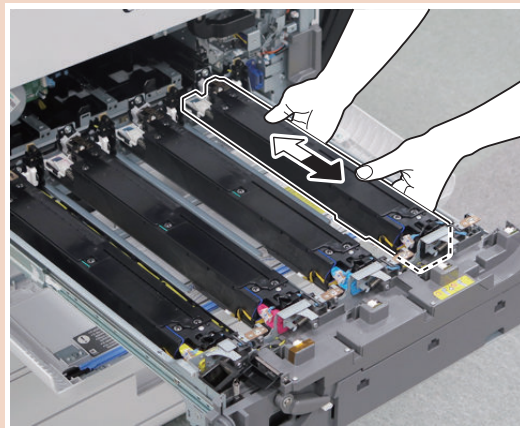


CAUTION:

If the Developing Unit Seal [1] tears by accident, pull out the end of the torn seal in the direction of the arrow. Be sure that the torn seal does not remain inside the Developing Unit.

**CAUTION:**

- To check that the Developing Unit is properly installed, move the Developing Unit toward the front and rear by hand. If it won't move at all, check again that the Developing Unit is properly installed.
- Be sure not to touch the Developing Cylinder during the work.

**⚠ CAUTION:**

Be careful not to damage the contact point of the drum (on the host machine side) when installing the Developing Unit.

3. Follow "Installing the Drum Unit" to install the Drum Unit of each color.

CAUTION:

Actions after Replacement: ["Actions after Parts Replacement" on page 479](#)

Removing the Waste Toner Feed Unit

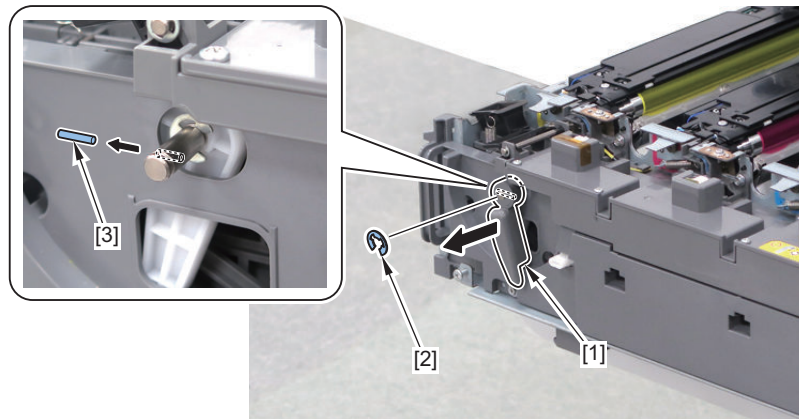
■ Preparation

1. Pulling out the Process Unit ["Pulling out the Process Unit" on page 341](#)
2. Removing the Drum Unit ["Removing the Drum Unit" on page 350](#)

■ Procedure

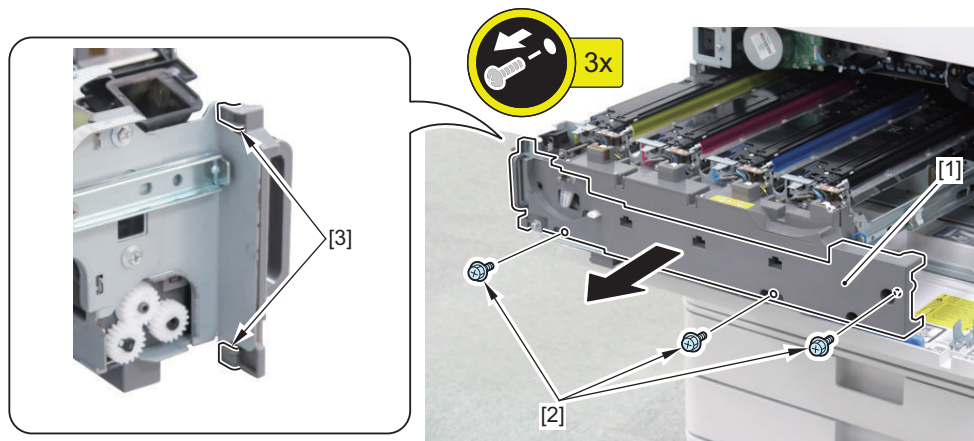
1. Remove the Process Unit Shutter Lever [1].

- 1 E-ring [2]
- 1 Parallel Pin [3]



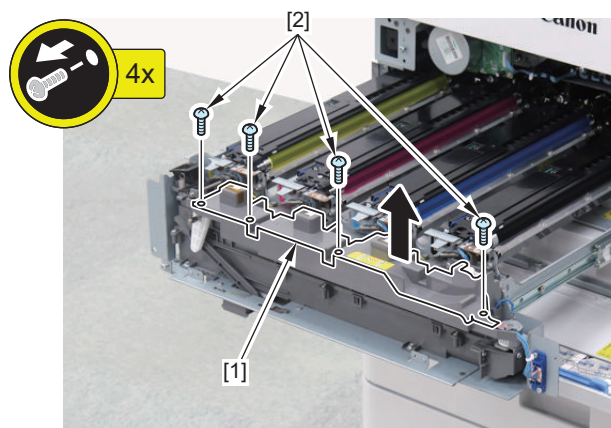
2. Remove the Process Unit Front Cover [1].

- 3 Screws [2]
- 2 Claws [3]



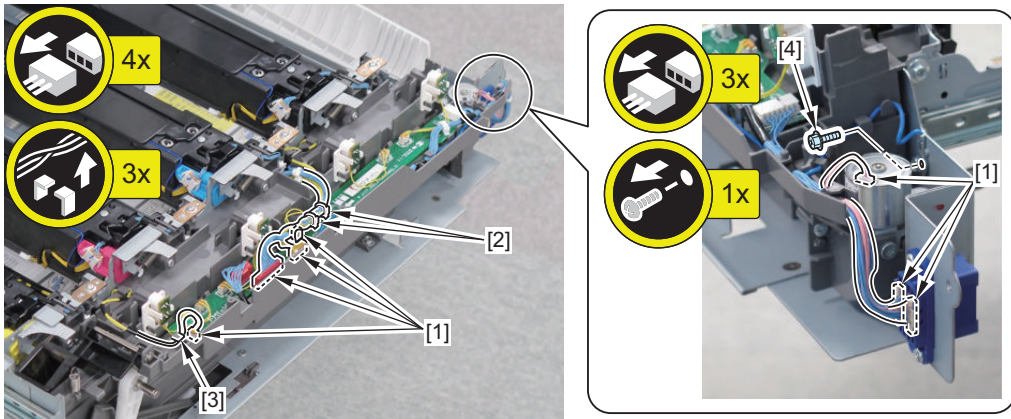
3. Remove the Waste Toner Feed Unit Upper Cover [1].

- 4 Screws [2]



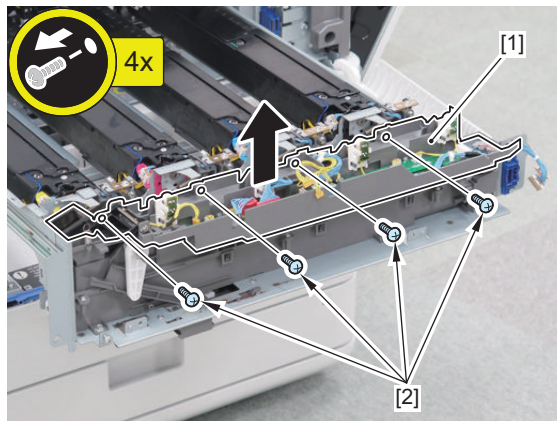
4. Disconnect the 7 connectors from the PCB.

- 7 Connectors [1]
- 2 Wire Saddles [2]
- 1 Harness Guide [3]



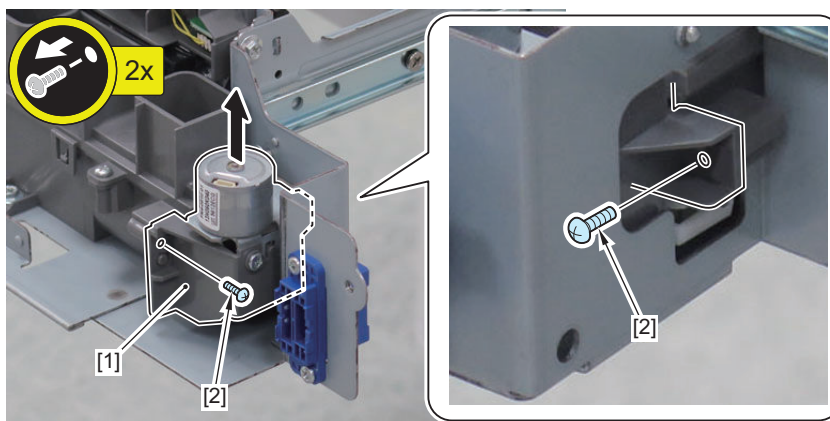
5. Remove the Frame Front Holder [1].

- 4 Screws [2]



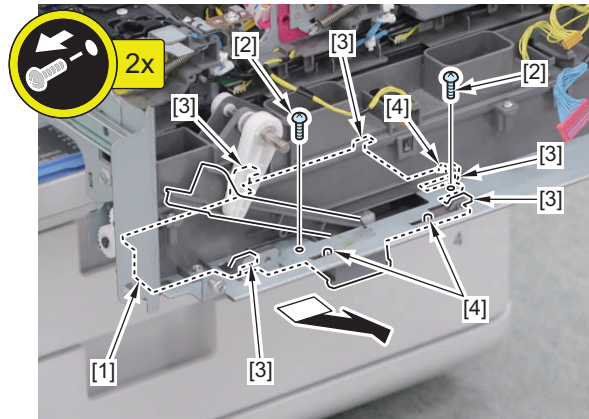
6. Remove the Waste Toner Feed Motor [1].

- 2 Screws [2]



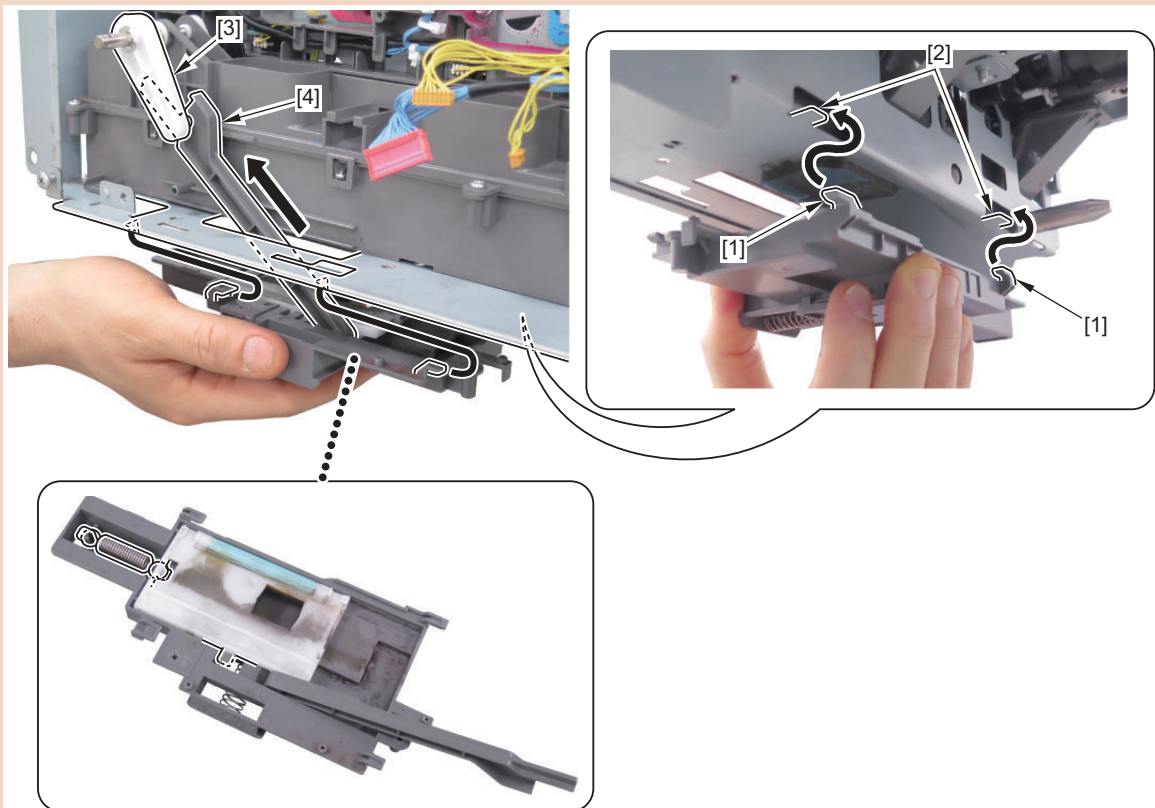
7. Remove the Shutter Cover [1].

- 2 Screws [2]
- 5 Hooks [3]
- 3 Bosses [4]



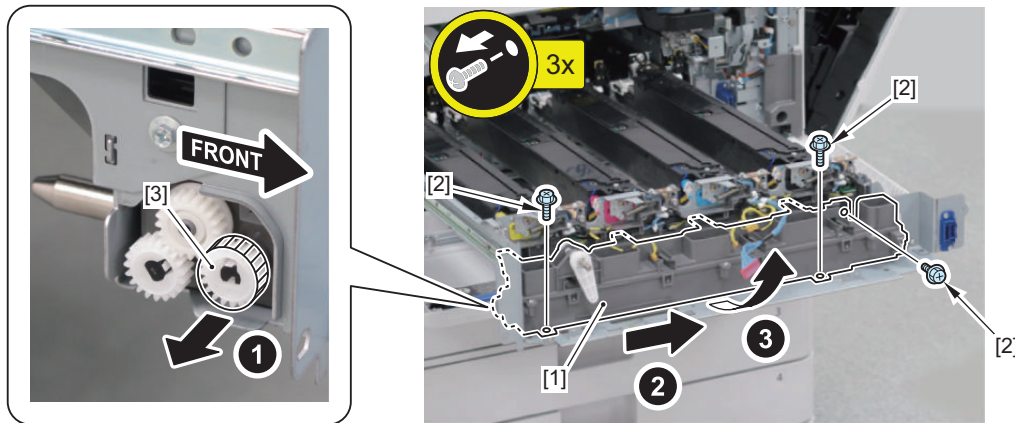
CAUTION:

When installing the Shutter Cover, check that the hook [1] on the back side is hooked to the plate [2] and that the Shutter Cam Link [3] is joined to the Shutter Cam [4].



8. Remove the Waste Toner Feed Unit [1].

- 1 Gear [3]
- 3 Screws [2]

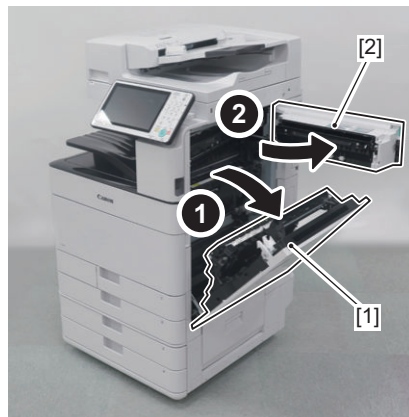
**NOTE:**

When installing the Waste Toner Feed Unit, push the claw of the gear [3] into the groove of the Shaft until it is locked and then check that the gear does not come off.

● Removing the Secondary Transfer Roller/Secondary Transfer Separation Guide Unit

■ Preparation

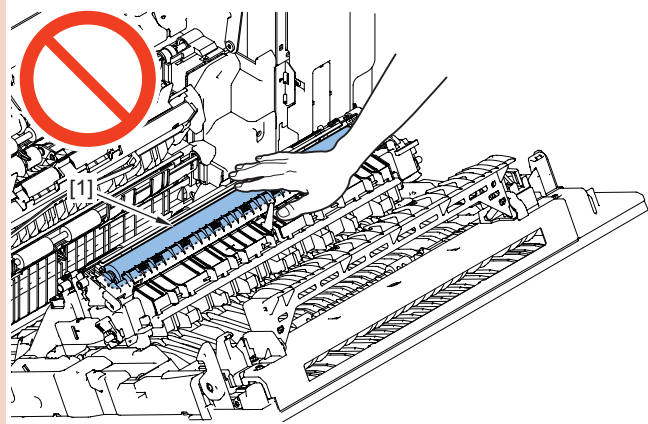
1. Open the Right Lower Cover and the Right Upper Cover.



■ Procedure

CAUTION:

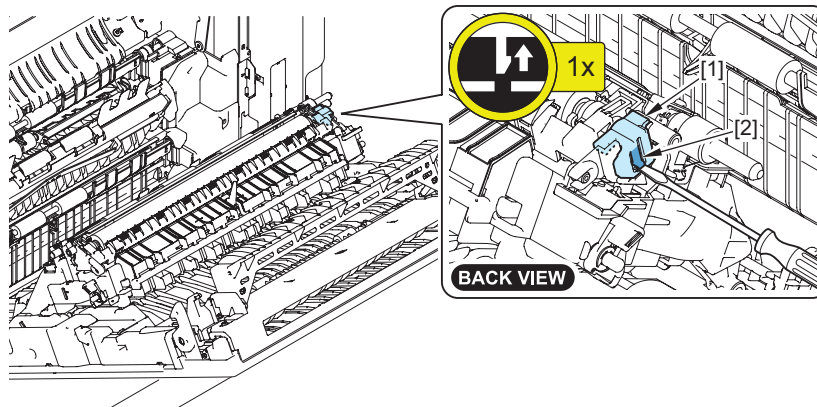
Do not touch the surface of the Secondary Transfer Roller [1].



1. Place paper where the Secondary Transfer Roller Unit is to be placed.

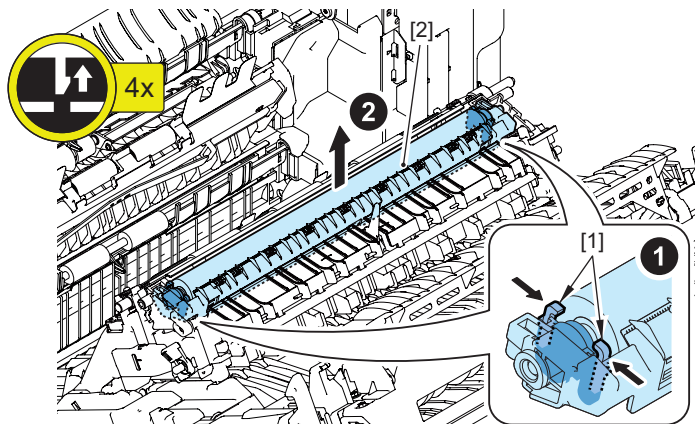
2. Remove the stopper [1] on the rear side.

- 1 Claw [2]



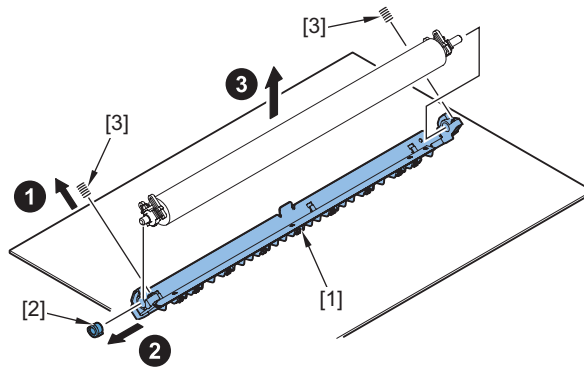
3. Hold the claws [1] of the Shaft Support Holder on both sides, and remove the Secondary Transfer Roller Unit [2].

- 4 Claws [1]

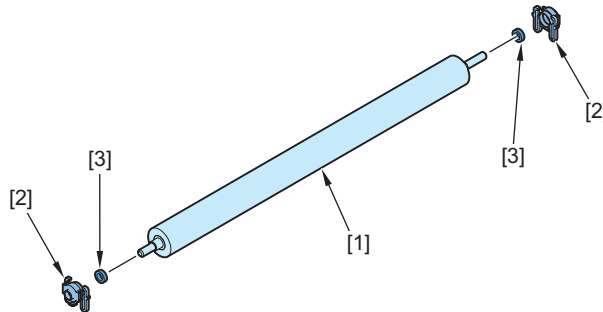


4. Remove the Secondary Transfer Separation Guide Unit [1].

- 1 Bushing [2]
- 2 Springs [3]

**5. Remove the Secondary Transfer Roller [1].**

- 2 Shaft Support Holders [2]
- 2 Bearings [3]

**CAUTION:**

Clear the parts counter in the following service mode after replacing the Secondary Transfer Roller.

- COPIER > COUNTER > DRBL-1 > 2TR-ROLL

Clear the parts counter in the following service mode after replacing the Secondary Transfer Separation Guide Unit.

- COPIER > COUNTER > DRBL-1 > T/S-UNIT

● Installing the Secondary Transfer Roller/Secondary Transfer Separation Guide Unit

■ Preparation

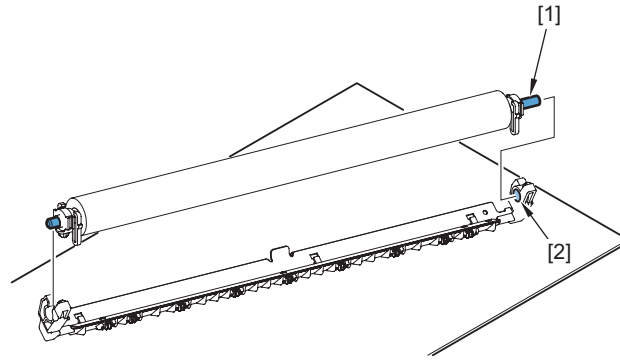
1. Removing the Secondary Transfer Roller/Secondary Transfer Separation Guide Unit“[Removing the Secondary Transfer Roller/Secondary Transfer Separation Guide Unit](#)” on page 362

■ Procedure

CAUTION:

Do not touch the surface of the Secondary Transfer Roller.

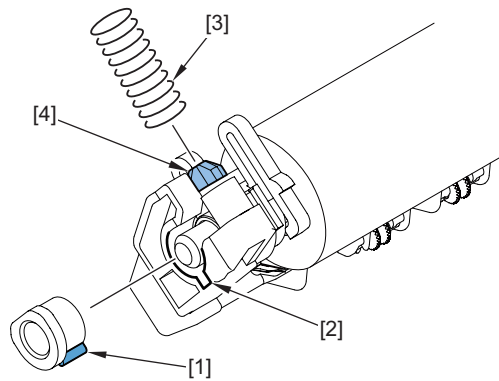
1. Install the Secondary Transfer Roller with its longer shaft [1] on the hole side [2] of the Secondary Transfer Separation Guide Unit.



CAUTION:

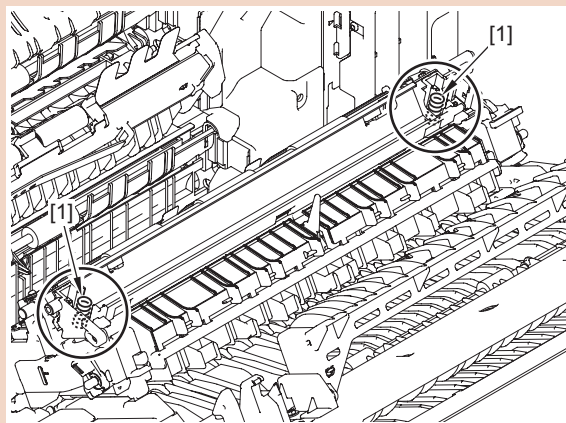
After installing the Secondary Transfer Roller, be sure to check that the Shaft Support Holders rotate.

2. Fit the protrusion [1] into the groove [2] of the guide, and install the bushing.
3. Install the springs [3] to the protrusions [4] on both sides.

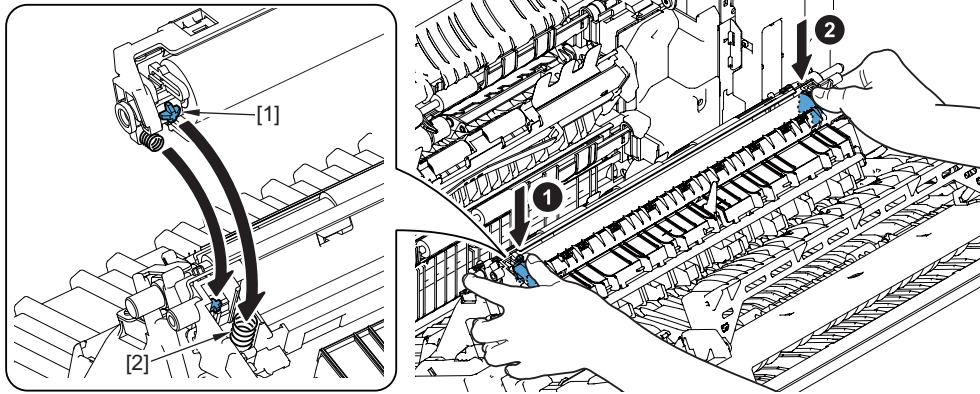


CAUTION:

Be sure to check that the springs [1] on the side of the Duplex Unit are not installed askew.



4. Align the protrusions [1] on the Shaft Support Holders of the Secondary Transfer Roller Unit with the springs [2] on the side of the Duplex Unit, and install them alternately, one side at a time.



5. Install the stopper.

CAUTION:

Clear the parts counter in the following service mode after replacing the Secondary Transfer Roller.

- COPIER > COUNTER > DRBL-1 > 2TR-ROLL

Clear the parts counter in the following service mode after replacing the Secondary Transfer Separation Guide Unit.

- COPIER > COUNTER > DRBL-1 > T/S-UNIT

CAUTION:

Actions after Replacement: [“Actions after Parts Replacement” on page 479](#)

● Removing the Main Drive Unit

■ Preparation

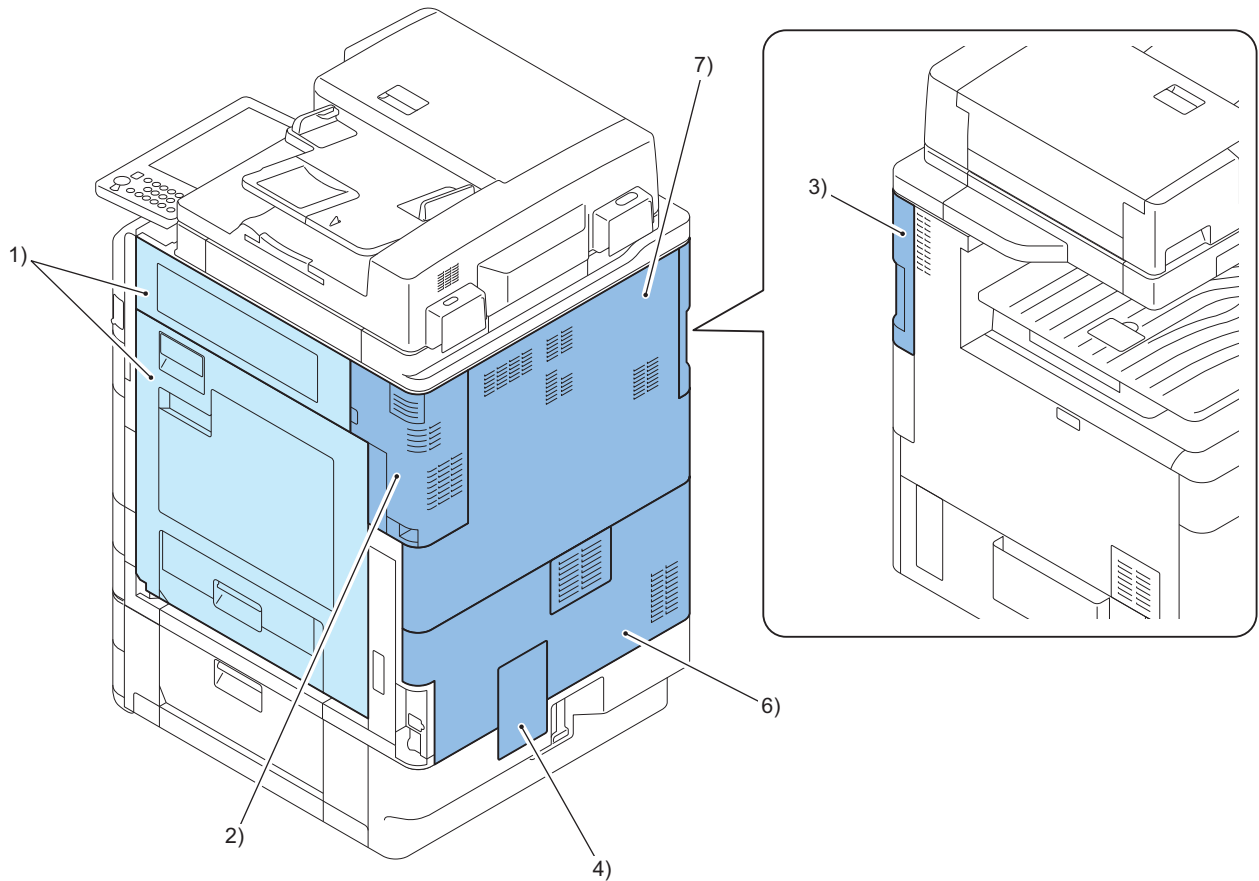
NOTE:

Pulling out the Process Unit for about 5cm in advance will make installation of the Main Drive Unit easier.

1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Right Rear Cover.
3. Removing the Left Rear Cover.

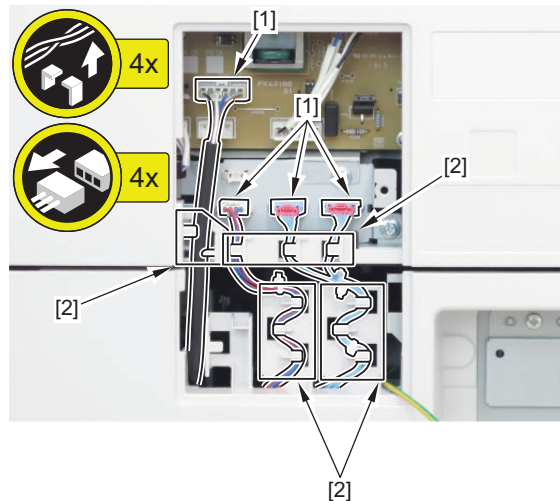
4. Remove the Connector Cover.

- 1 Screw



5. When the Cassette Pedestal is installed, remove the connector.

- 4 Connectors [1]
- 4 Harness Guides [2]



6. Remove the Rear Lower Cover.

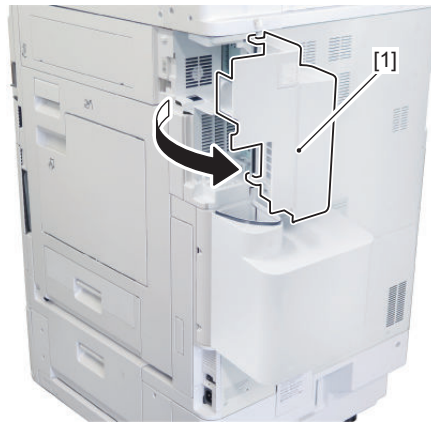
- 2 Screws (RS Tightening; M4)
- 1 Claw
- 1 Hook

7. Remove the Rear Upper Cover.

- 1 Rubber Cap
- 4 Screws (Binding; M3)
- 1 Claw

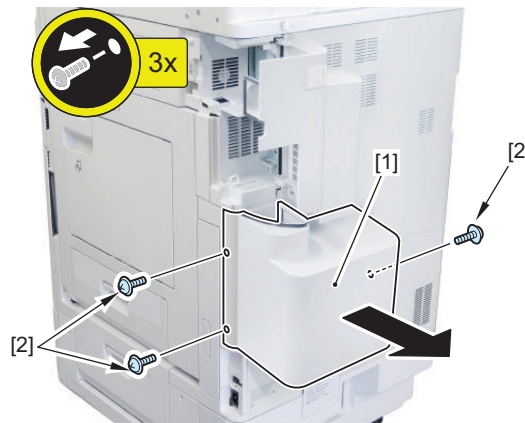
• For the Duct Model (EUR only)

1. Open the Right Rear Cover [1].



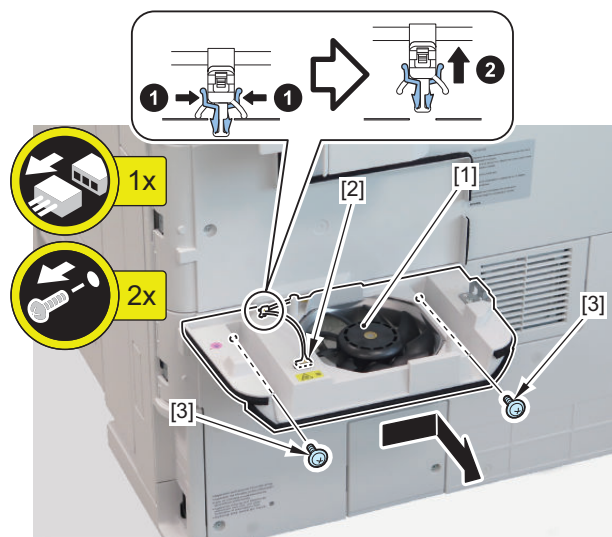
2. Removing the Duct Lower Cover [1].

- 3 Screws [2]



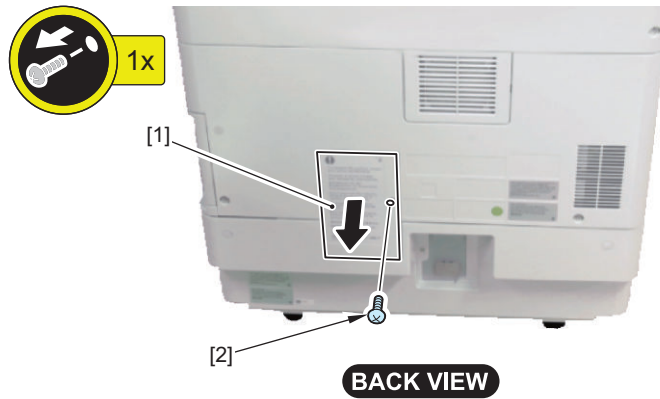
3. Removing the Fan Motor Unit [1].

- 1 Connector [2]
- 2 Screws [3]



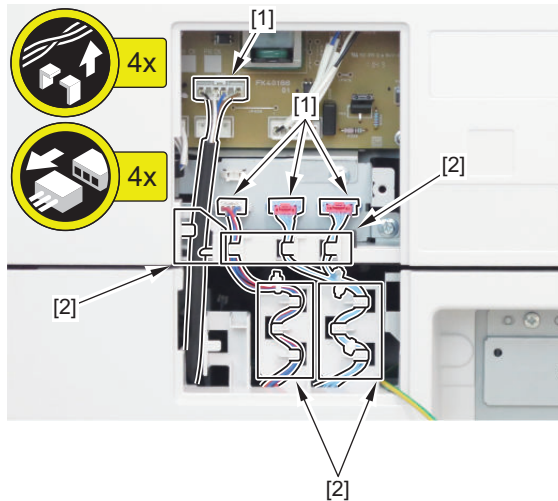
4. Removing the Connector Cover [1].

- 1 Screw [2]



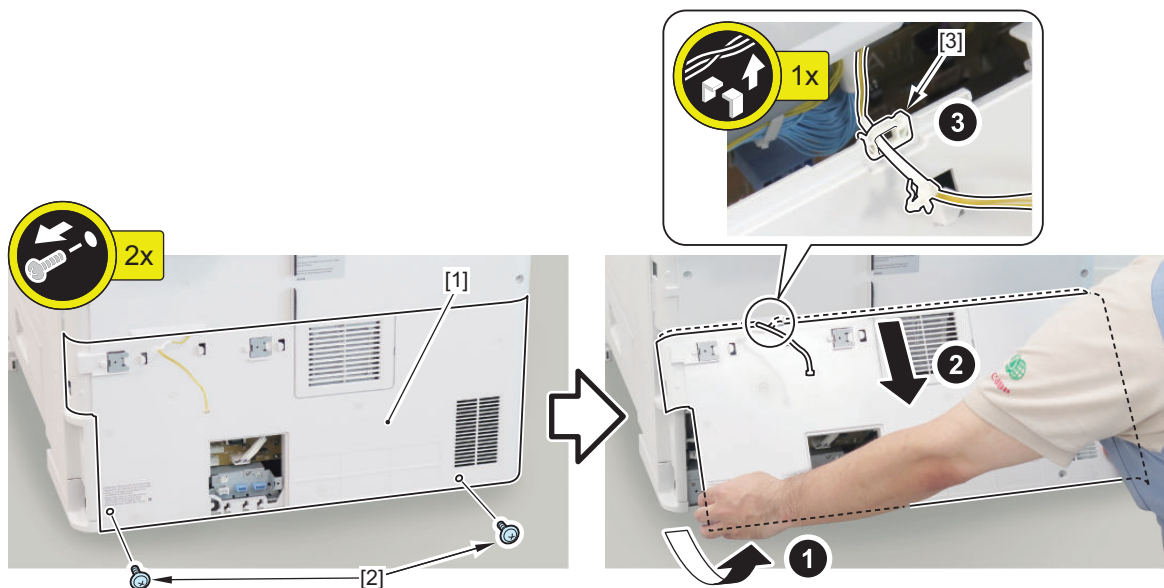
5. If the Cassette Pedestal is installed, disconnect the connectors.

- 4 Connectors [1]
- 4 Harness Guides [2]



6. Remove the Rear Lower Cover [1].

- 2 Screws [2]
- 1 Edge Saddle [3]



7. Open the Right Lower Cover and the Right Upper Cover.

8. Removing the Right Rear Cover

9. Removing the Left Rear Cover

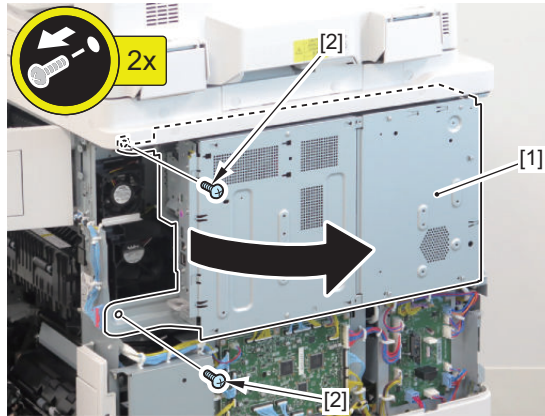
10. Removing the Rear Upper Cover

- 1 Rubber Cap
- 4 Screws (Binding)
- 1 Claw

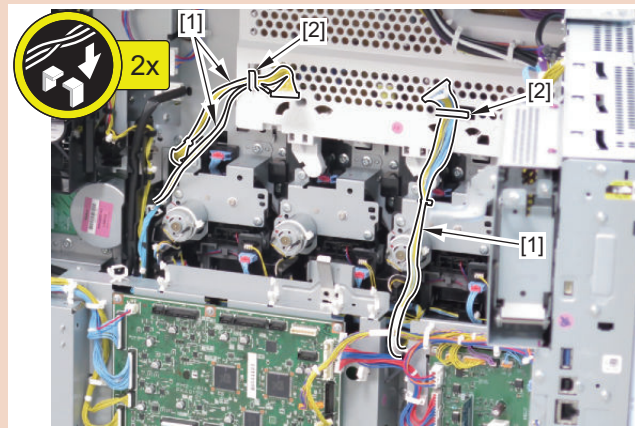
■ Procedure

1. Open the Controller Box [1].

- 2 Screws [2]

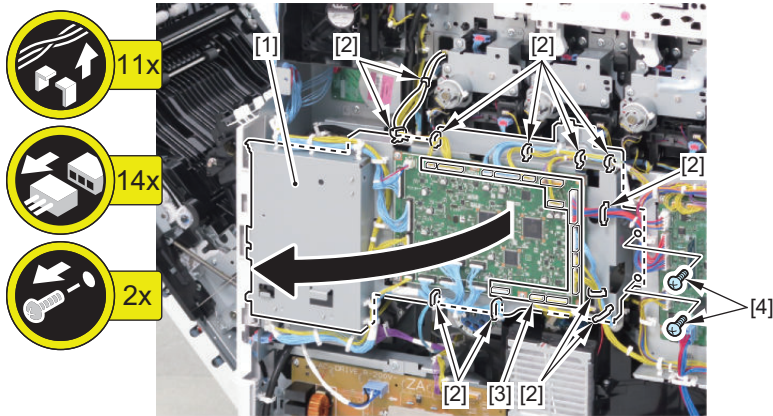
**CAUTION:**

Be sure to hook up the harness [1] freed in step 2 to the 2 hooks [2].



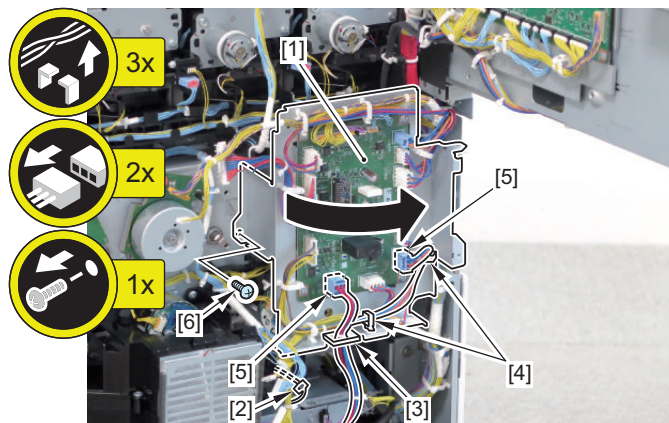
2. Open the Feed/Drum Driver PCB [1].

- 11 Wire Saddles [2]
- 14 Connectors [3]
- 2 Screws [4]



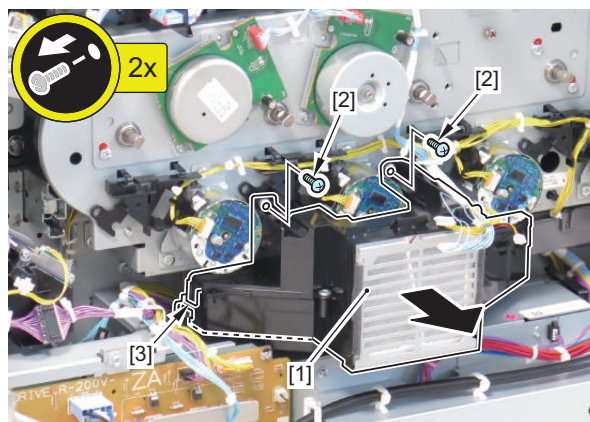
3. Open the Relay PCB [1].

- 1 Fan Relay Connector [2]
- 1 Edge Saddle [3]
- 2 Wire Saddles [4]
- 2 Connectors [5]
- 1 Screw [6] (Binding; M4)



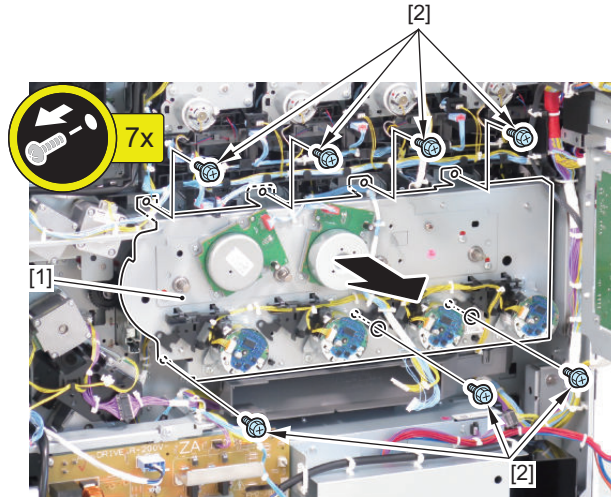
4. Remove the Fan Duct [1].

- 2 Screws [2]
- 1 Claw [3]



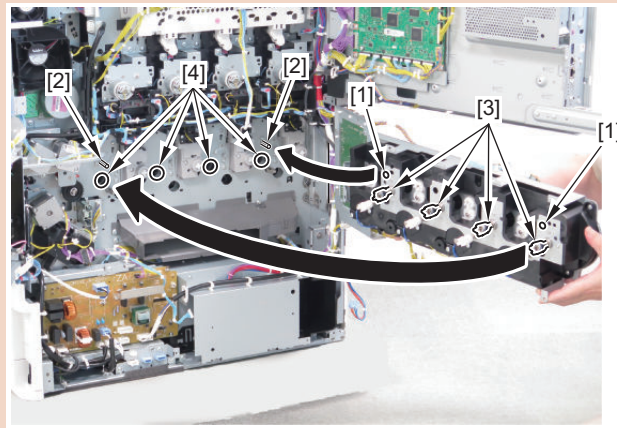
5. Remove the Main Drive Unit [1].

- 7 Screws [2] (RS Tightening)

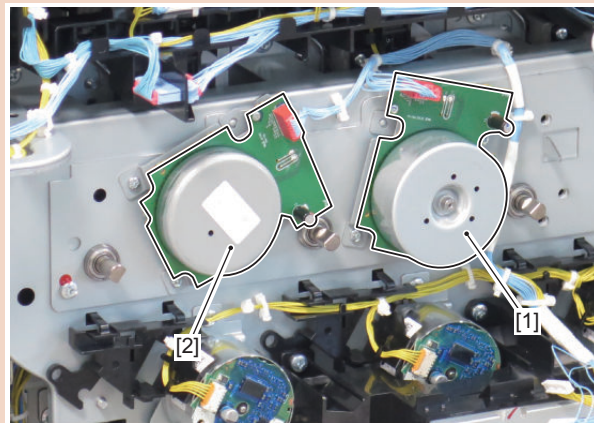
**CAUTION:**

Be sure to fit the 2 holes [1] of the Main Drive Unit to the shafts [2] of the host machine, and fit the 4 couplings [3] into the holes [4] of the host machine when installing.

At this time, pulling out the Process Unit for about 5cm will make installation easier.

**CAUTION:**

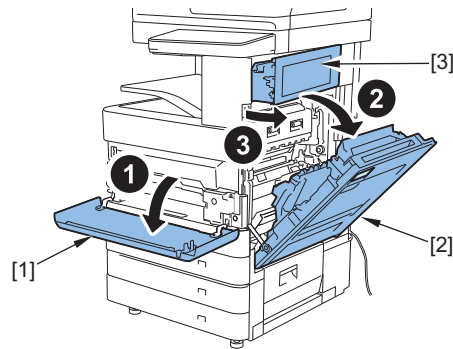
When replacing the Drum Motor (M1 [1] / M4 [2]), replace it with the Process Unit installed to prevent phase shift.



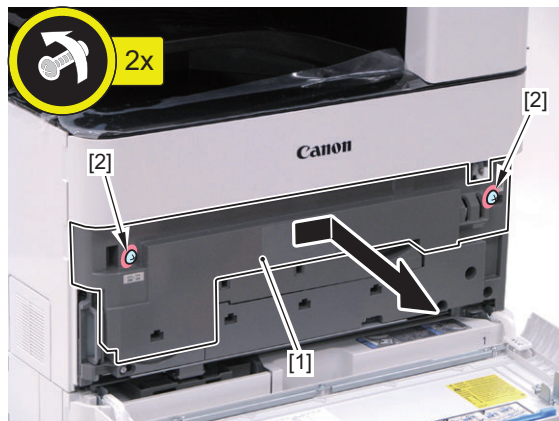
● Removing the Toner Container Front Inner Cover

■ Preparation

1. Open the Front Cover [1], Right Lower Cover [2] and Right Upper Cover [3].

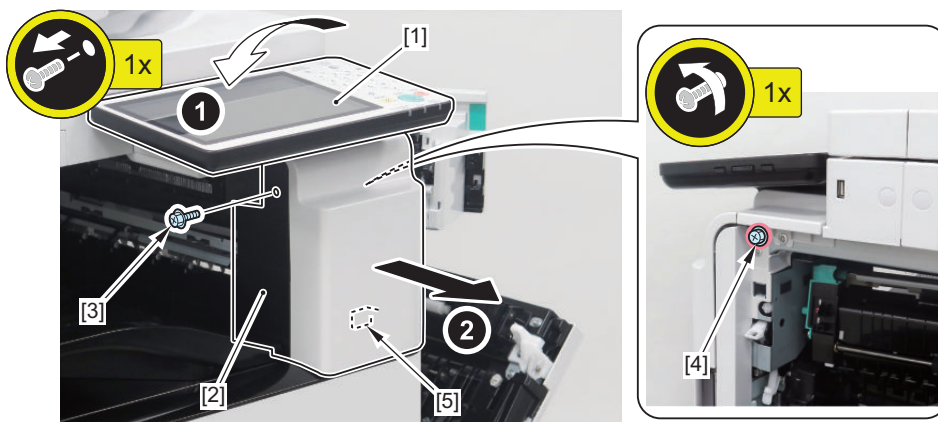


2. Remove the ITB Cover [1].
 - 2 Screws [2] (to loosen)



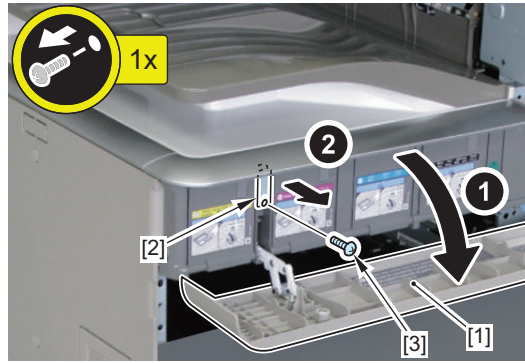
■ Procedure

1. Pull up the Control Panel [1] and remove the Right Front Cover [2].
 - 1 Screw [3] (to remove)
 - 1 Screw [4] (to loosen)
 - 1 Claw [5]



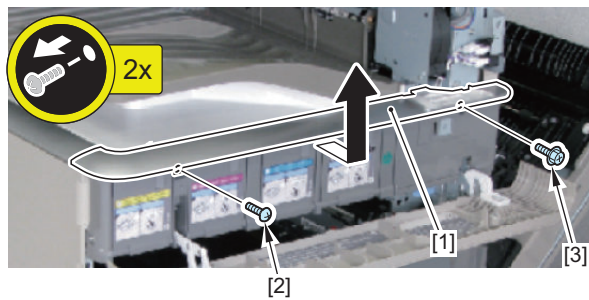
2. Open the Toner Replacement Cover [1] and remove the Small Plate [2].

- 1 Screw [3] (P Tightening)

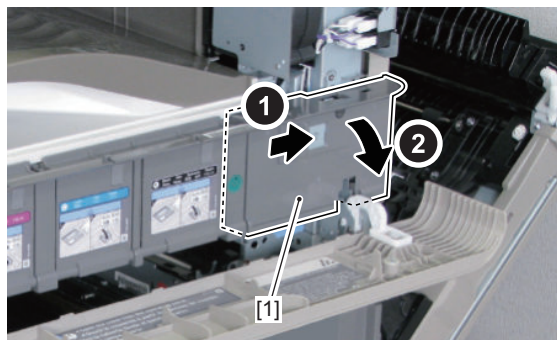


3. Remove the Front Upper Cover Unit [1].

- 1 Screw [2] (P Tightening)
- 1 Screw [3] (RS Tightening)

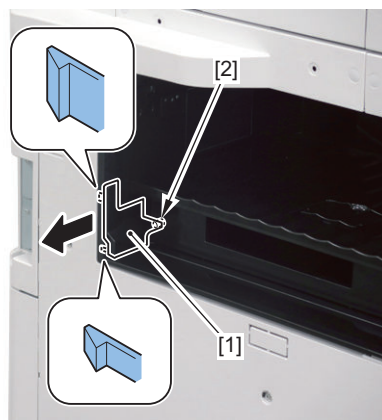


4. Remove the Toner Bottle Right Inner Cover [1].



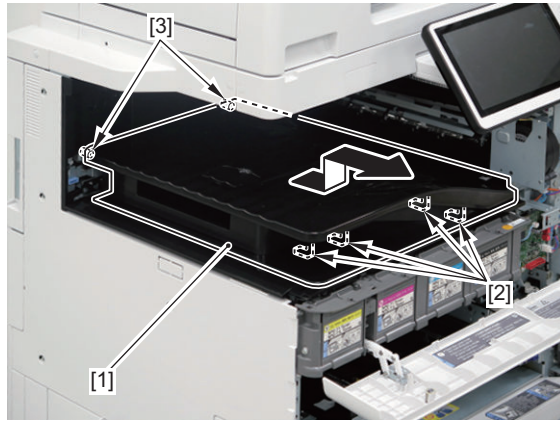
5. Remove the Inner Delivery Cover (Left Rear) [1].

- 1 Boss [2]



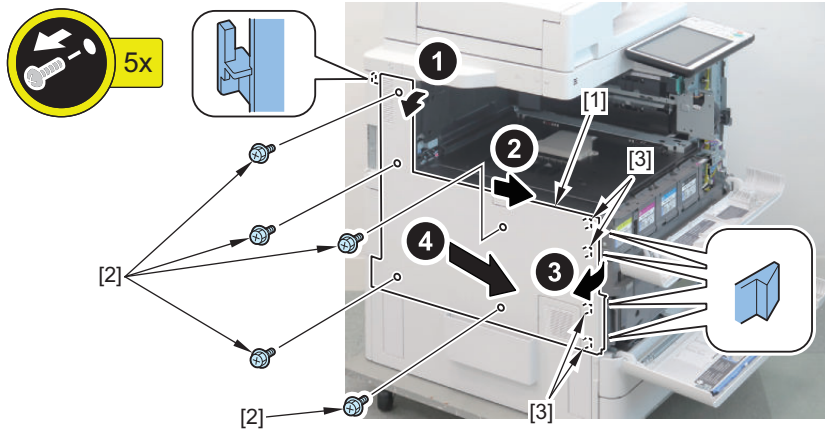
6. Remove the Inner Lower Cover Unit [1].

- 4 Hooks [2]
- 2 Protrusions [3]

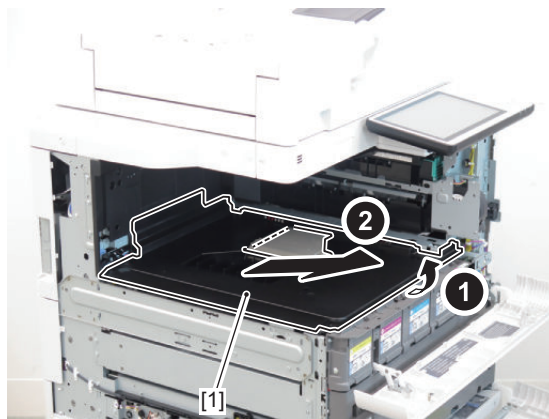


7. Remove the Left Upper Cover [1].

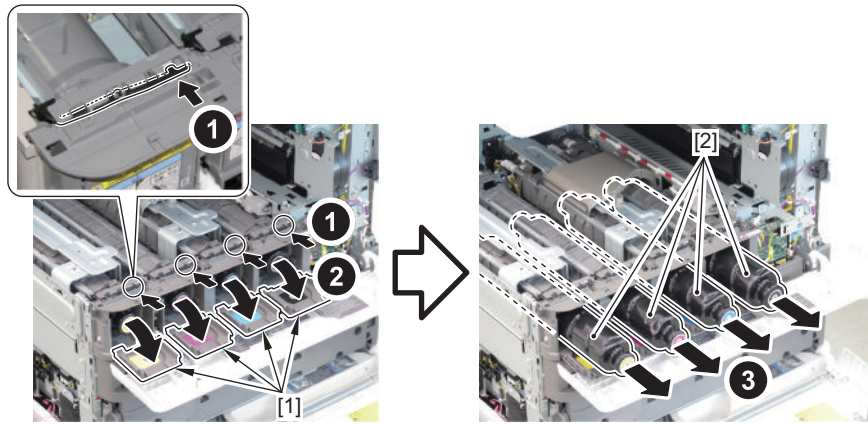
- 5 Screws [2]
- 5 Claws [3]



8. Remove the Inner Delivery Cover (Left) and Inner Delivery Middle Cover [1].

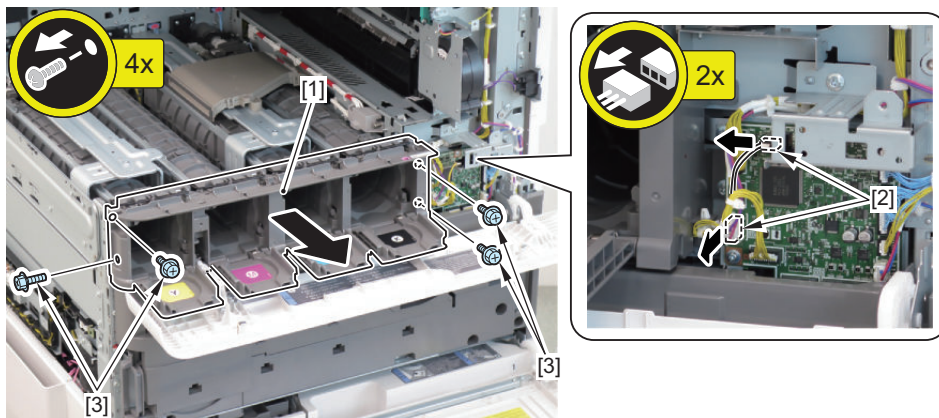


9. Open the 4 Small Covers [1] and remove the 4 Toner Containers [2].



10. Remove the Toner Container Front Inner Cover [1].

- 2 Connectors [2]
- 4 Screws [3]



● Removing the Hopper Unit (M)

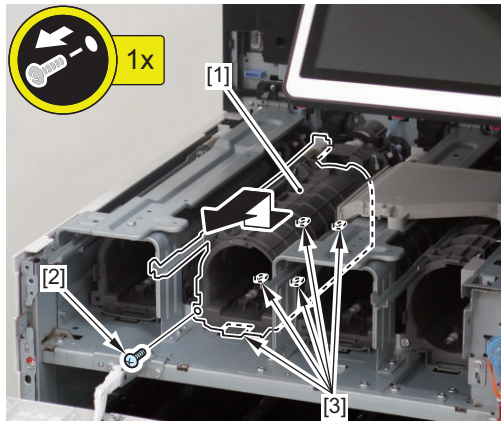
■ Preparation

1. Open the Front Cover, Right Lower Cover, and Right Upper Cover.
2. Removing the Toner Container Front Inner Cover“[Removing the Toner Container Front Inner Cover](#)” on page 373

■ Procedure

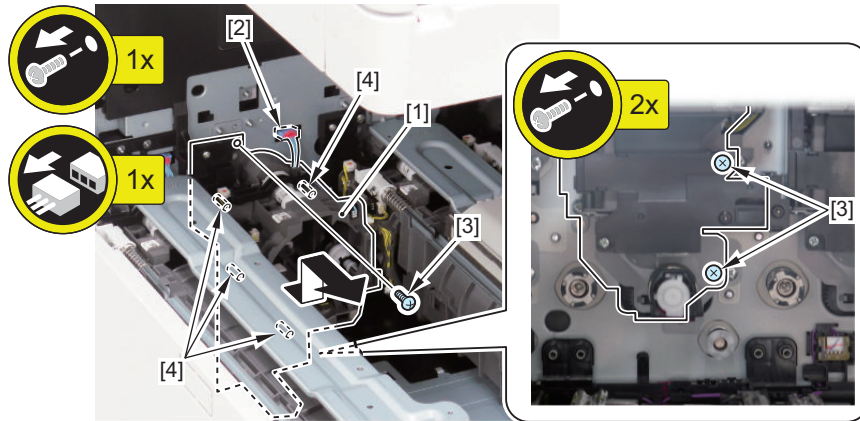
1. Remove the Toner Tray [1].

- 1 Screw [2] (Binding; M4)
- 5 Hooks [3]

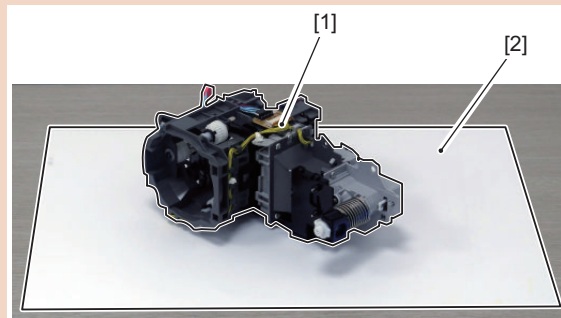


2. Remove the Hopper Unit [1].

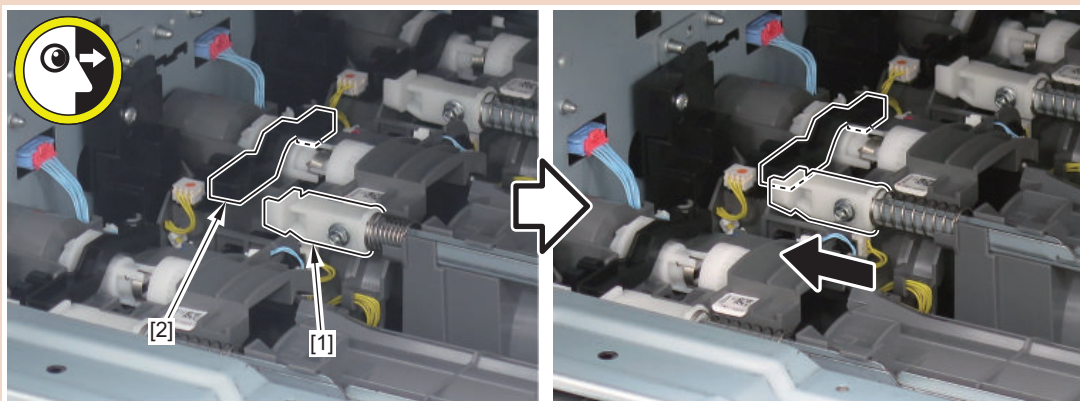
- 1 Connector [2]
- 3 Screws [3]
- 4 Protrusions [4]

**CAUTION:**

Be sure to gently place the Hopper Unit [1] on its side on paper [2] as shown in the figure below to prevent scattering of toner inside the hopper.

**CAUTION:**

When installing the Toner Tray, be sure to align the Rod Lever [1] with the Toner Cover Open/Close Rod Lever [2].

**CAUTION:**

When installing the removed Toner Container, do not shake it.

CAUTION:

When removing the Main Drive Unit simultaneously, install the Main Drive Unit and Hopper Unit in that order. Toner supply failure may occur.

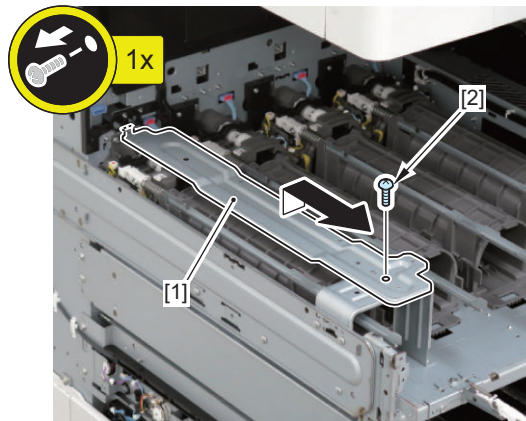
● Removing the Hopper Unit (Y)

■ Preparation

1. Open the Front Cover, Right Lower Cover, and Right Upper Cover.
2. Removing the Toner Container Front Inner Cover“[Removing the Toner Container Front Inner Cover](#)” on page 373
3. Remove the Left Cover.

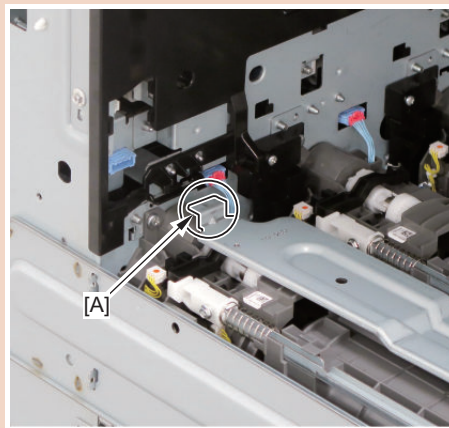
■ Procedure

1. Remove the Hopper Stay [1].
 - 1 Screw [2]



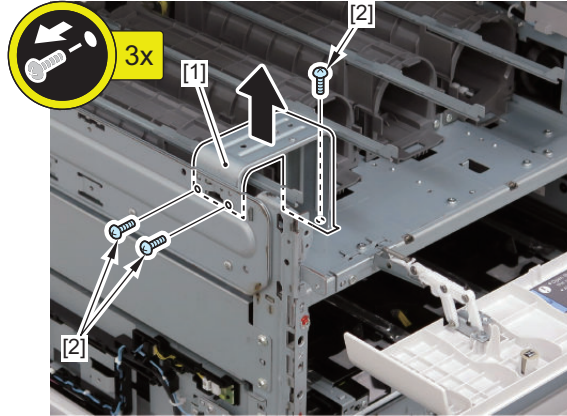
CAUTION:

When removing the Hopper Upper Stay, be sure not to bend the [A] part.



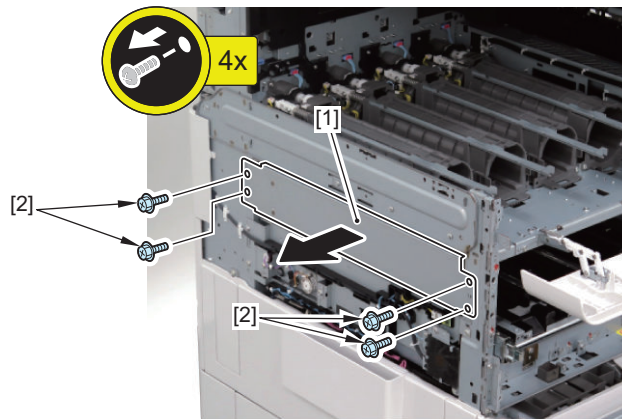
2. Remove the Rail Retainer Plate [1].

- 3 Screws [2]



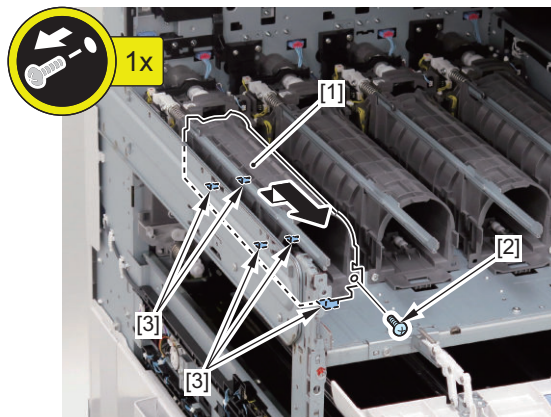
3. Remove the Left Middle Stay [1].

- 4 Screws [2]



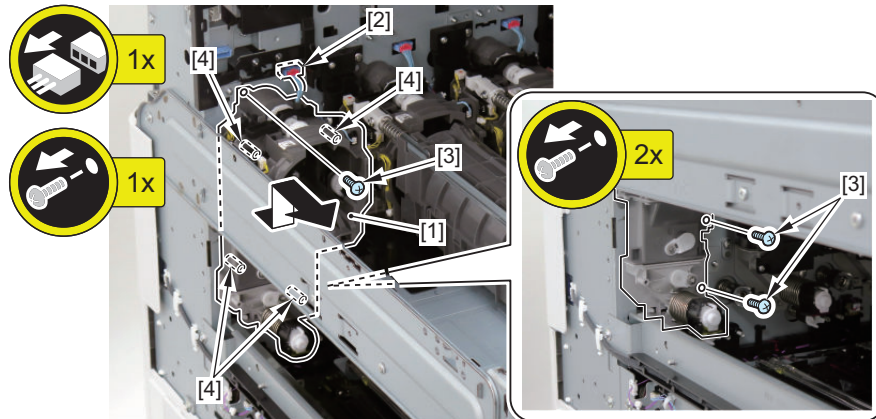
4. Remove the Toner Tray [1].

- 1 Screw [2]
- 5 Hooks [3]

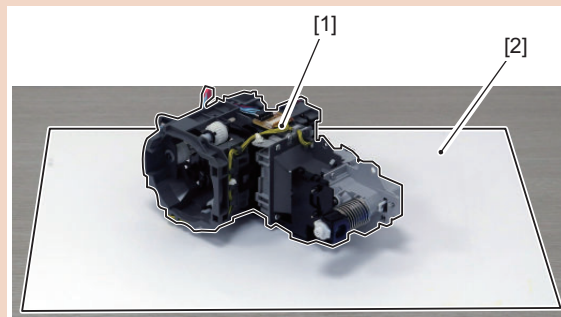


5. Remove the Hopper Unit [1].

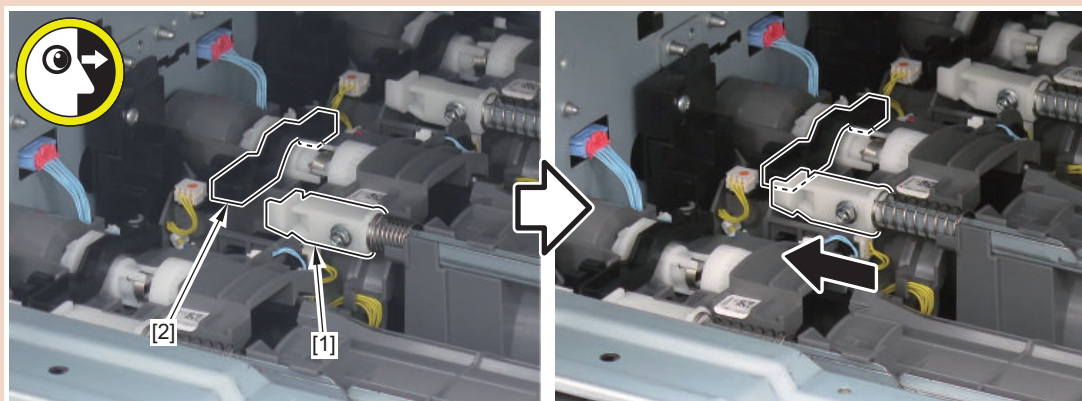
- 1 Connector [2]
- 3 Screws [3]
- 4 Protrusions [4]

**CAUTION:**

Be sure to gently place the Hopper Unit [1] on its side on paper [2] as shown in the figure below to prevent scattering of toner inside the hopper.

**CAUTION:**

When installing the Toner Tray, be sure to align the Rod Lever [1] with the Toner Cover Open/Close Rod Lever [2].

**CAUTION:**

When installing the removed Toner Container, do not shake it.

CAUTION:

When removing the Main Drive Unit simultaneously, install the Main Drive Unit and Hopper Unit in that order. Toner supply failure may occur.

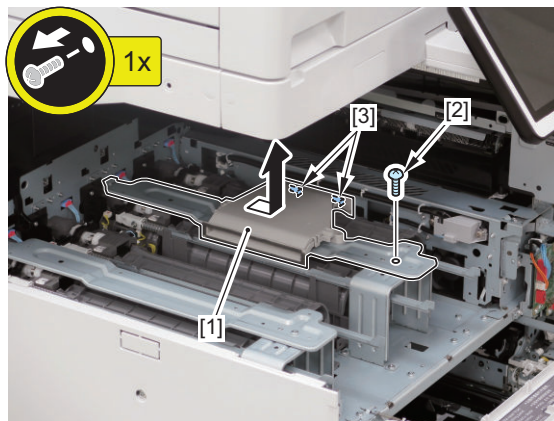
● Removing the Hopper Unit (C)

■ Preparation

1. Open the Front Cover, Right Lower Cover, and Right Upper Cover.
2. Removing the Toner Container Front Inner Cover“[Removing the Toner Container Front Inner Cover](#)” on page 373

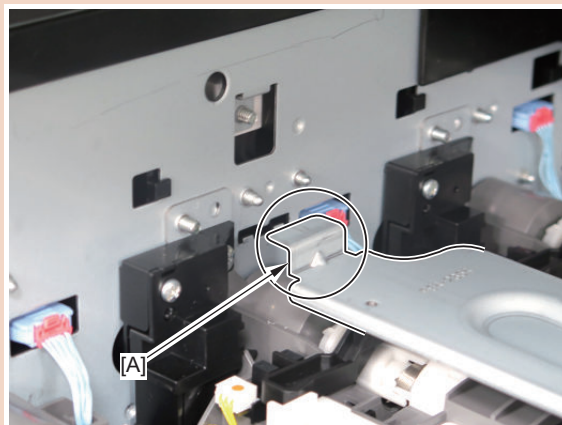
■ Procedure

1. While opening the guide, remove the Hopper Upper Stay [1].
 - 1 Screw [2] (RS Tightening)
 - 2 Hooks [3]



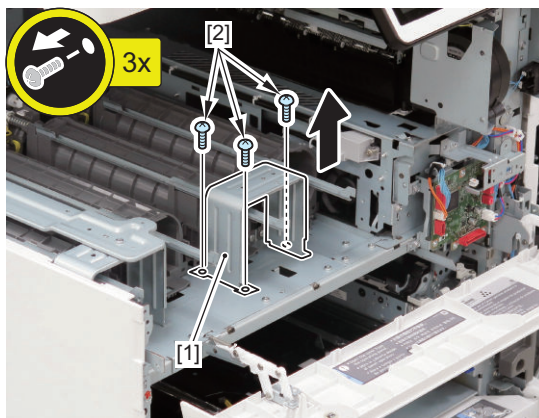
CAUTION:

When removing the Hopper Upper Stay, be sure not to bend the [A] part.

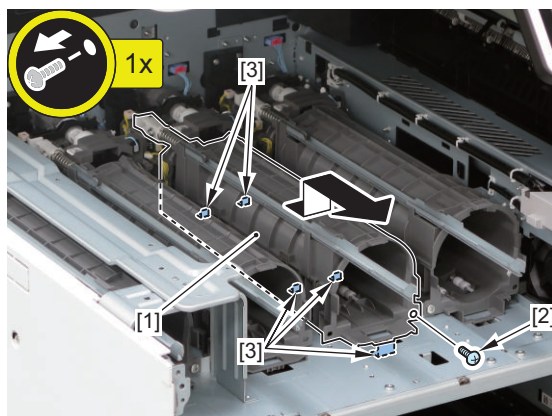


2. Remove the Rail Retainer Plate [1].

- 3 Screws [2] (Binding; M4)

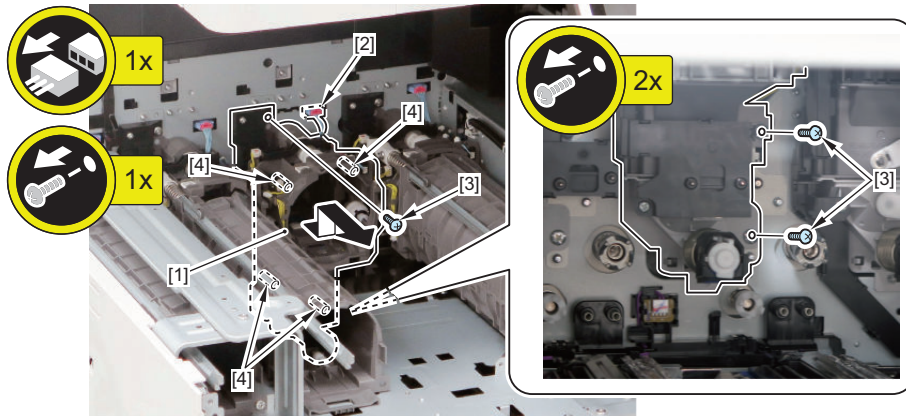
**3. Remove the Toner Tray [1].**

- 1 Screw [2] (Binding; M4)
- 5 Hooks [3]

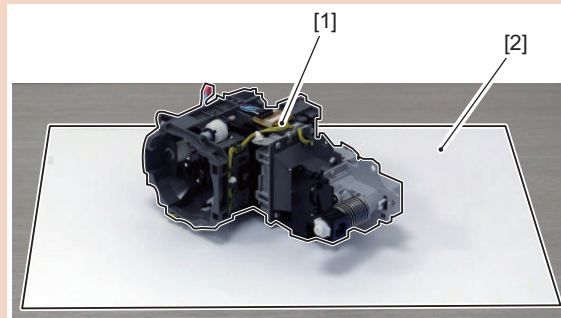


4. Remove the Hopper Unit [1].

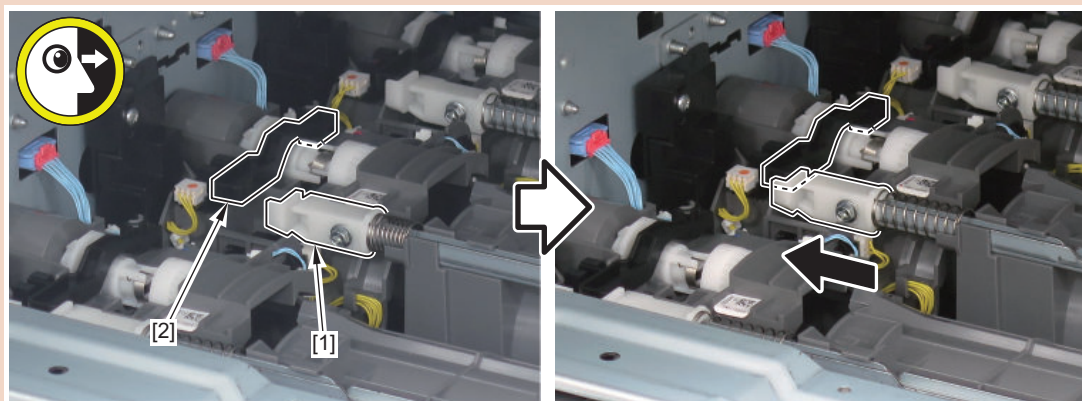
- 1 Connector [2]
- 3 Screws [3]
- 4 Protrusions [4]

**CAUTION:**

Be sure to gently place the Hopper Unit [1] on its side on paper [2] as shown in the figure below to prevent scattering of toner inside the hopper.

**CAUTION:**

When installing the Toner Tray, be sure to align the Rod Lever [1] with the Toner Cover Open/Close Rod Lever [2].

**CAUTION:**

When installing the removed Toner Container, do not shake it.

CAUTION:

When removing the Main Drive Unit simultaneously, install the Main Drive Unit and Hopper Unit in that order. Toner supply failure may occur.

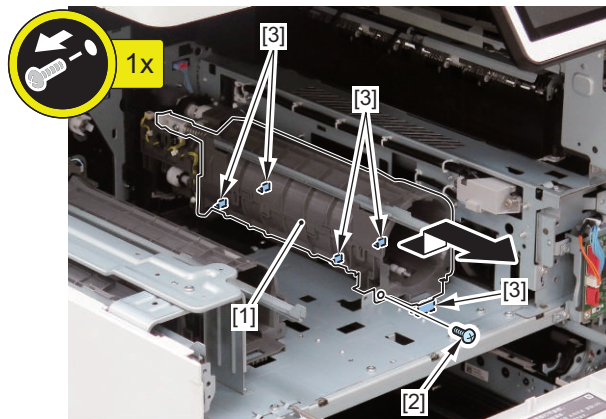
● Removing the Hopper Unit (Bk)

■ Preparation

1. Open the Front Cover, Right Lower Cover, and Right Upper Cover.
2. Removing the Toner Container Front Inner Cover“[Removing the Toner Container Front Inner Cover](#)” on page 373
3. Removing the Hopper Unit (C)“[Removing the Hopper Unit \(C\)](#)” on page 382

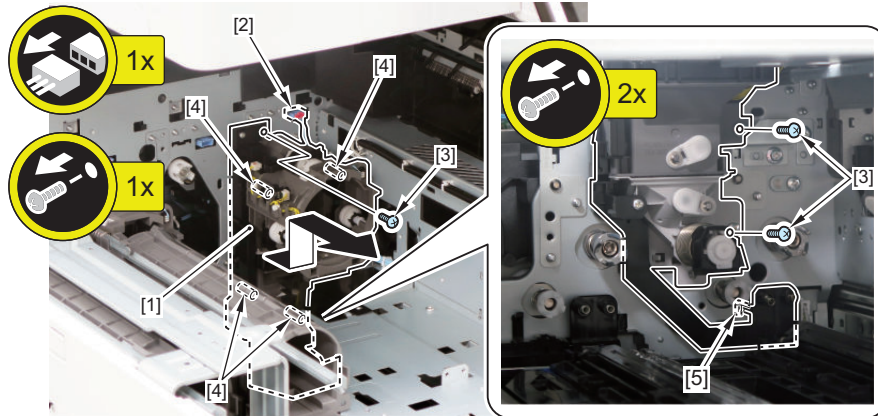
■ Procedure

1. Remove the Toner Tray [1] for Bk only.
 - 1 Screw [2] (Binding; M4)
 - 5 Claws [3]

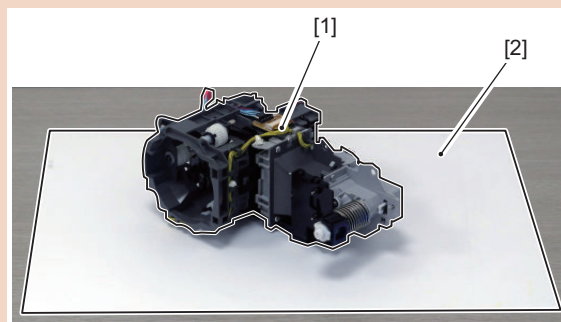


2. Remove the Hopper Unit [1].

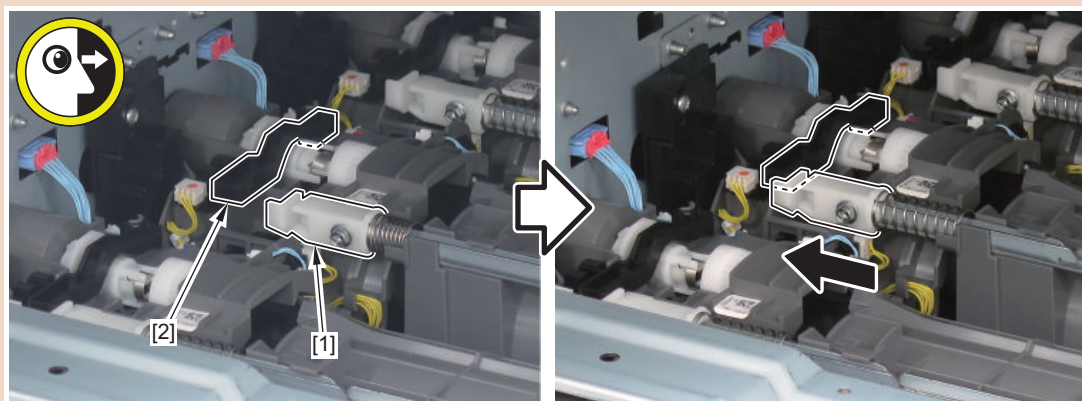
- 1 Connector [2]
- 3 Screws [3]
- 4 Protrusions [4]
- 1 Claw [5]

**CAUTION:**

Be sure to gently place the Hopper Unit [1] on its side on paper [2] as shown in the figure below to prevent scattering of toner inside the hopper.

**CAUTION:**

When installing the Toner Tray, be sure to align the Rod Lever [1] with the Toner Cover Open/Close Rod Lever [2].

**CAUTION:**

When installing the removed Toner Container, do not shake it.

CAUTION:

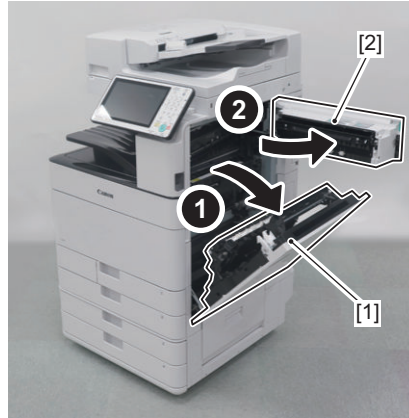
When removing the Main Drive Unit simultaneously, install the Main Drive Unit and Hopper Unit in that order.
Toner supply failure may occur.

Fixing System

● Removing the Fixing Unit

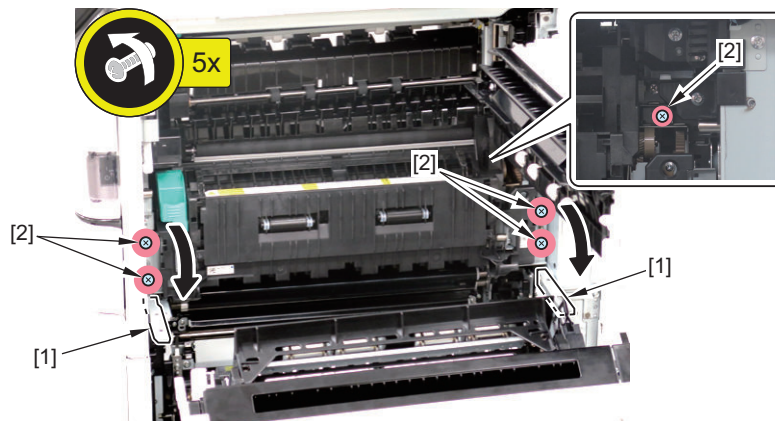
■ Preparation

1. Open the Right Lower Cover [1] and the Right Upper Cover [2].

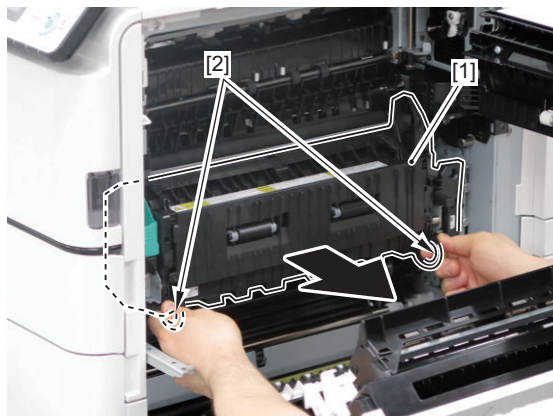


■ Procedure

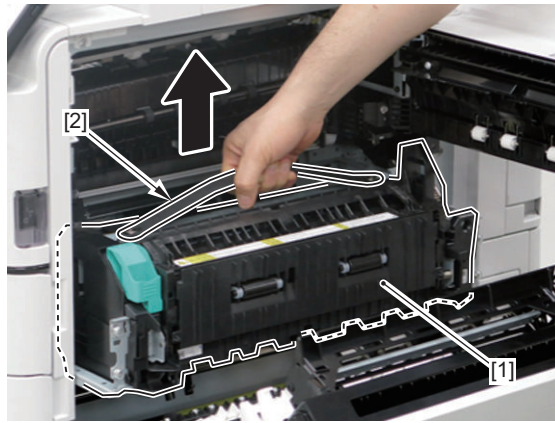
1. Open the Fixing Rail [1], and loosen the 5 screws [2].



2. Hold the tabs [2] and pull out the Fixing Unit [1].

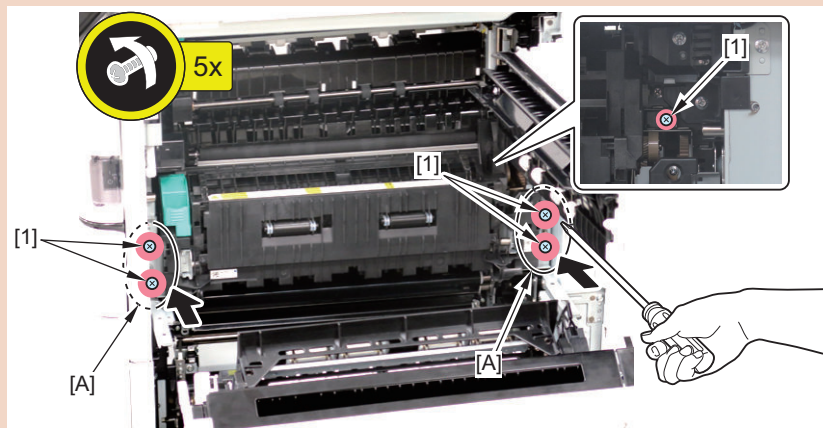


3. Hold the handle [2] and remove the Fixing Unit [1].



CAUTION:

- When installing the Fixing Unit, be sure to insert it until it stops and then tighten the 5 screws while holding down the [A] parts as shown in the figure below.



- If the Fixing Unit is not installed properly, abnormal noise from the Fixing Gear or E009 may occur. In such case, remove and then install the Fixing Unit again.

● Removing the Film Unit

■ Preparation

- Open the Right Lower Cover and the Right Upper Cover.
- Removing the Fixing Unit “[Removing the Fixing Unit](#)” on page 388

■ Procedure

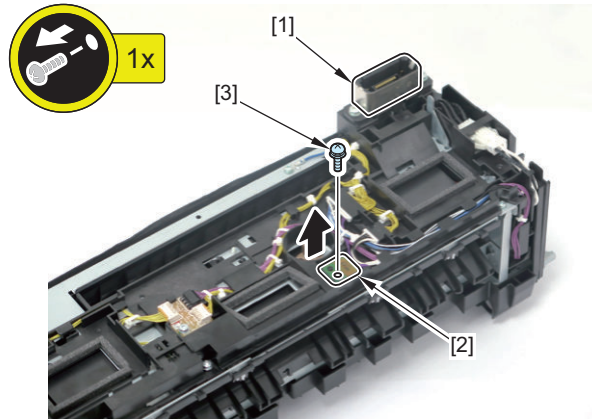
CAUTION:

Be sure not to touch the Fixing Film or the Pressure Roller during installation/removal.

- Change the direction of the Fixing Unit. (Place it so that the Drawer Connector [1] is on the top side.)

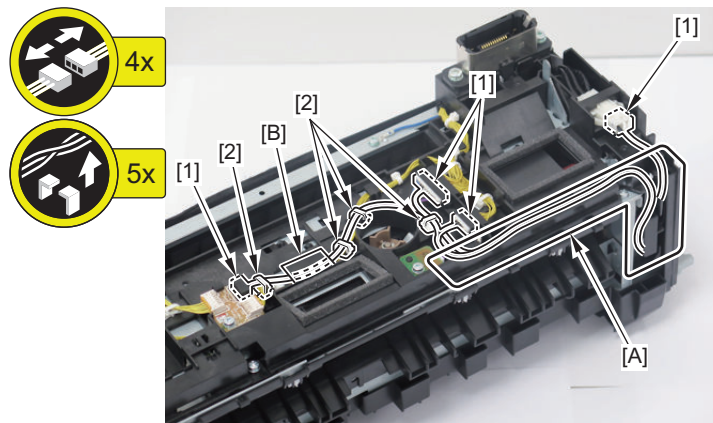
2. Remove the PCB [2].

- 1 Screw [3]



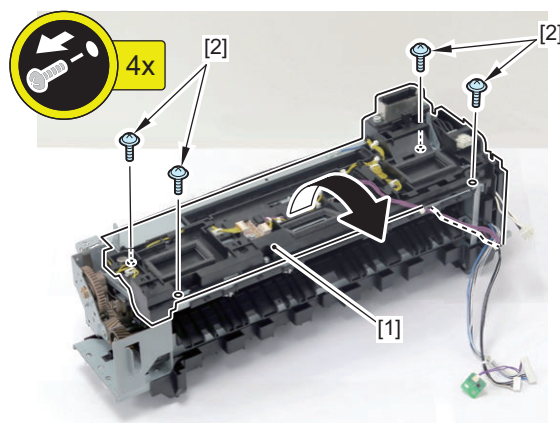
3. Free the harness.

- 4 Connectors [1]
- Harness Guide [A]
- 4 Wire Saddles [2]



4. Turn over the Shutter Unit [1] so that it does not disturb the work.

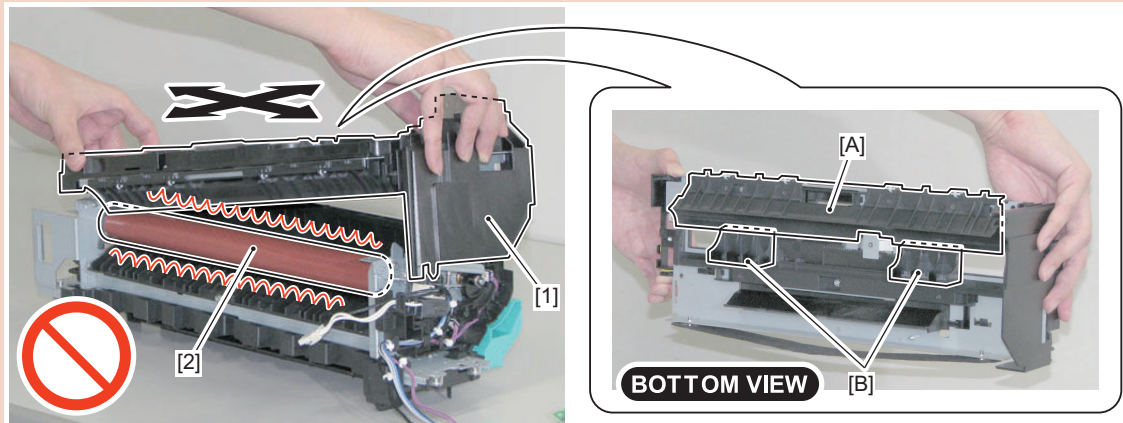
- 4 Screws [2]



CAUTION:

Points to Note at Installation

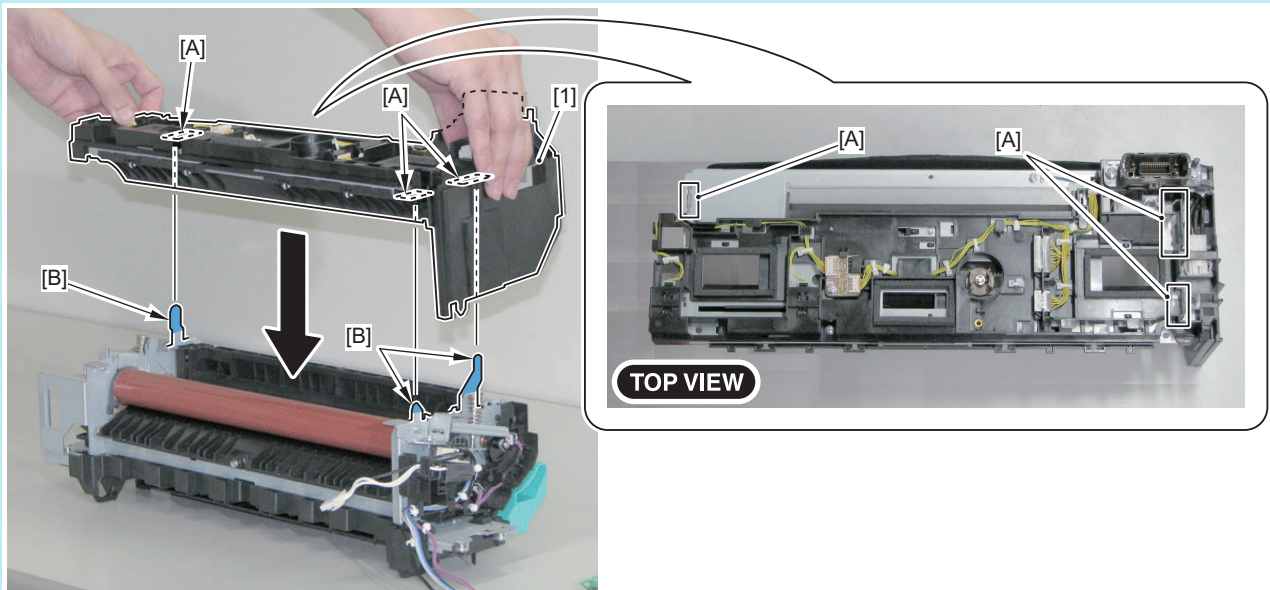
Do not install Shutter Unit [1] askew or move it in the front/back or right/left direction too much at installation. The Fixing Shutter Cover [A] and the shutters [B] of the Shutter Unit [1] may come in contact with the Fixing Film [2], resulting in damage of the film.



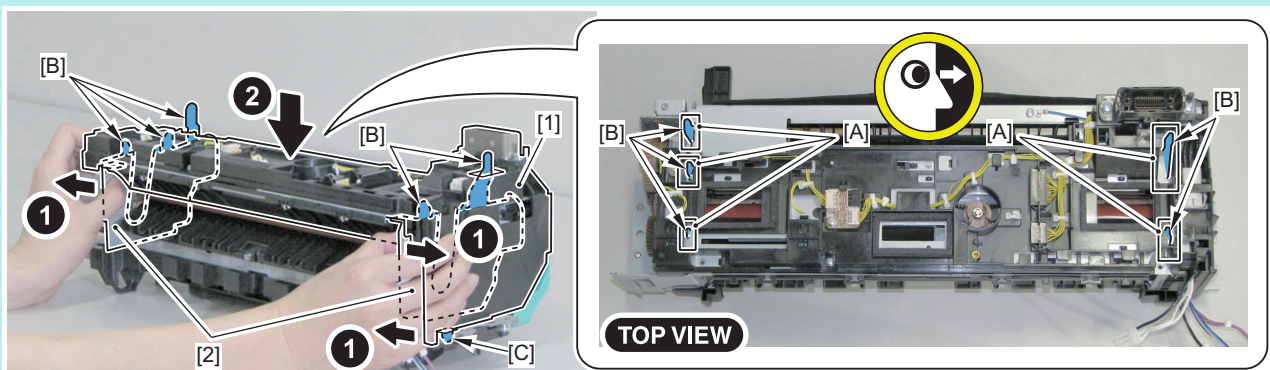
NOTE:

How to install the Shutter Unit

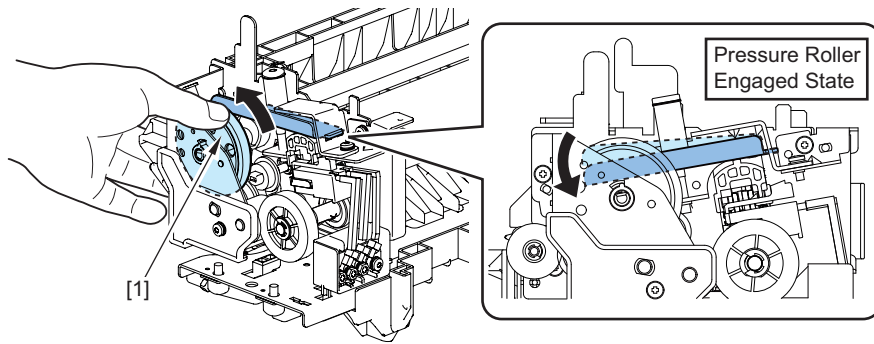
1. Fit the holes [A] of the Shutter Unit [1] onto the 3 protrusions [B] and insert the Shutter Unit while keeping it parallel to the Fixing Assembly.



2. Fit the protrusion [C] and install the Shutter Unit [1] while pushing the frame [2] of the Fixing Unit in the direction of the arrow. Check that the holes [A] of the Shutter Unit [1] are fit onto the 5 protrusions [B].

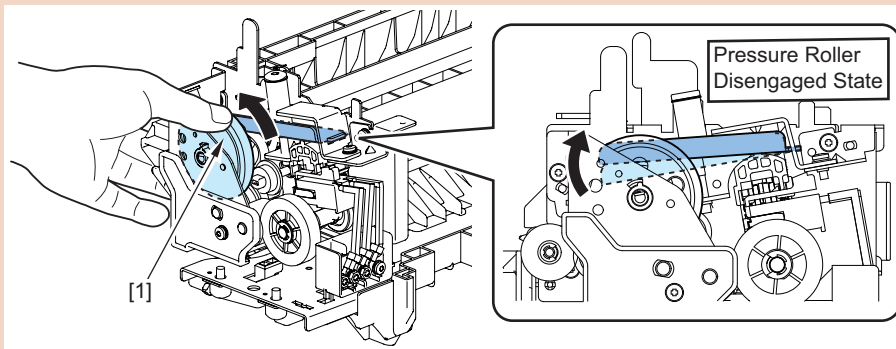


5. Rotate the Pressure Gear [1] by hand and make the Pressure Roller engaged.



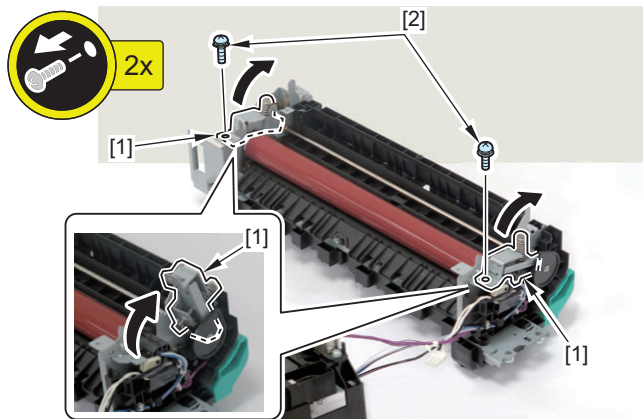
CAUTION:

If you leave the Fixing Unit for a long time, rotate the Pressure Gear [1] by hand and make the Pressure Roller disengaged. Do not leave the Fixing Unit with the Pressure Roller engaged for a long time.



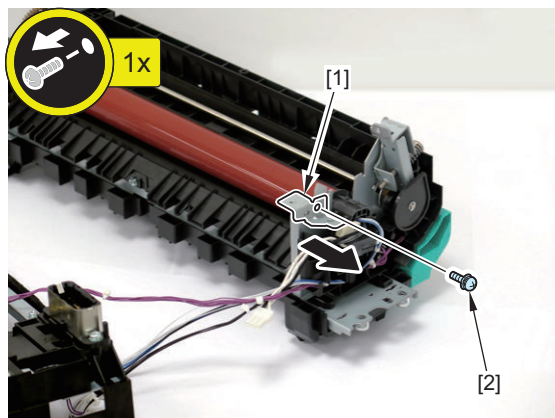
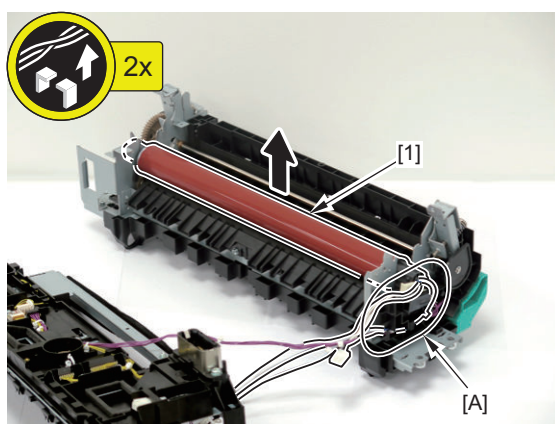
6. Open the left and right Pressure Levers [1].

- 2 Screws [2]



7. Remove the Fixation Plate [1] on the front side.

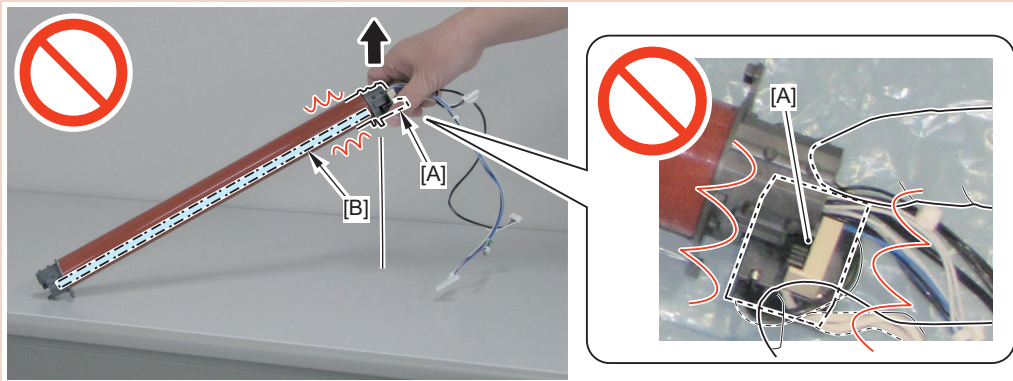
- 1 Screw [2]

**8. Free the harness from the Harness Guide [A], and remove the Film Unit [1].**

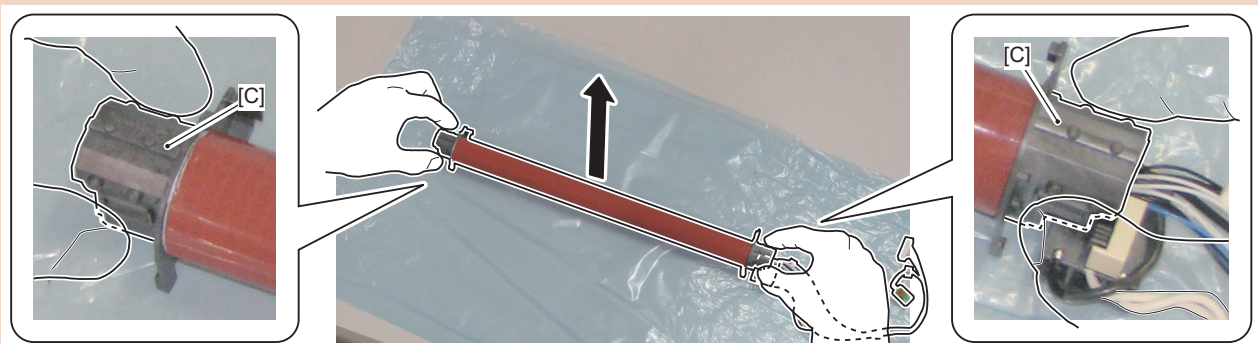
CAUTION:

How to hold the Film Unit

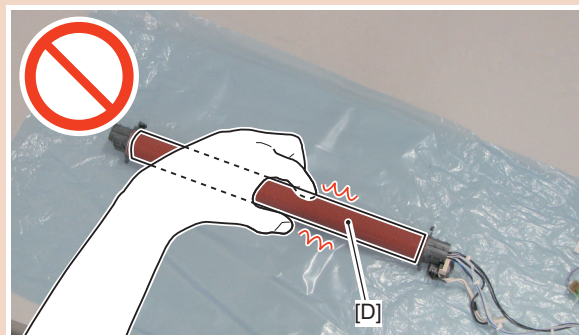
- Do not hold the Heater Connector [A], and do not hold only one end of the Film Unit. Otherwise, the heater [B] may be damaged and E002 may occur.



- When holding the Film Unit, be sure to hold the 2 flanges [C] with both hands.

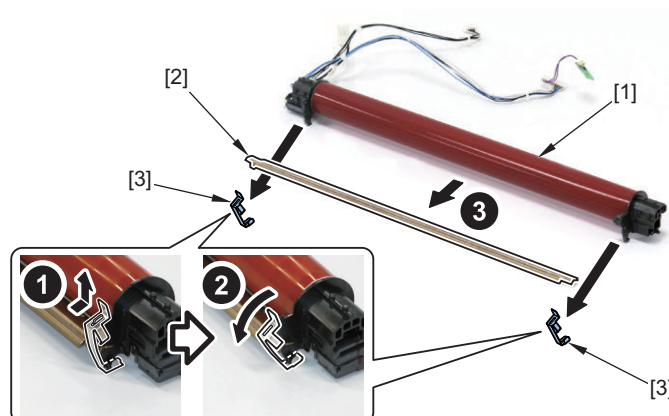


- Do not touch the Fixing Film [D].



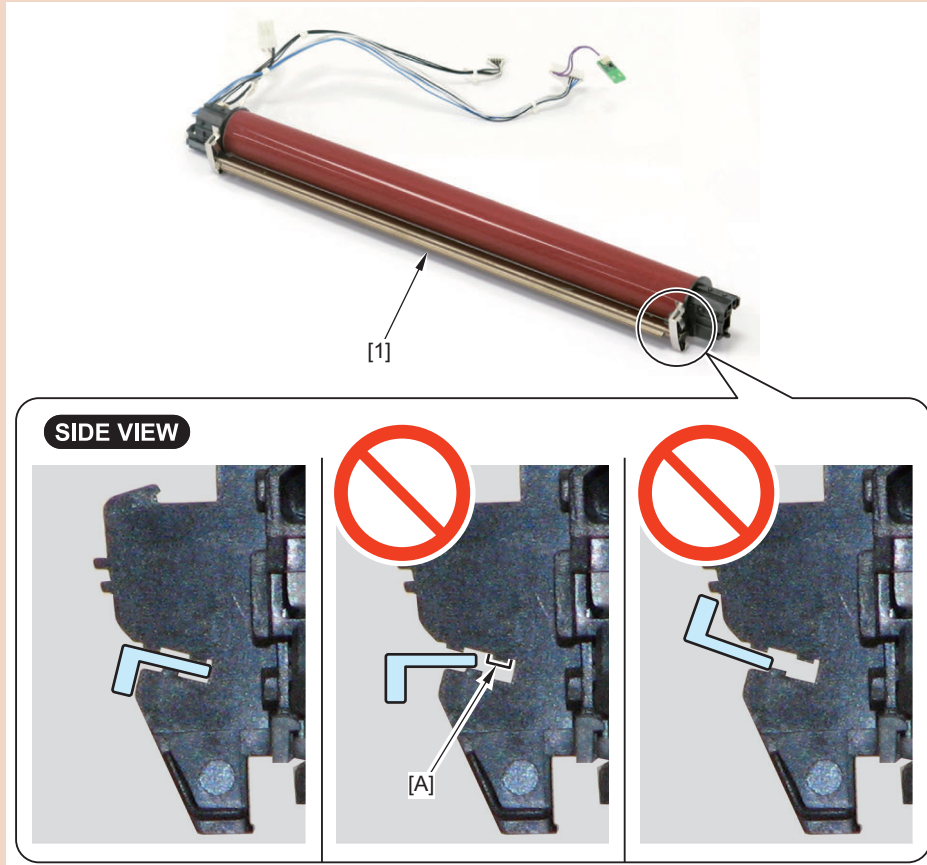
9. Remove the Separation Guide [2] from the Film Unit [1].

- 2 Leaf Springs [3]



CAUTION:

Be sure to check that the Fixing Separation Guide [1] is installed properly.



Examples of improper installation

- Illustration at the center: The Fixing Separation Guide is placed on the rib [A].
- Illustration at the right: The Fixing Separation Guide is installed in opposite direction.

Checking method:

- After installing the Fixing Separation Guide, swing the guide with your finger. If it is installed properly, it is stable. If not, it becomes wobbly.
- When installing the Leaf Spring while the guide is not installed properly, the spring will be expanded awkwardly.

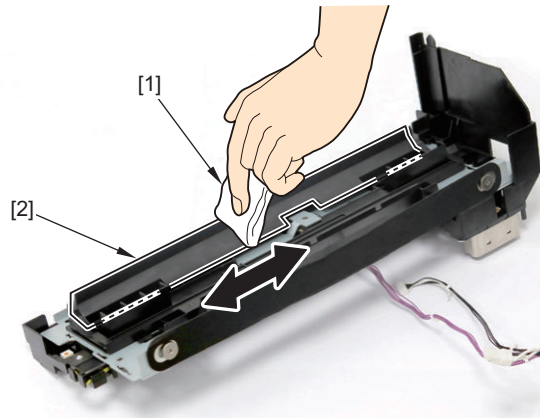
Cleaning the Fixing Shutter Cover

■ Preparation

1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Fixing Unit“[Removing the Fixing Unit](#)” on page 388
3. Removing the Film Unit“[Removing the Film Unit](#)” on page 389

■ Procedure

1. Clean the Fixing Shutter Cover [2] with lint-free paper [1] moistened with alcohol.



● Cleaning the Fixing Separation Guide

■ Preparation

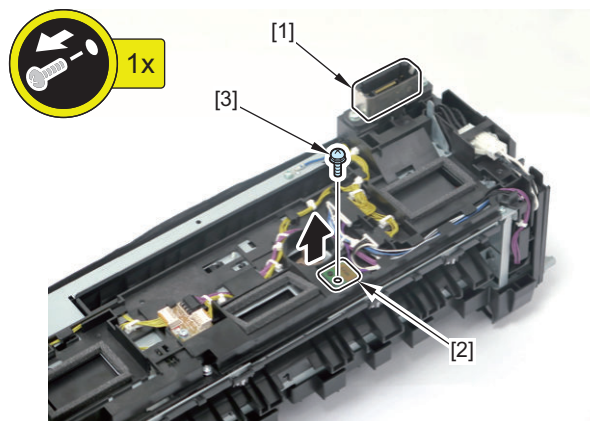
1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Fixing Unit "Removing the Fixing Unit" on page 388

■ Procedure

CAUTION:

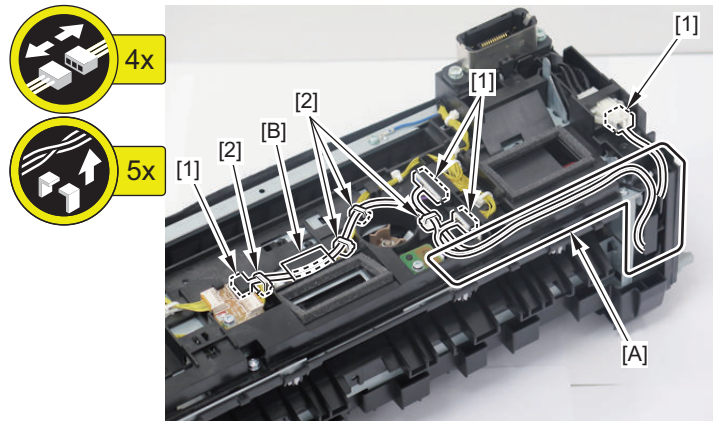
Be sure not to touch the Film Unit or the Pressure Roller during installation/removal.

1. Change the direction of the Fixing Unit. (Place it so that the Drawer Connector [1] is on the top side.)
2. Remove the PCB [2].
 - 1 Screw [3]



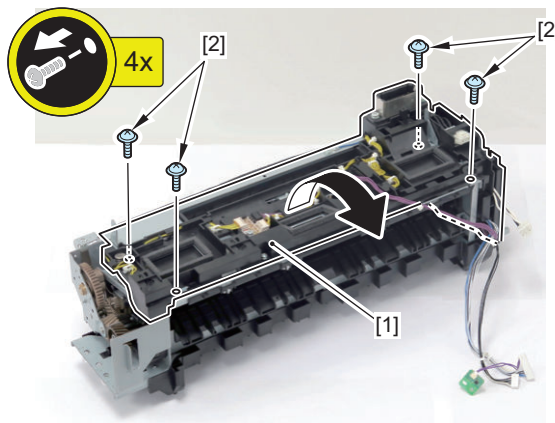
3. Free the harness.

- 3 Connectors [1]
- 1 Wire Saddle [2]
- Harness Guide [A]

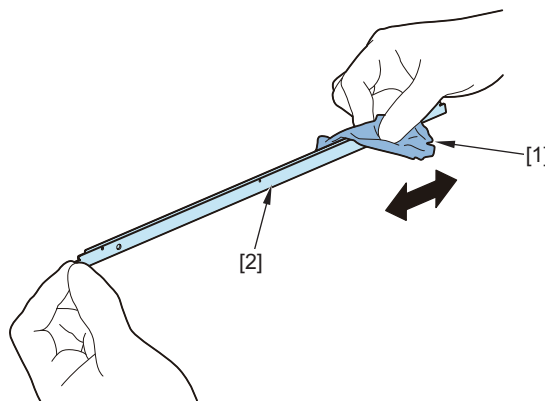


4. Remove the Shutter Unit [1].

- 4 Screws [2]



5. Clean the Fixing Separation Guide [2] with lint-free paper [1] moistened with alcohol.



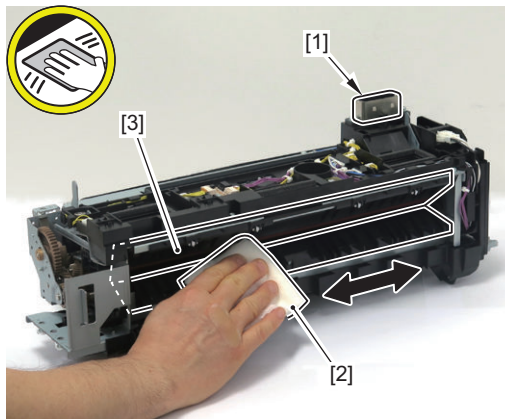
Cleaning the Fixing Inlet Guide

■ Preparation

1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Fixing Unit [“Removing the Fixing Unit” on page 388](#)

■ Procedure

1. Change the direction of the Fixing Unit. (Place it so that the Drawer Connector is on the top side.)
2. Clean the Fixing Inlet Guide with lint-free paper moistened with alcohol.



● Removing the Pressure Roller and Pressure Roller Bearing

■ Preparation

1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Fixing Unit [“Removing the Fixing Unit” on page 388](#)
3. Removing the Film Unit [“Removing the Film Unit” on page 389](#)

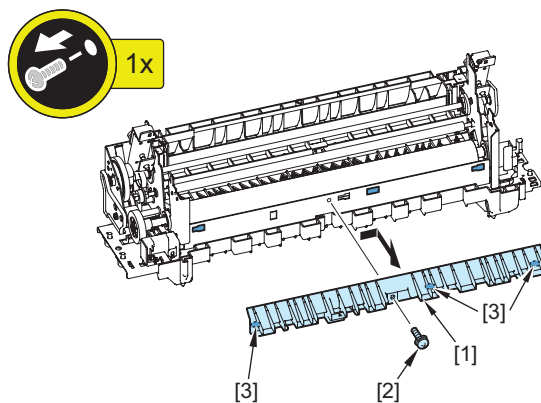
■ Procedure

CAUTION:

Be sure not to touch the Pressure Roller during installation/removal.

1. Remove the Fixing Inlet Guide [1].

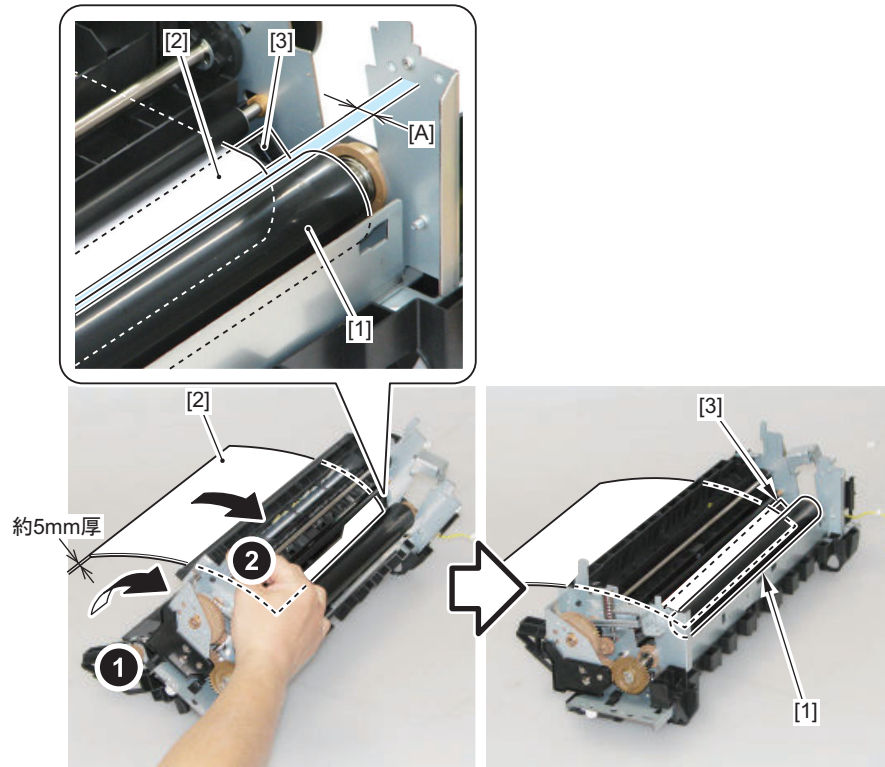
- 1 Screw [2]
- 3 Hooks [3]



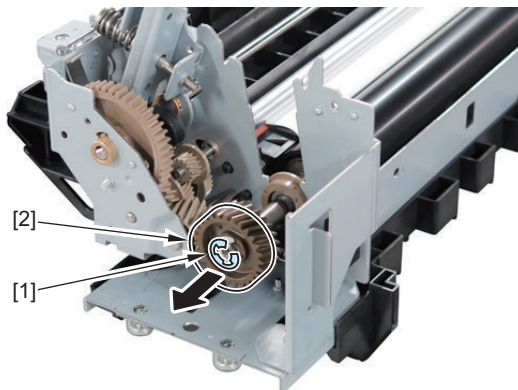
CAUTION:

At the time of installation, be sure to fit the 3 hooks into the grooves.

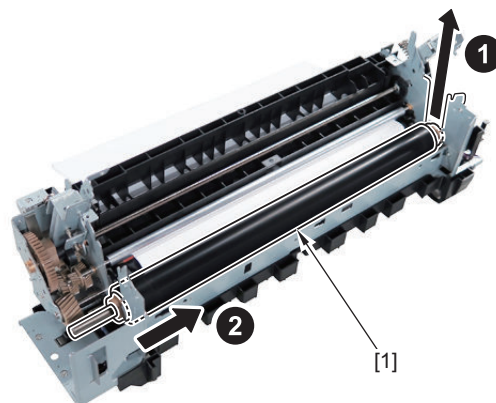
2. In order to prevent damage to the Pressure Roller [1] during installation or removal, insert paper [2] (approx. 5 mm in thickness) between the roller and the Fixing Delivery Lower Guide to create clearance between the Inner Delivery Guide [3] and the Pressure Roller [1].



3. Remove the E-ring [1] and then remove the 27T Gear [2].

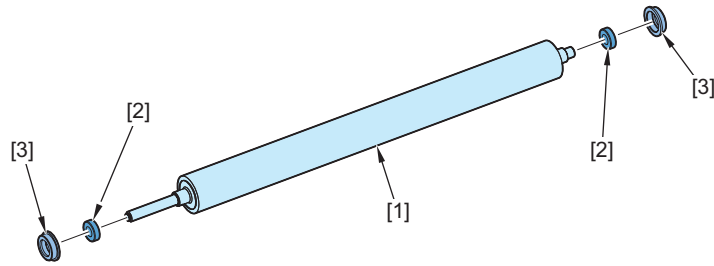


4. Lift up the right side of the Pressure Roller Unit [1] and remove it.



5. Remove the Pressure Roller [1] and the 2 Pressure Roller Bearings [2] from the Pressure Roller Unit.

- 2 Bearing Holders [3]

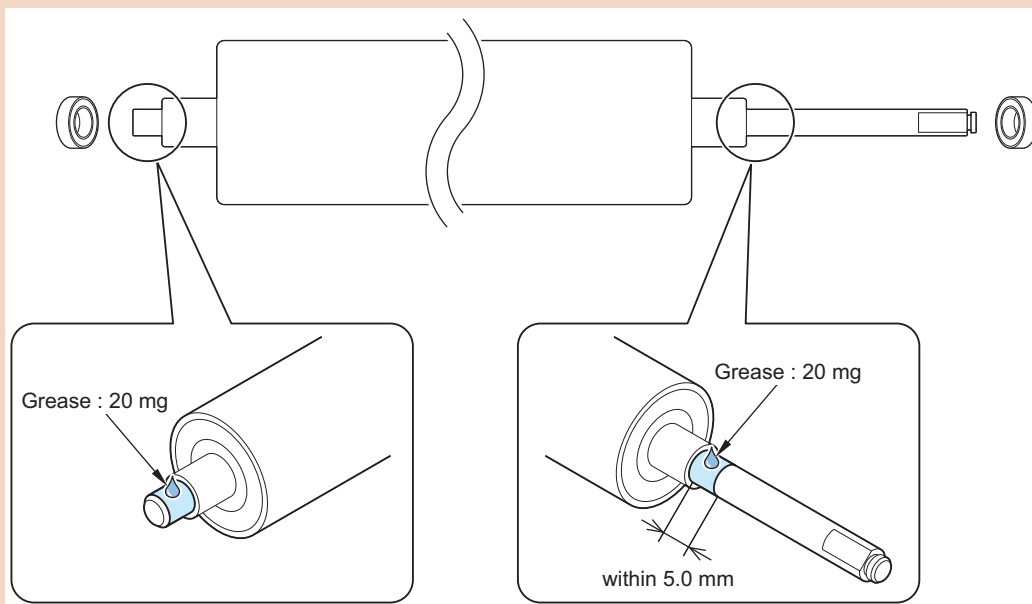


CAUTION:

Actions at Replacement

In order to prevent abnormal noise, be sure to apply a small amount (20 mg on each side) of grease to the bearing fitting part of the Fixing Pressure Roller Shaft shown in the figure below when replacing the Fixing Pressure Roller Unit. (Just apply a thin layer in the circumferential direction.)

Grease that can be used: MOLYKOTE HP-300 , SE1107“Solvent/Oil List” on page 1590



- Never apply grease to the surface of the Fixing Pressure Roller.
- Do not use grease other than those above.
- This unit is dedicated to iR-ADV C5500 series.
This cannot be used for iR-ADV C5200/C5000 series.

CAUTION:

Clear the parts counter in the following service mode after replacing the Pressure Roller.

- COPIER > COUNTER > DRBL-1 > FX-LW-RL

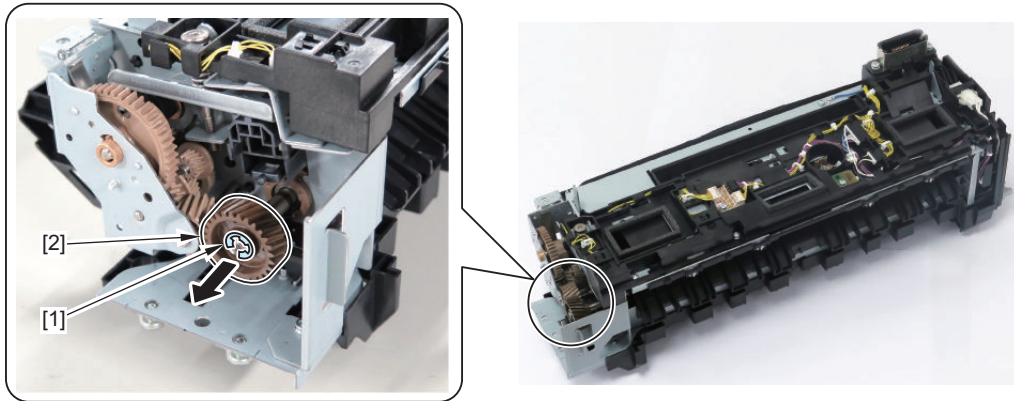
● Removing the 27T Gear

■ Preparation

1. Open the Right Lower Cover and the Right Upper Cover.
2. Removing the Fixing Unit“Removing the Fixing Unit” on page 388

■ Procedure

1. Remove the E-ring [1] and then remove the 27T Gear [2].

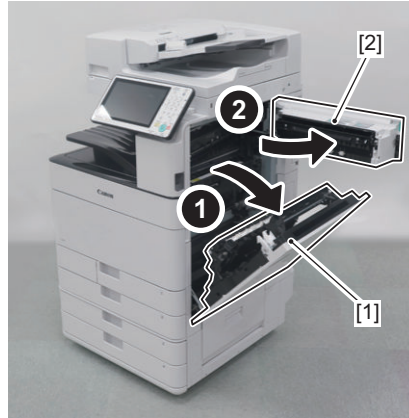


Pickup Feed System

Cleaning the Secondary Transfer Guide

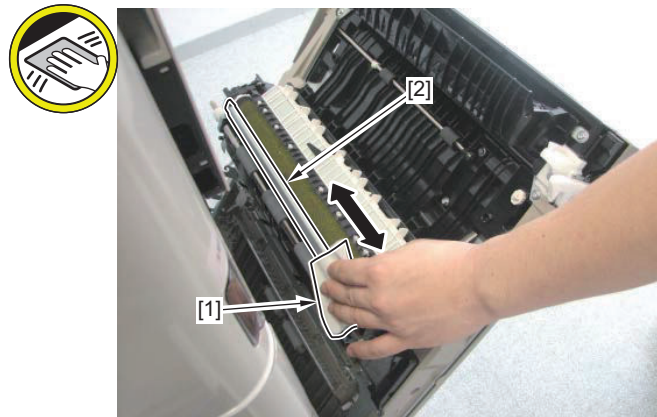
■ Preparation

1. Open the Right Lower Cover [1] and the Right Upper Cover [2].



■ Procedure

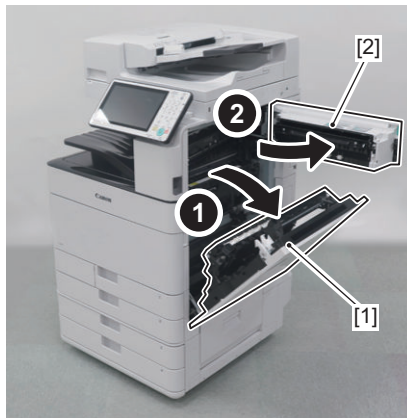
1. Clean the Secondary Transfer Guide [2] with lint-free paper [1] moistened with alcohol.



Cleaning the Feed Contact Guide

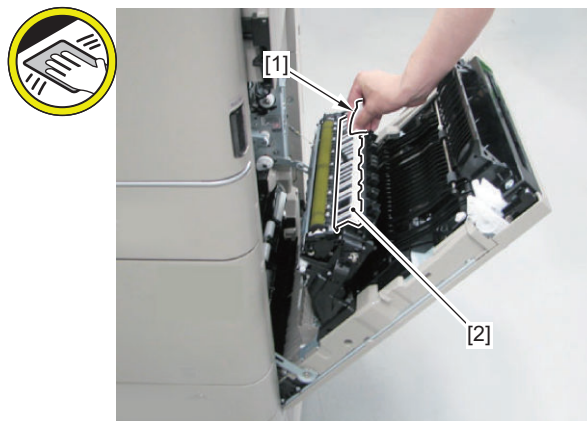
■ Preparation

1. Open the Right Lower Cover [1] and the Right Upper Cover [2].



■ Procedure

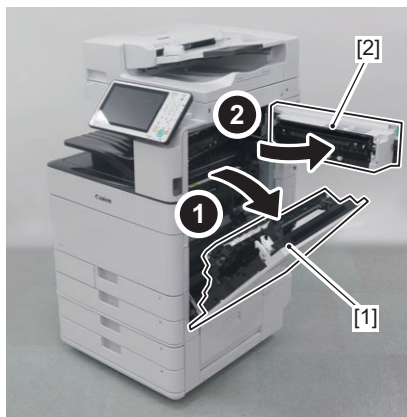
1. Clean the Feed Contact Guide [2] with lint-free paper [1] moistened with alcohol.



Cleaning the Registration Roller

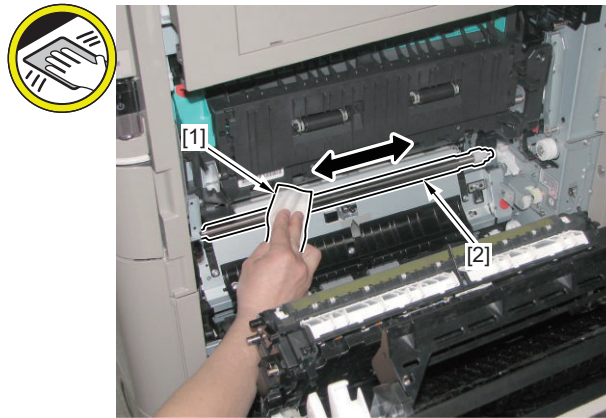
■ Preparation

1. Open the Right Lower Cover [1] and the Right Upper Cover [2].

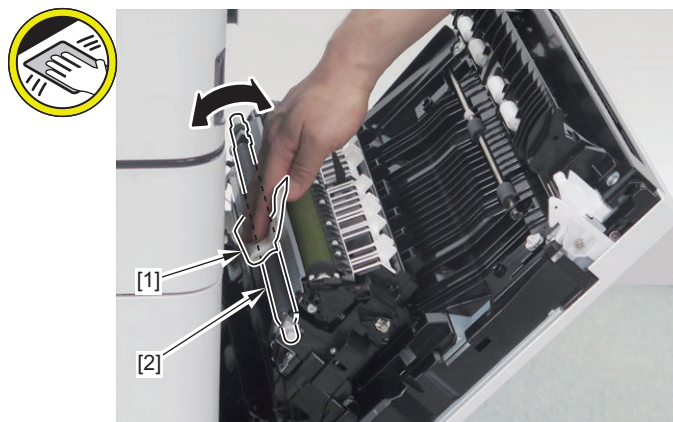


■ Procedure

1. Clean the Registration Roller [2] on the inner side with lint-free paper [1] moistened with alcohol.



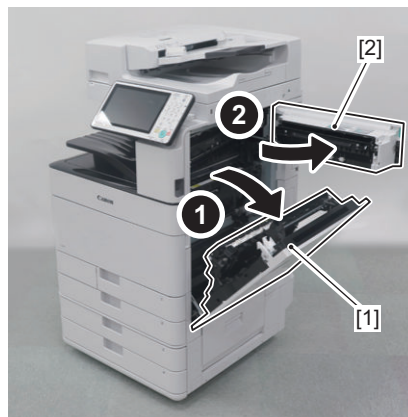
2. Clean the Registration Roller [2] on the outer side with lint-free paper [1] moistened with alcohol.



● Cleaning the Pre-registration Guide Unit

■ Preparation

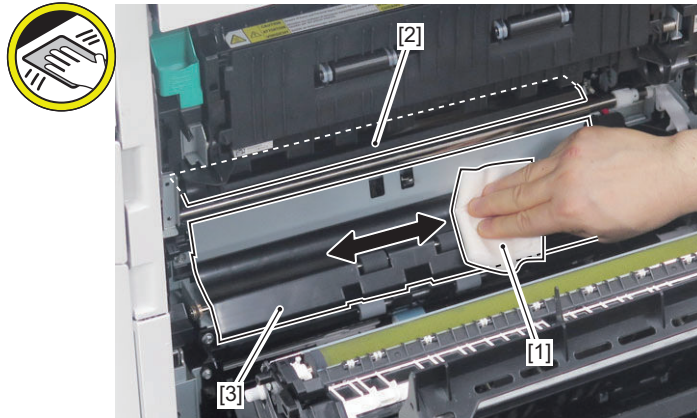
1. Open the Right Lower Cover [1] and the Right Upper Cover [2].



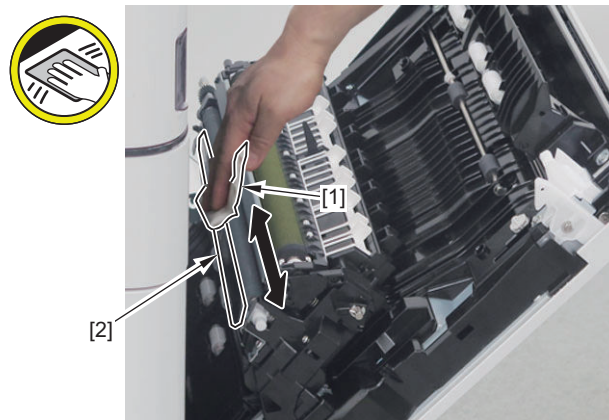
■ Procedure

CAUTION:
Do not soil the ITB.

1. Clean the Secondary Transfer Guide [2] (area covered by black sheet) and the inside of the Pre-registration Guide [3] with lint-free paper [1] moistened with alcohol.



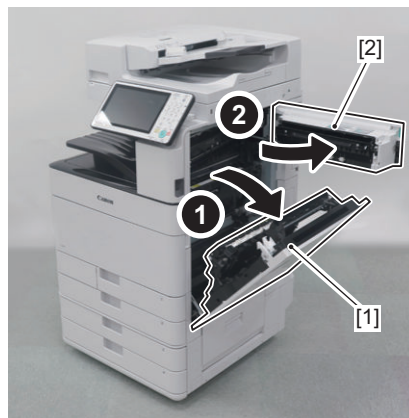
2. Clean the outside of the Pre-registration Guide [2] (area covered by black sheet) with lint-free paper [1] moistened with alcohol.



Cleaning the Registration Scanner Sensor

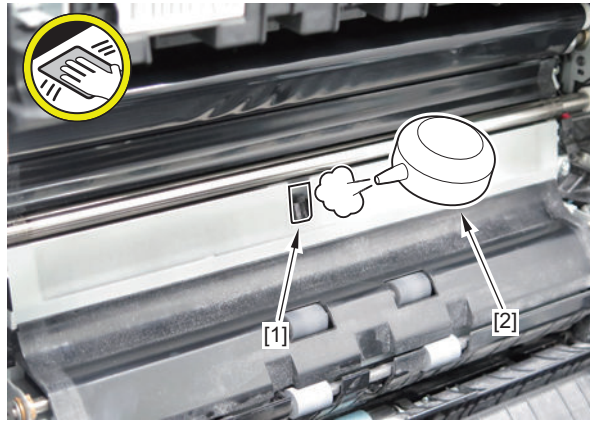
Preparation

1. Open the Right Lower Cover [1] and the Right Upper Cover [2].



■ Procedure

1. Clean the Registration Sensor [1] using the blower [2].



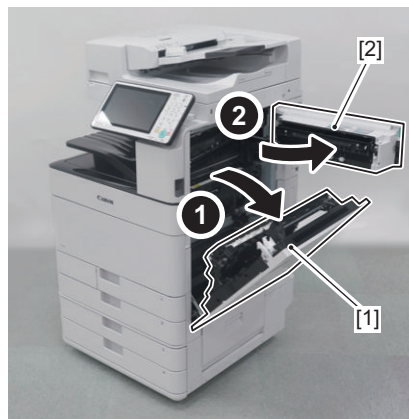
CAUTION:

- Do not clean the Registration Sensor [1] with dry lint-free paper which causes electrostatic charge on the sensor lens and paper dust may be easily adsorbed on it.
- Do not clean the Registration Sensor [1] with lint-free paper moistened with alcohol or the sensor lens may become clouded.

● Cleaning the Between-Cassette 1/2 Sensor

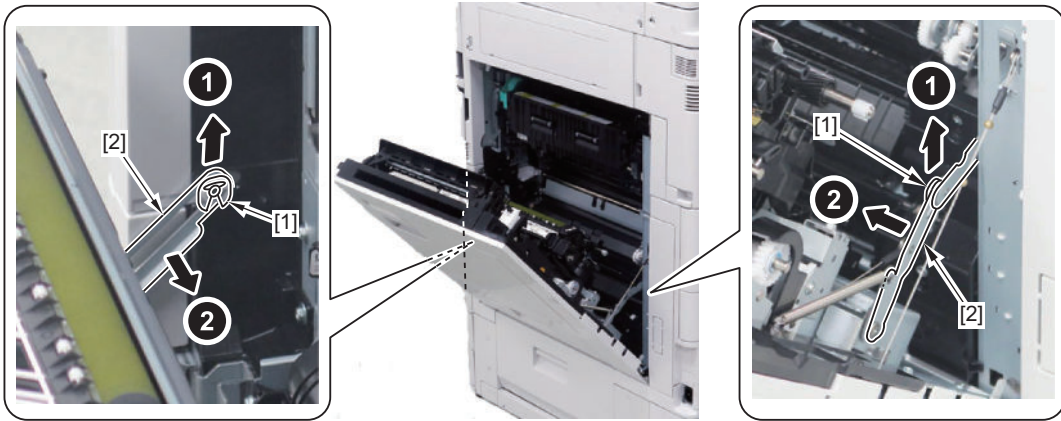
■ Preparation

1. Open the Right Lower Cover [1] and the Right Upper Cover [2].

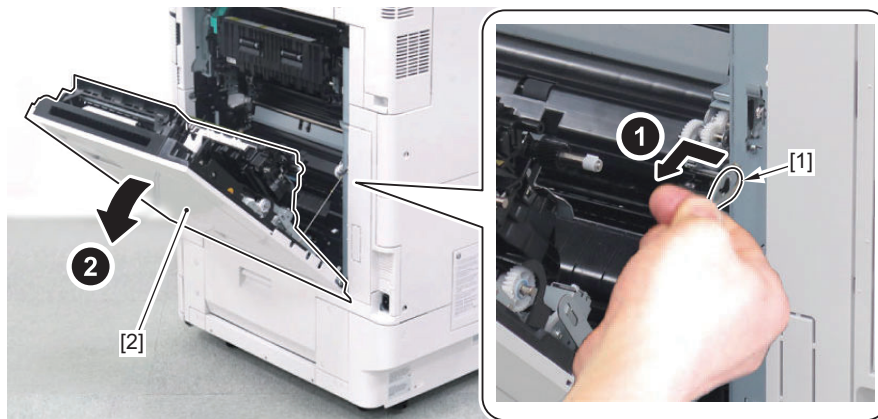


■ Procedure

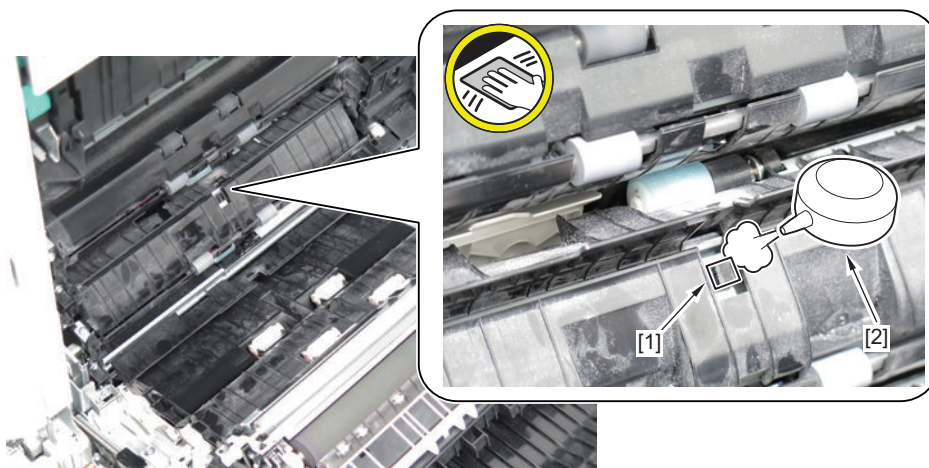
1. Remove the E-rings [1] on the front side and rear side, and disengage the Arm [2].



2. Remove the wire [1] from the machine and further open the Right Lower Cover [2].



3. Clean the Between-Cassette 1/2 Sensor [1] using the blower [2].



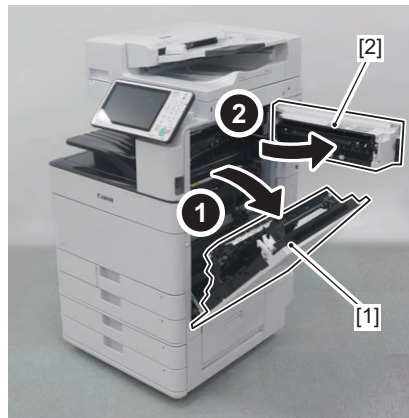
CAUTION:

- Do not clean the Between-Cassette 1/2 Sensor [1] with dry lint-free paper which causes electrostatic charge on the sensor lens and paper dust may be easily adsorbed on it.
- Do not clean the Between-Cassette 1/2 Sensor [1] with lint-free paper moistened with alcohol or the sensor lens may become clouded.

Cleaning the Fixing Delivery Guide

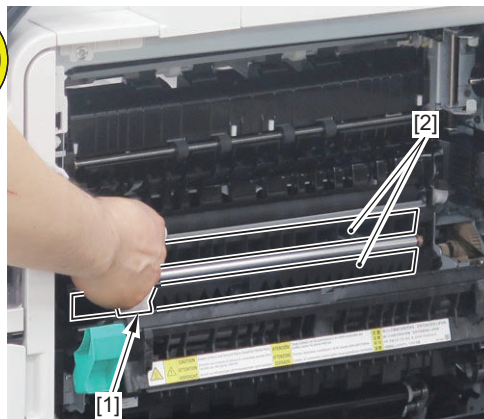
■ Preparation

1. Open the Right Lower Cover [1] and the Right Upper Cover [2].

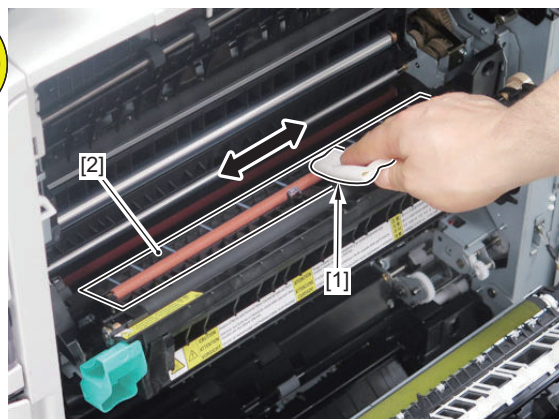


■ Procedure

1. Open the Fixing Delivery Guide.
2. Clean the Fixing Delivery Guide [2] on the inner side with lint-free paper [1] moistened with alcohol.



3. Clean the Fixing Delivery Guide [2] on the outer side with lint-free paper [1] moistened with alcohol.



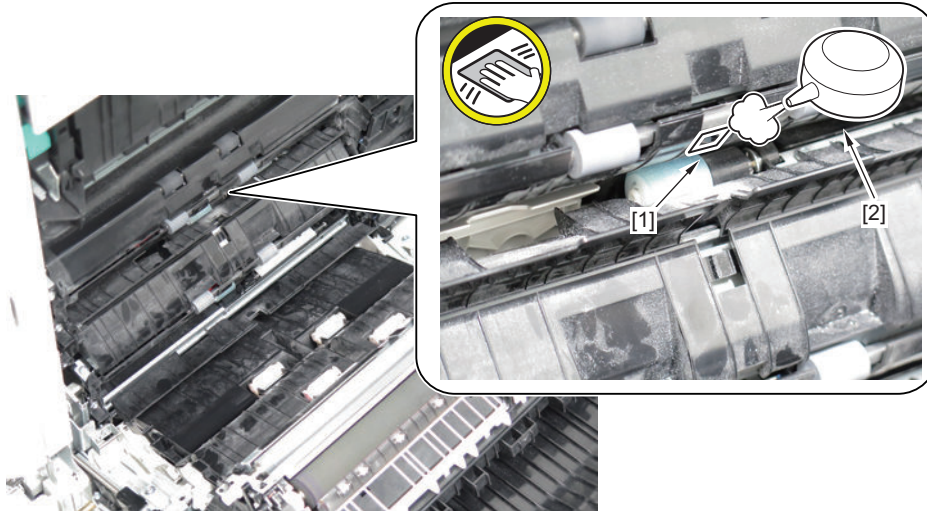
Cleaning the Cassette 1 Pullout Sensor

■ Preparation

1. Open the Right Door.

■ Procedure

1. Clean the Cassette 1 Pullout Sensor [1] using the blower [2].



CAUTION:

- Do not clean the Cassette 1 Pullout Sensor [1] with dry lint-free paper which causes electrostatic charge on the sensor lens and paper dust may be easily adsorbed on it.
- Do not clean the Cassette 1 Pullout Sensor [1] with lint-free paper moistened with alcohol or the sensor lens may become clouded.

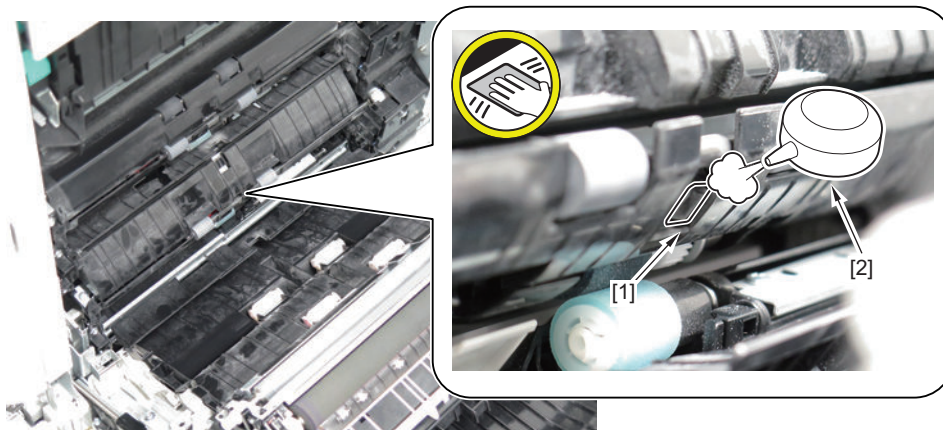
Cleaning the Cassette 2 Pullout Sensor

■ Preparation

1. Open the Right Lower Cover.

■ Procedure

1. Clean the Cassette 2 Pullout Sensor [1] using the blower [2].



CAUTION:

- Do not clean the Cassette 2 Pullout Sensor [1] with dry lint-free paper which causes electrostatic charge on the sensor lens and paper dust may be easily adsorbed on it.
- Do not clean the Cassette 2 Pullout Sensor [1] with lint-free paper moistened with alcohol or the sensor lens may become clouded.

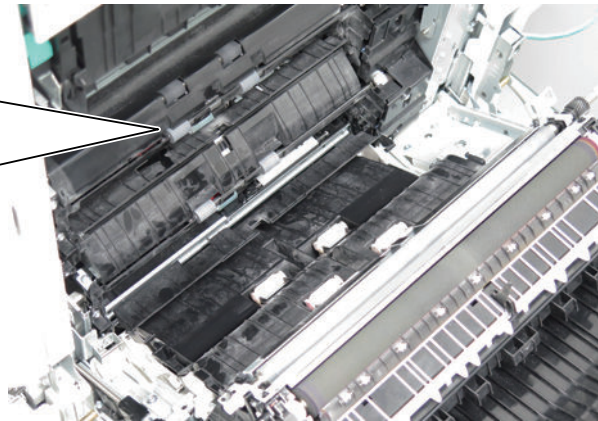
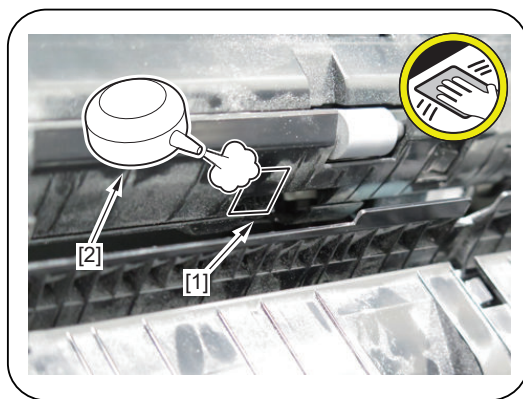
Cleaning the Cassette 1 Pickup Nip Sensor

■ Preparation

1. Open the Right Door.

■ Procedure

1. Clean the Cassette 1 Pickup Nip Sensor [1] using the blower [2].

**CAUTION:**

- Do not clean the Cassette 1 Pickup Nip Sensor [1] with dry lint-free paper which causes electrostatic charge on the sensor lens and paper dust may be easily adsorbed on it.
- Do not clean the Cassette 1 Pickup Nip Sensor [1] with lint-free paper moistened with alcohol or the sensor lens may become clouded.

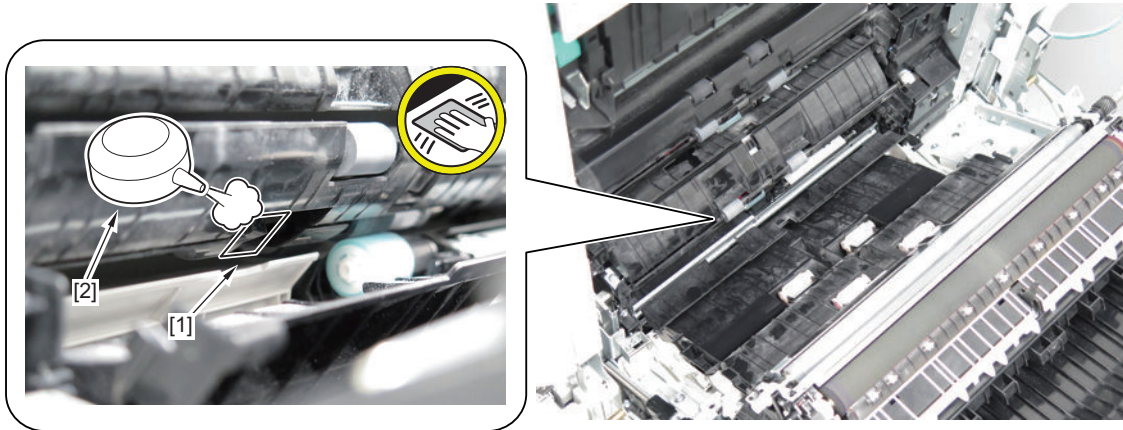
Cleaning the Cassette 2 Pickup Nip Sensor

■ Preparation

1. Open the Right Lower Cover.

■ Procedure

1. Clean the Cassette 2 Pickup Nip Sensor [1] using the blower [2].



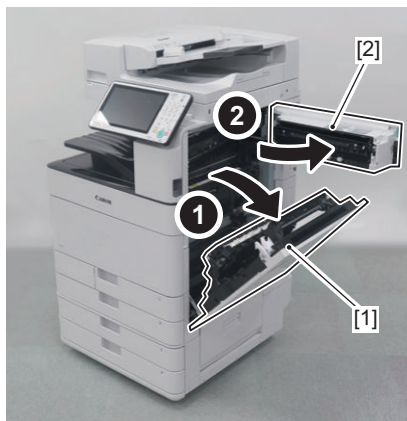
CAUTION:

- Do not clean the Cassette 2 Pickup Nip Sensor [1] with dry lint-free paper which causes electrostatic charge on the sensor lens and paper dust may be easily adsorbed on it.
- Do not clean the Cassette 2 Pickup Nip Sensor [1] with lint-free paper moistened with alcohol or the sensor lens may become clouded.

● Cleaning the Fixing Rear Roller

■ Preparation

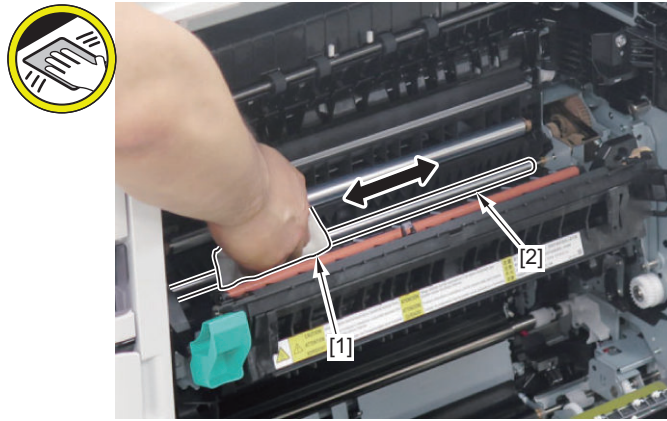
1. Open the Right Lower Cover [1] and the Right Upper Cover [2].



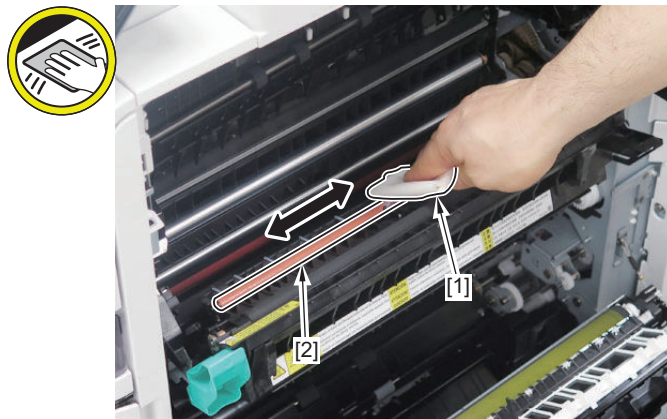
■ Procedure

1. Open the Fixing Delivery Guide.

2. Clean the Fixing Rear Roller [2] on the inner side with lint-free paper [1] moistened with alcohol.



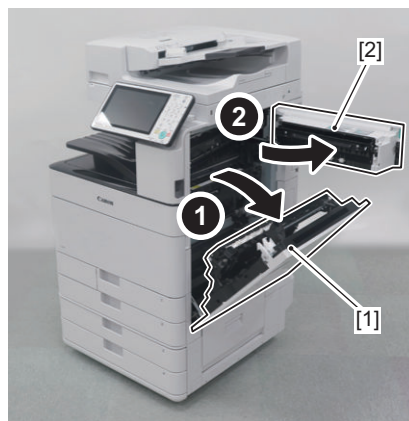
3. Clean the Fixing Rear Roller [2] on the outer side with lint-free paper [1] moistened with alcohol.



Cleaning the Fixing Delivery Roller

■ Preparation

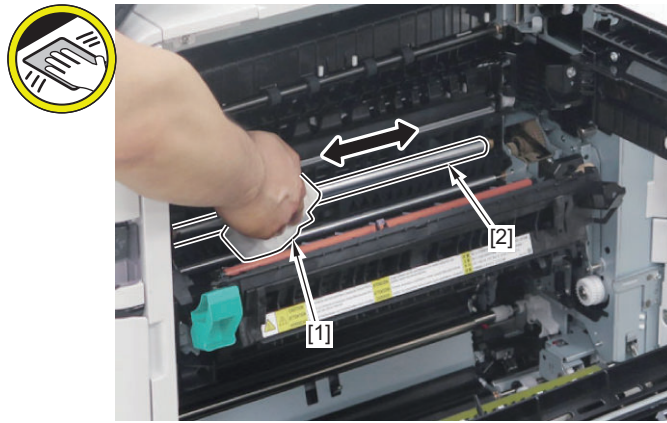
1. Open the Right Lower Cover [1] and the Right Upper Cover [2].



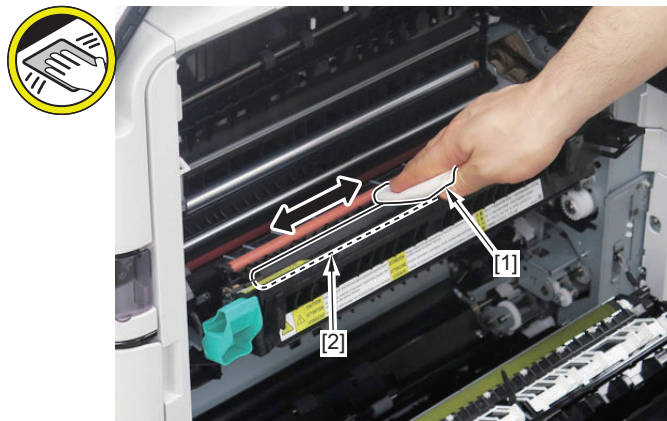
■ Procedure

1. Open the Fixing Delivery Guide.

2. Clean the Fixing Delivery Roller [2] on the inner side with lint-free paper [1] moistened with alcohol.



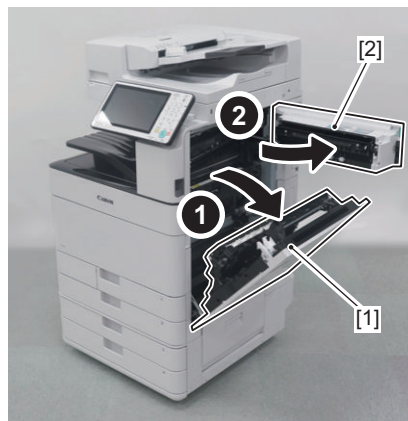
3. Clean the Fixing Delivery Roller [2] on the outer side with lint-free paper [1] moistened with alcohol.



● Removing the Duplex Feed Upper Rollers

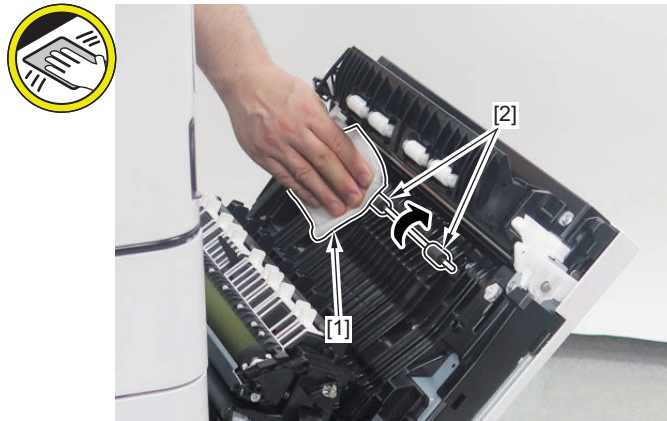
■ Preparation

1. Open the Right Lower Cover [1] and the Right Upper Cover [2].



■ Procedure

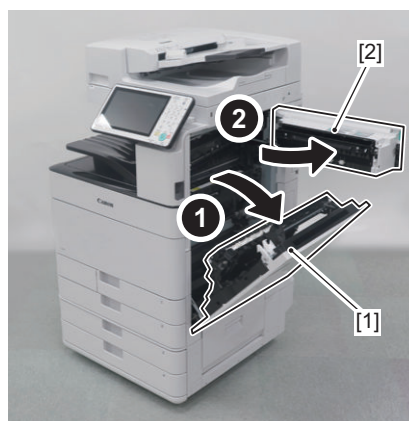
1. Clean the Duplex Feed Upper Roller [2] and Roller [3] with lint-free paper [1] moistened with alcohol.



● Removing the Duplex Feed Lower Roller

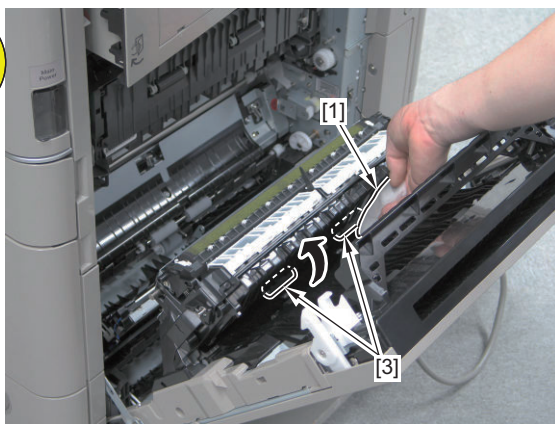
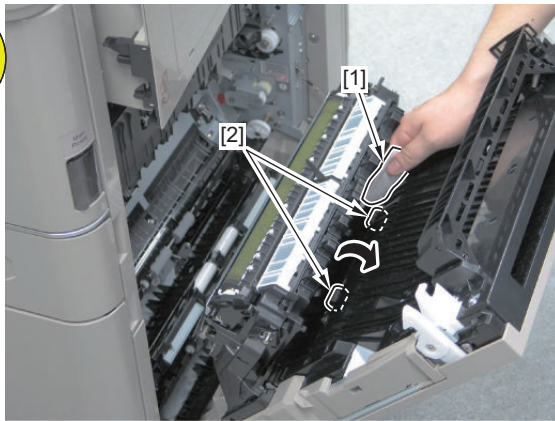
■ Preparation

1. Open the Right Lower Cover [1] and the Right Upper Cover [2].



■ Procedure

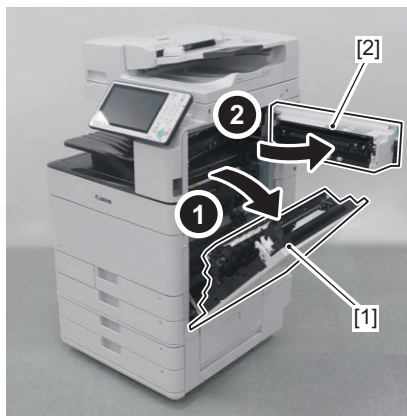
1. Clean the Duplex Feed Lower Roller [2] and Roller [3] with lint-free paper [1] moistened with alcohol.



● Cleaning the Second/Third Delivery Roller, Roller and First, Second, and Third Delivery Rollers

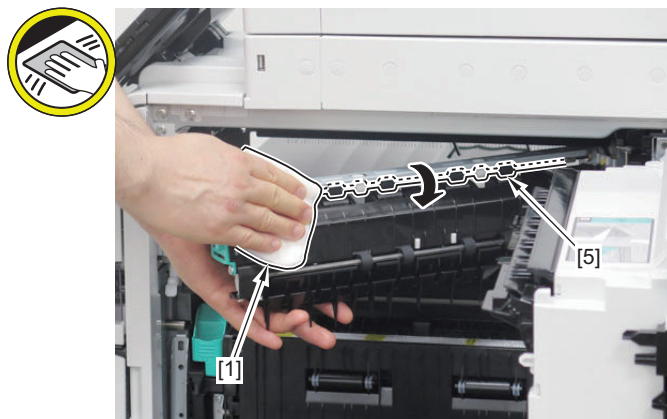
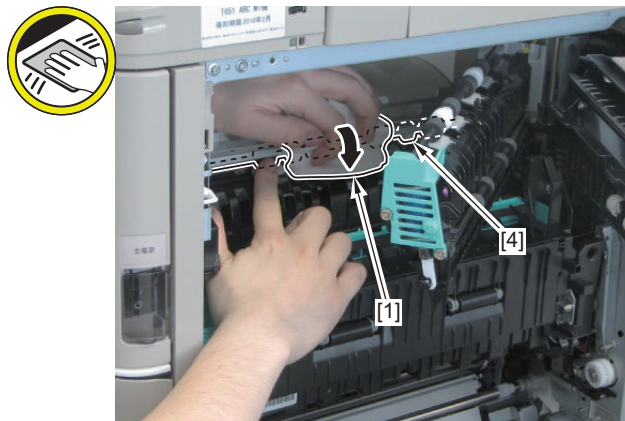
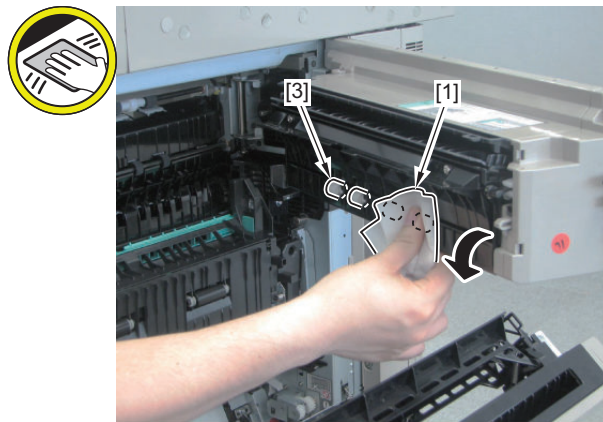
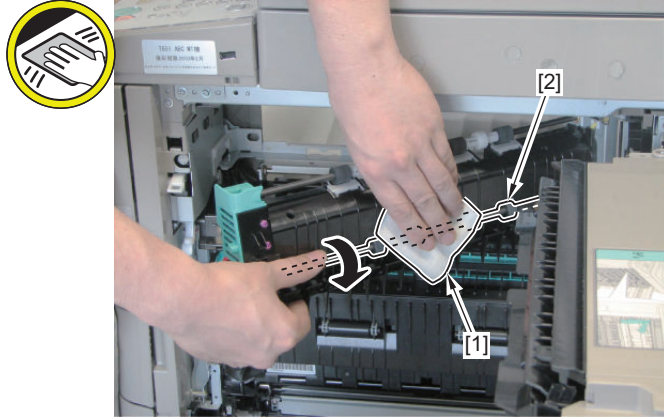
■ Preparation

1. Open the Right Lower Cover [1] and the Right Upper Cover [2].

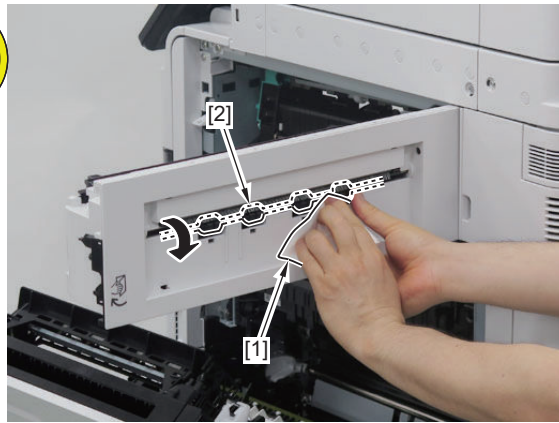


■ Procedure

1. Clean the Second/Third Delivery Roller [2], Roller [3], First Delivery Roller [4], and Second Delivery Roller [5] with lint-free paper [1] moistened with alcohol.



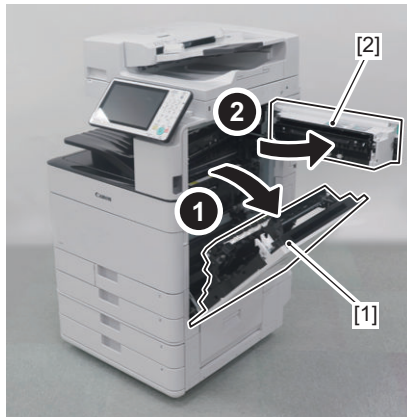
2. Clean the Third Delivery Roller [2] with lint-free paper [1] moistened with alcohol.



● Removing the Right Rear Cover 1

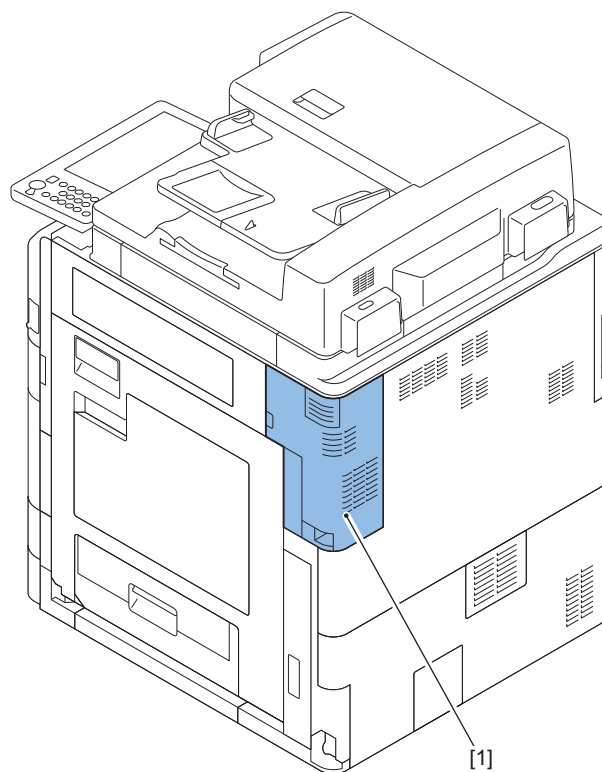
■ Procedure

1. Open the Right Lower Cover [1] and the Right Upper Cover [2].



2. Remove the Right Rear Cover 1 [1].

- 1 Screw (RS Tightening; M4)
- 2 Screws (TP; M3)
- 1 Claw

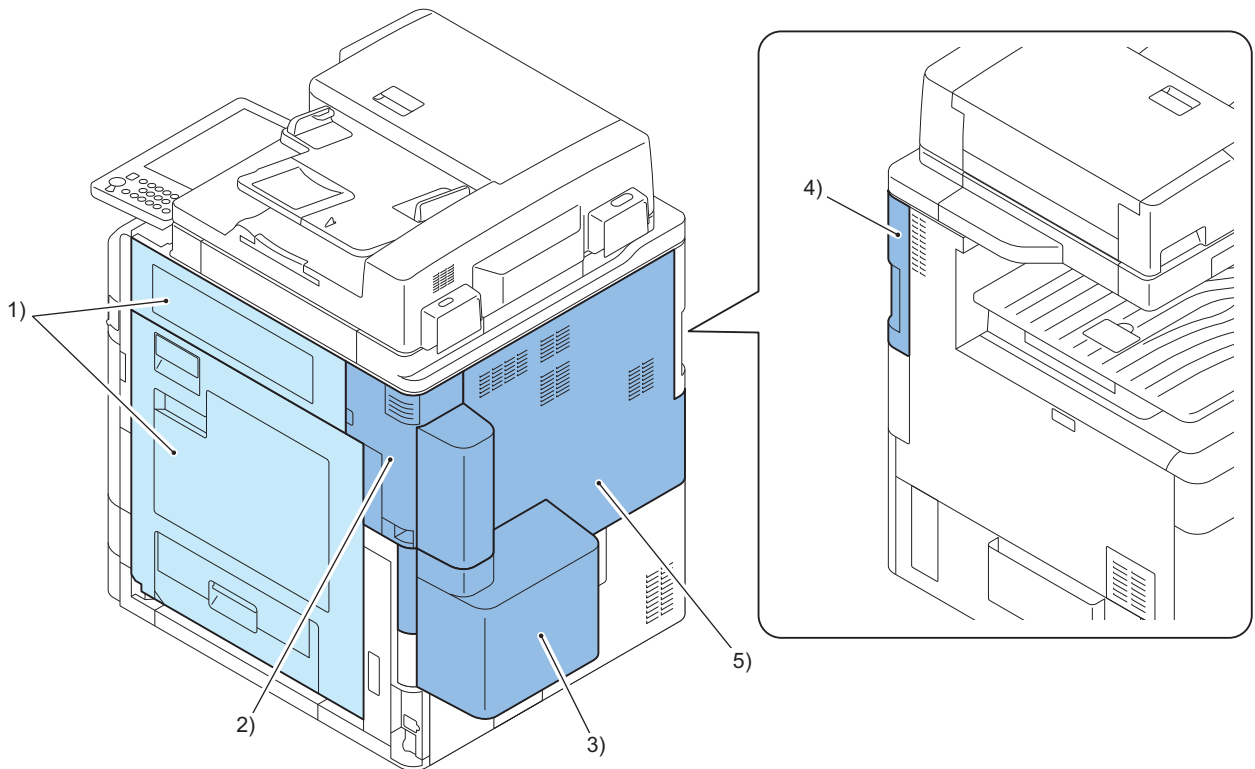


• For the Duct Model (EUR only)

1. Open the Right Lower Cover [1] and the Right Upper Cover [2].

2. Removing the Rear Upper Cover

- 1 Rubber Cap
- 4 Screws
- 1 Claw

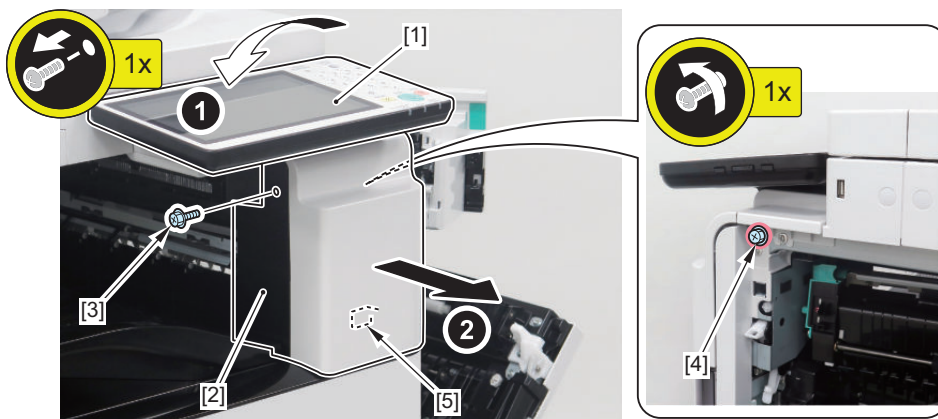


Removing the Right Front Upper Cover Unit

■ Procedure

1. Pull up the Control Panel [1] and remove the Right Front Cover [2].

- 1 Screw [3] (to remove)
- 1 Screw [4] (to loosen)
- 1 Claw [5]

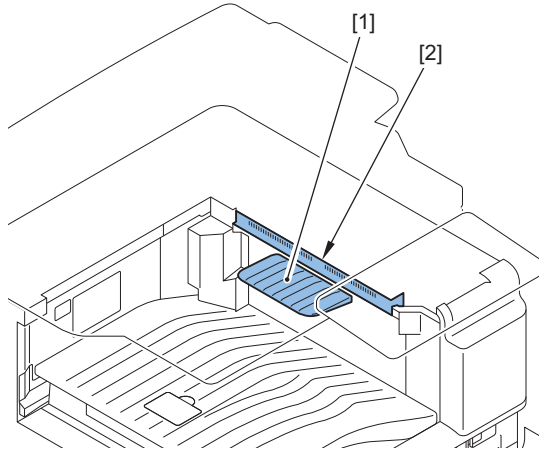


● Removing the Reverse Backend Guide and Inner Output Cover

■ Procedure

1. Remove the Reverse Backend Guide [1] and Inner Output Cover [2].

- 1 Screw
- 2 Hooks



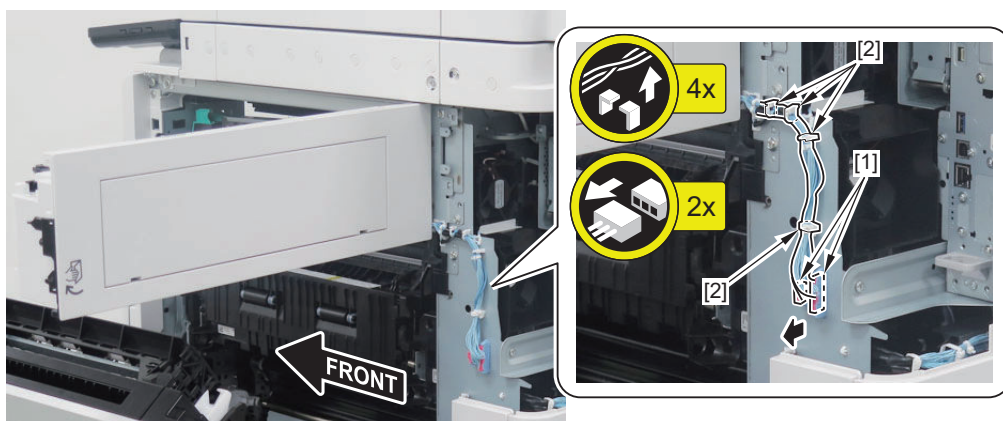
● Removing the Second/Third Delivery Unit

■ Preparation

1. Removing the Right Rear Cover 1 “[Removing the Right Rear Cover 1](#)” on page 417
2. Removing the Front Upper Cover Unit “[Removing the Right Front Upper Cover Unit](#)” on page 419
3. Removing the Reverse Backend Guide and Inner Output Cover “[Removing the Reverse Backend Guide and Inner Output Cover](#)” on page 420

■ Procedure

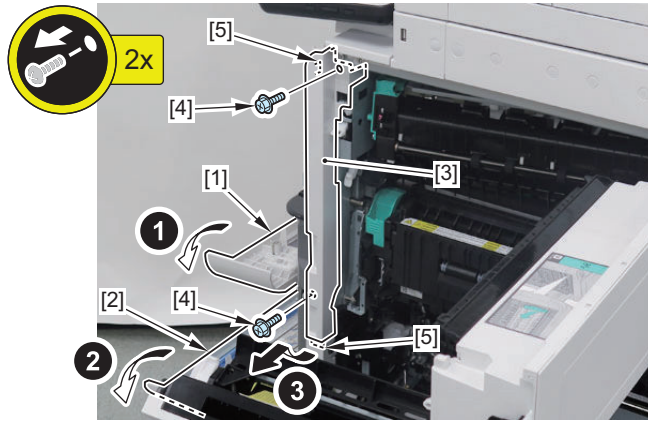
1. Disconnect the 2 connectors [1] and remove the 4 Wire Saddles [2].



2. Open the Toner Replacement Cover 1 [1] and the Front Cover [2].

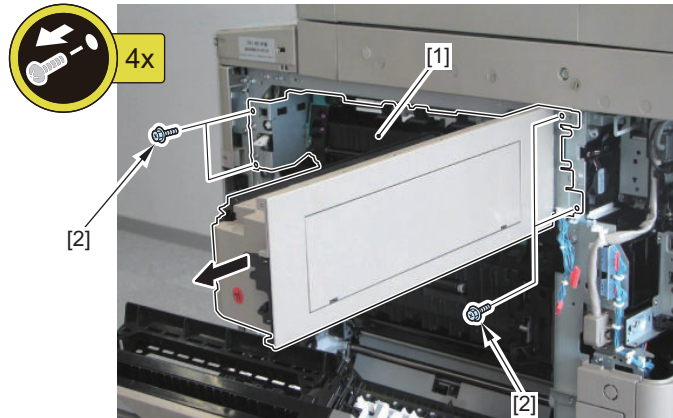
3. Remove the Right Front Cover 1 [3].

- 2 Screws [4]
- 2 Hooks [5]



4. Remove the Second/Third Delivery Unit [1].

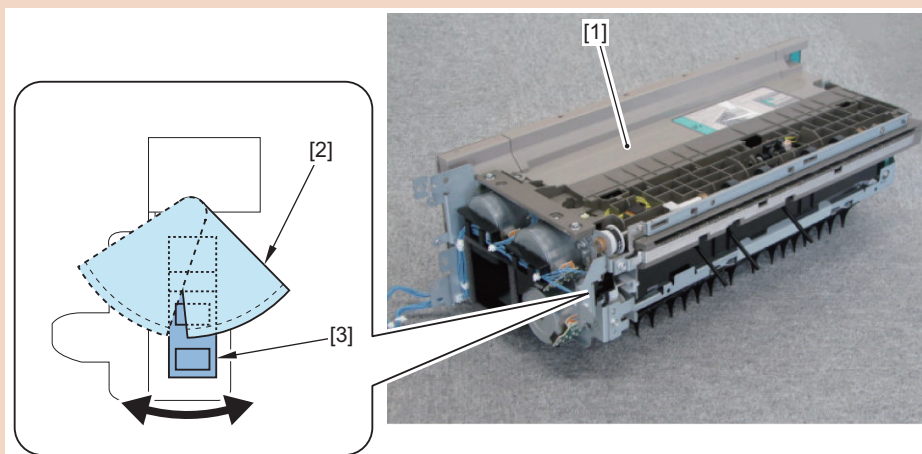
- 4 Screws [2]



CAUTION:

After installing the Second/Third Delivery Unit [1], be sure to check that the Sensor Flag [2] works.

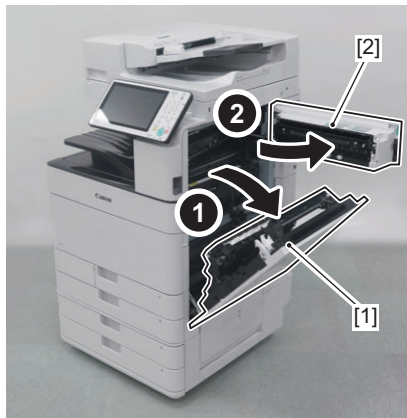
- Second Delivery Sensor [3]: Refer to I/O > DC-CON > P023 > 9



● Removing the First Delivery Unit

■ Preparation

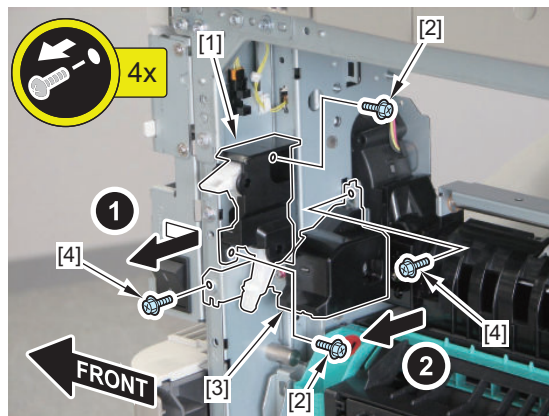
1. Open the Right Lower Cover [1] and the Right Upper Cover [2].



2. Removing the Right Rear Cover 1. [“Removing the Right Rear Cover 1” on page 417](#)
3. Removing the Front Upper Cover Unit. [“Removing the Right Front Upper Cover Unit” on page 419](#)
4. Removing the Reverse Backend Guide and Inner Output Cover. [“Removing the Reverse Backend Guide and Inner Output Cover” on page 420](#)
5. Removing the Second/Third Delivery Unit. [“Removing the Second/Third Delivery Unit” on page 420](#)

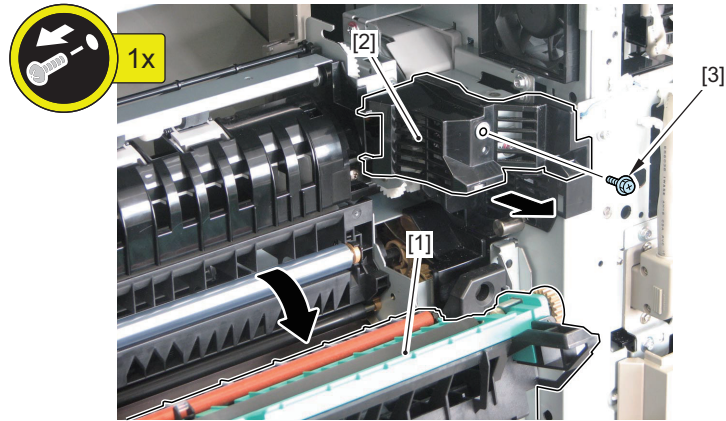
■ Procedure

1. Remove the Right Upper Cover Latch [1].
 - 2 Screws [2]
2. Remove the Right Lower Cover Latch [3].
 - 2 Screws [4]



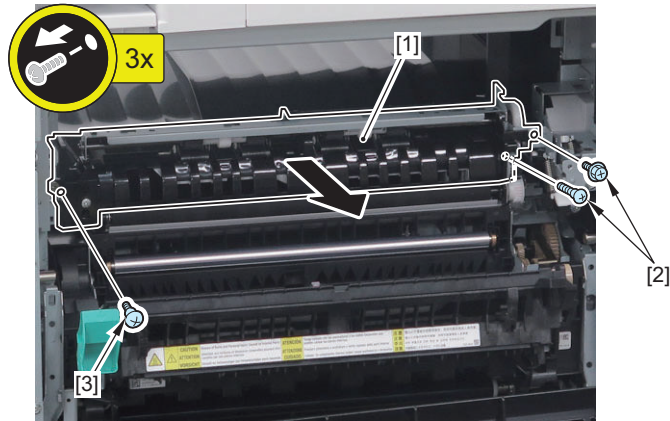
3. Open the Fixing Unit [1], and remove the Fixing Gear Cover [2].

- 1 Screw [3]



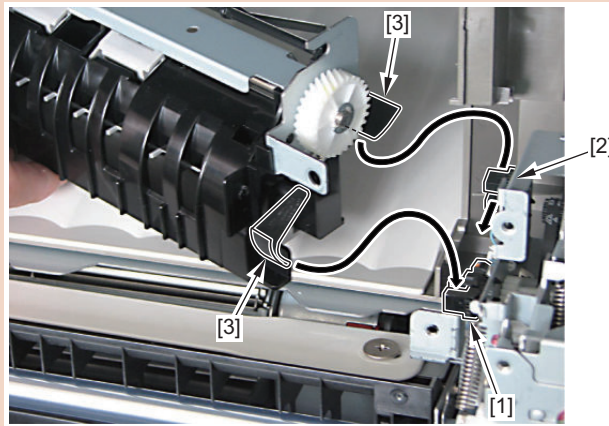
4. Remove the First Delivery Unit [1].

- 2 Screws [2]
- 1 Stepped Screw [3]



CAUTION:

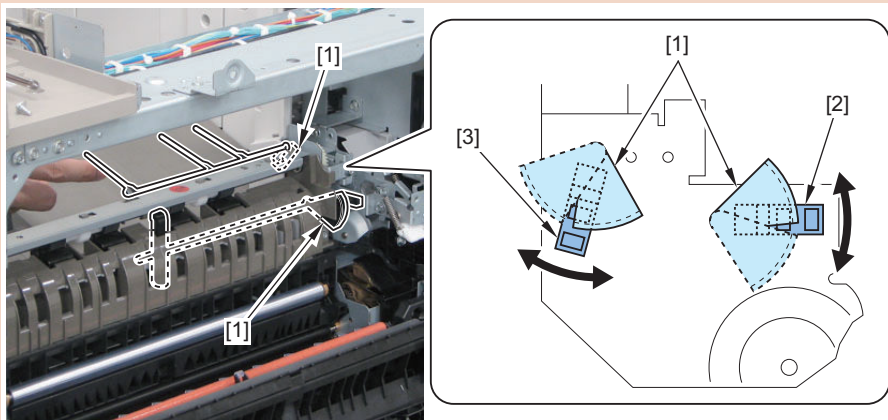
At the time of installation, be sure to align the First Delivery Sensor [1] and First Delivery Tray Full Sensor [2] with the Sensor Flags [3].



CAUTION:

After installing the First Delivery Unit, check that the 2 Sensor Flags [1] work.

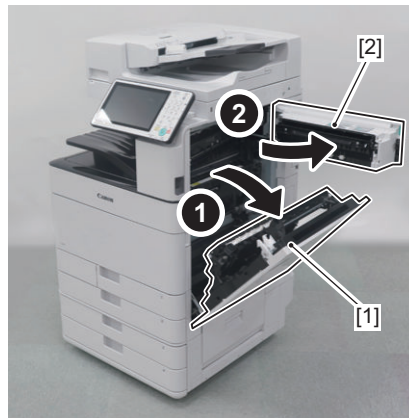
- First Delivery Sensor [2]: Refer to I/O > DC-CON > P026 > 12
- First Delivery Tray Full Sensor [3]: Refer to I/O > DC-CON > P032 > 0



Removing the Duplex Unit

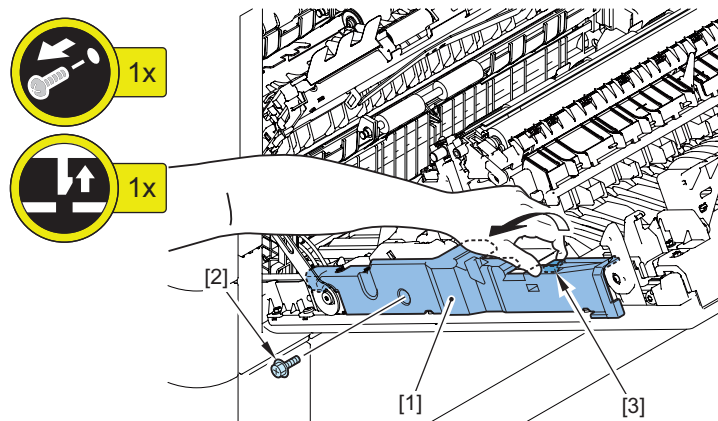
Preparation

1. Open the Right Lower Cover [1] and the Right Upper Cover [2].

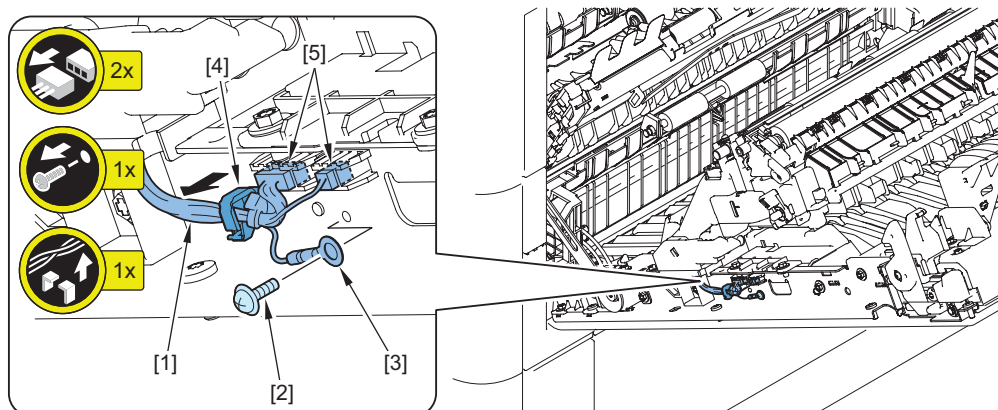


Procedure

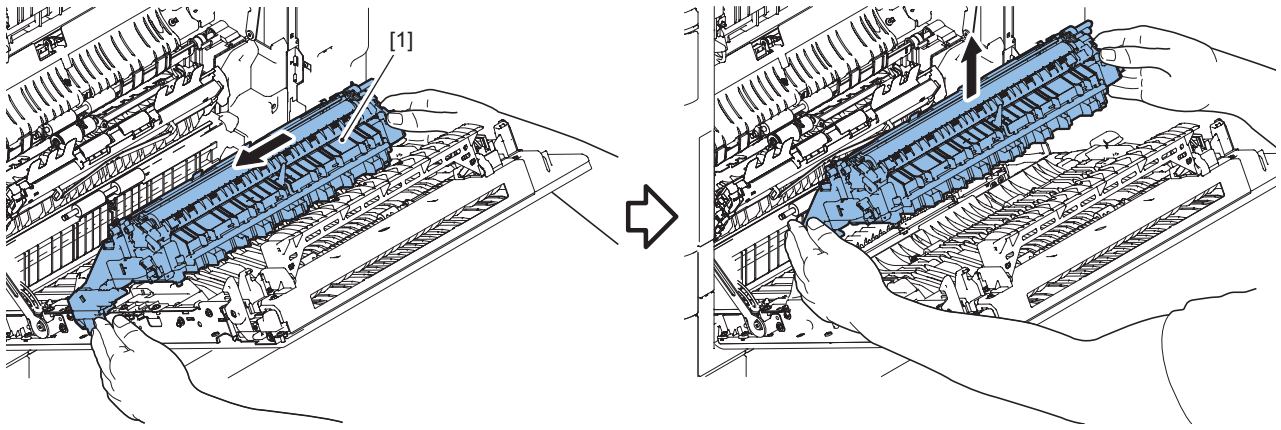
1. Remove the Front Cover [1] of the Right Unit.
 - 1 Screw [2]
 - 1 Claw [3]



2. Free the harness [1].
 - 1 Screw [2]
 - 1 Grounding Wire [3]
 - 1 Wire Saddle [4]
 - 2 Connectors [5]

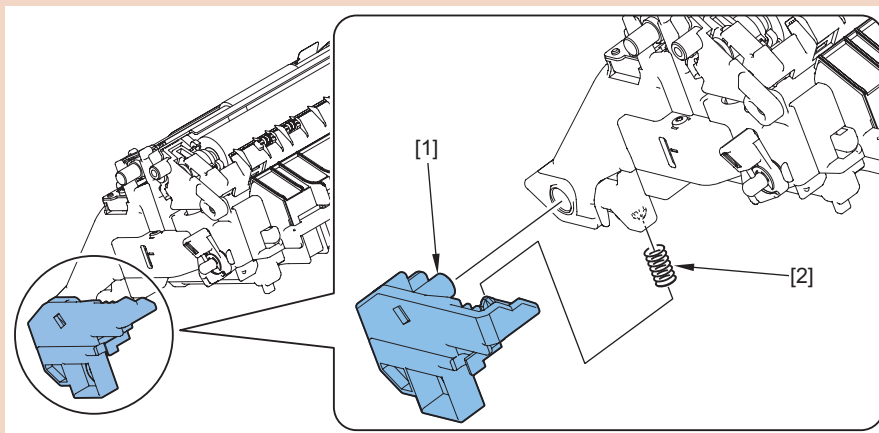


3. Remove the Duplex Unit [1] while holding its sides.



CAUTION:

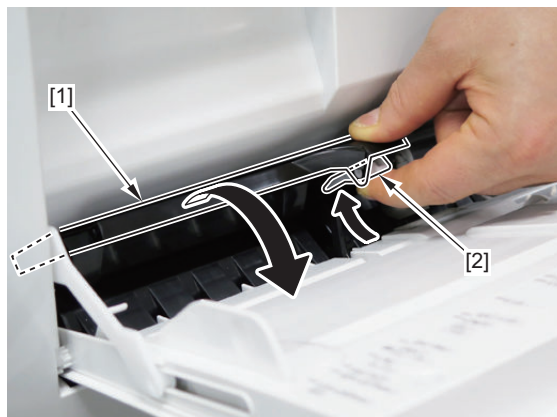
Take care when removing the Duplex Unit, as the Right Door Rotation Hinge [1] and spring [2] easily become disassembled.



● Removing the Multi-purpose Tray/Feed/Separation Roller

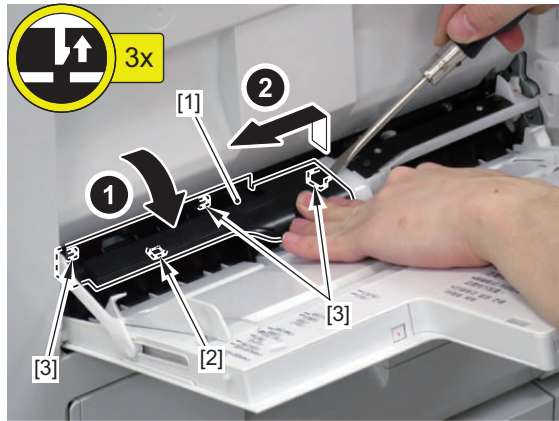
■ Procedure

1. Open the Multi-purpose Tray Pickup Tray.
2. Let the shutter [2] escape upwards by pushing down the MP Pickup Roller [1].

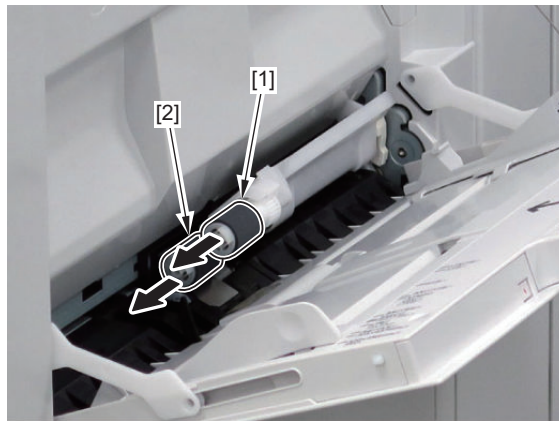


3. Maintaining the situation of step 2, remove the Multi-purpose Tray Pickup Roller Cover [1].

- 1 Hook [2]
- 3 Claws [3]

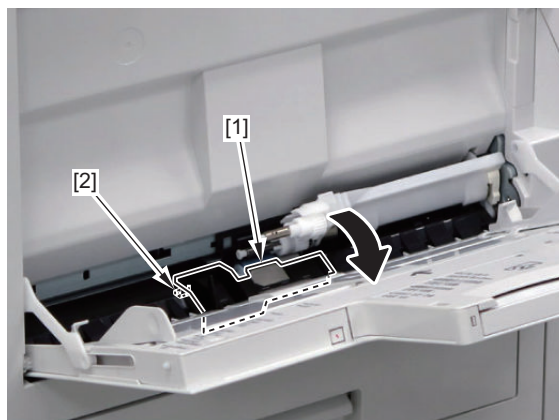


4. Remove the Multi-purpose Tray Pickup Roller [1] and the Feed Roller [2].

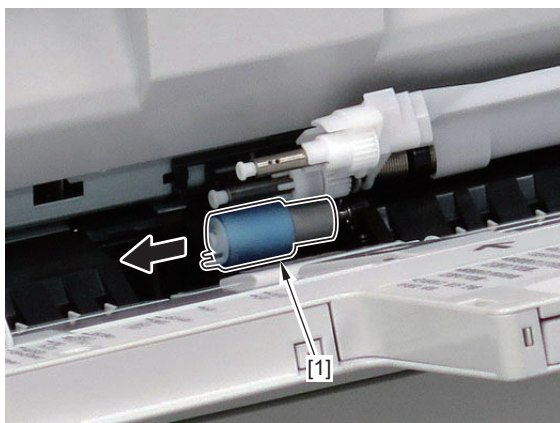


5. Remove the Multi-purpose Tray Separation Roller Guide [1].

- 1 Hook [2]



6. Pull out the MP Separation Roller [1] from the shaft with the shaft as the center.



NOTE:

If you have accidentally removed the shaft together with the roller, install it from the front side.

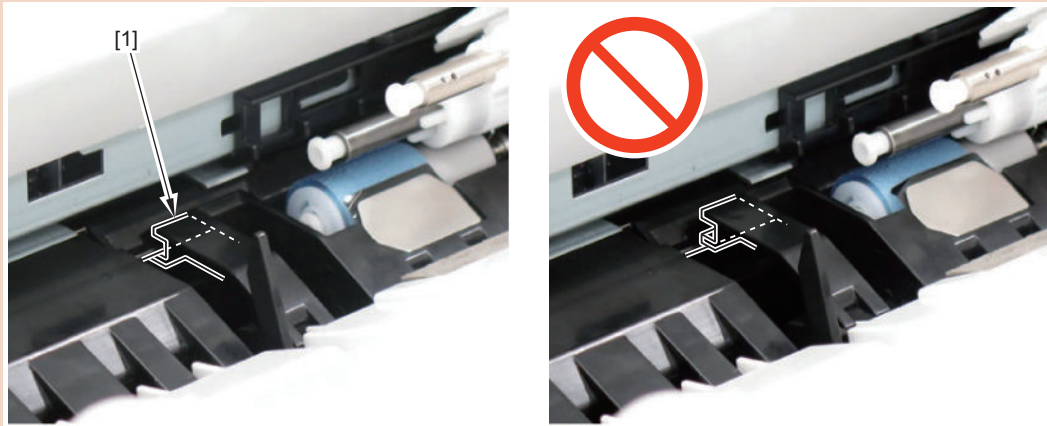
NOTE:

Parts counter: COPIER > COUNTER > DRBL-1 > M-PU-RL / M-SP-RL / M-FD-RL

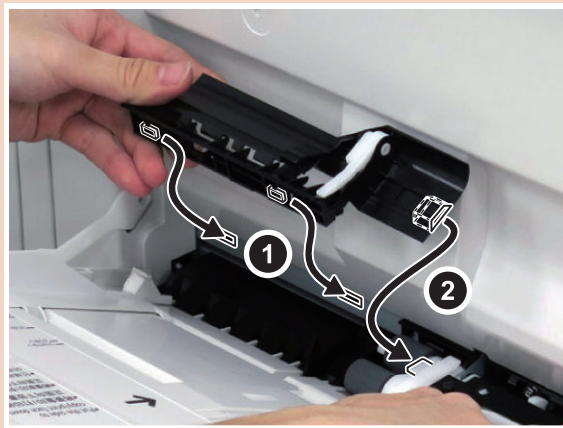
CAUTION:

Points to Note at Installation:

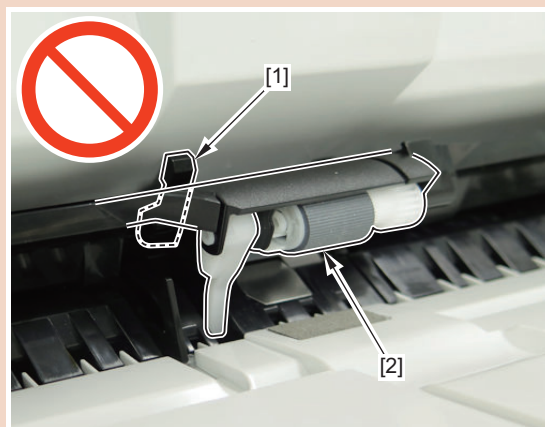
1. Because a jam may occur when the MP Separation Roller Guide [1] is not inserted properly, be sure to insert it all the way to the correct position.



2. When installing the Multi-purpose Tray Pickup Roller Cover, be sure to align (2) with the 3 bosses and 1 claw after aligning (1) with the boss.



3. In order to prevent jams, check that the Shutter Link Lever [1] is under the Multi-purpose Tray Pickup Roller [2].

**CAUTION:**

Clear the parts counter in the following service mode after replacing the Multi-purpose Pickup Roller.

- COPIER > COUNTER > DRBL-1 > M-PU-RL

Clear the parts counter in the following service mode after replacing the Multi-purpose Feed Roller.

- COPIER > COUNTER > DRBL-1 > M-FD-RL

Clear the parts counter in the following service mode after replacing the Multi-purpose Separation Roller .

- COPIER > COUNTER > DRBL-1 > M-SP-RL

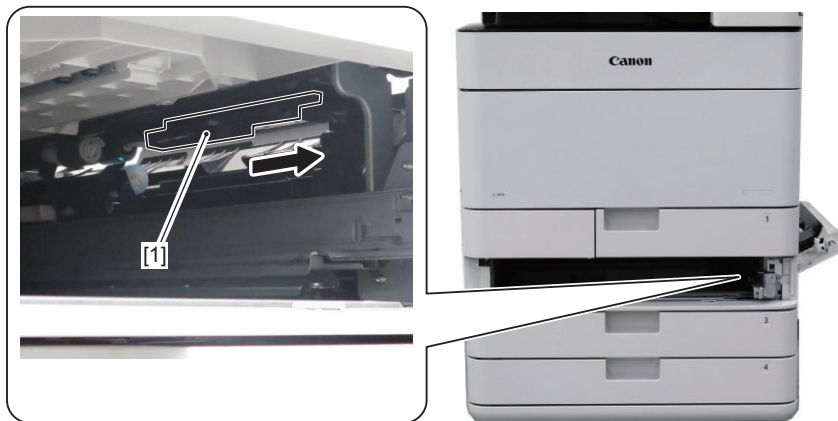
● Removing the Pickup/Delivery/Separation Roller (Cassette 1/2)

■ Preparation

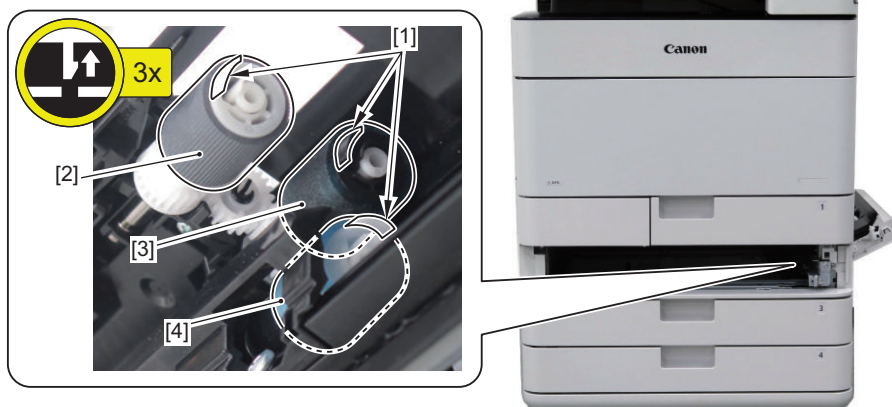
1. Open the Cassette Right Upper Cover.
2. Remove the cassette (each paper source).

■ Procedure

1. Move the Pickup Guide Holder [1].



2. Pull out the Pickup Roller [2]/Feed Roller [3]/Separation Roller [4] while holding down the claw [1].
 - 3 Claws [1]



CAUTION:

Clear the parts counter in the following service mode after replacing the Roller.

Pickup Roller parts counter (Cassette 1/Cassette 2):

- Service Mode > COPIER > COUNTER > DRBL-1 > C1-PU-RL
- Service Mode > COPIER > COUNTER > DRBL-1 > C2-PU-RL

Feed Roller parts counter (Cassette 1/Cassette 2):

- Service Mode > COPIER > COUNTER > DRBL-1 > C1-FD-RL
- Service Mode > COPIER > COUNTER > DRBL-1 > C2-FD-RL

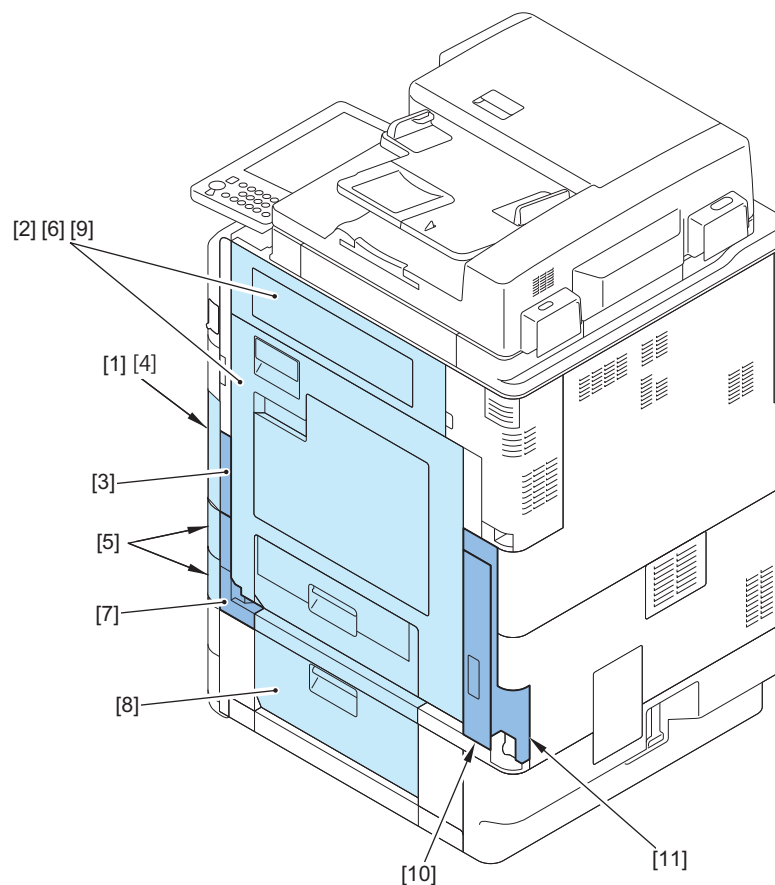
Separation Roller parts counter (Cassette 1/Cassette 2):

- Service Mode > COPIER > COUNTER > DRBL-1 > C1-SP-RL
- Service Mode > COPIER > COUNTER > DRBL-1 > C2-SP-RL

Removing the Right Door

■ Preparation

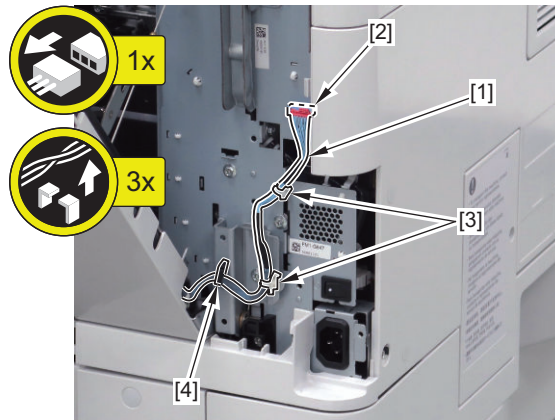
1. Open the Front Cover.
2. Open the Third Delivery Frame Cover and Right Door Unit.
3. Remove the Right Handle Cover (Front)
4. Close the Front Cover.
5. Pull out the Cassette 1 and Cassette 2.
6. Close the Third Delivery Frame Cover and Right Door Unit.
7. Remove the Right Front Cover.
 - 2 Screws
 - 2 Bosses
8. Open the Cassette Feeding Unit Right Door. (When the Cassette Feeding Unit is installed.)
9. Open the Third Delivery Frame Cover and Right Door Unit.
10. Remove the Right Handle Cover (Rear).
11. Remove the Right Rear Cover 2.
 - 2 Screws



■ Procedure

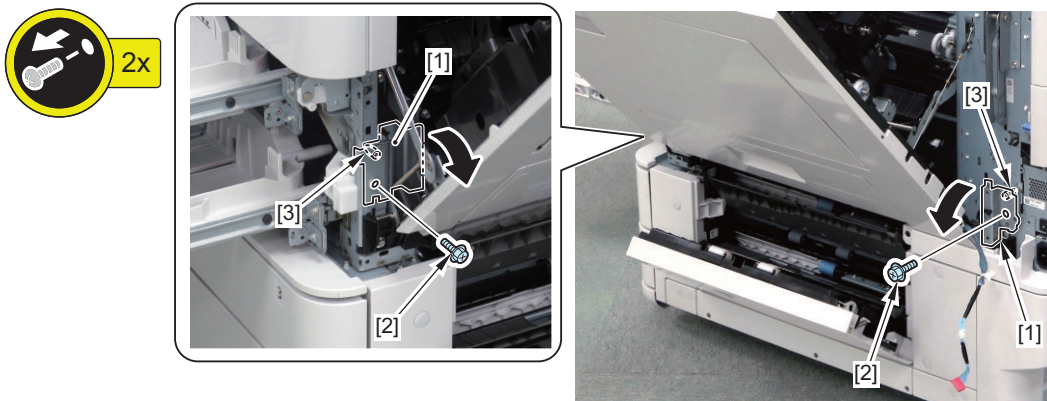
1. Free the harness [1].

- 1 Connector [2]
- 2 Reuse Bands [3]
- 1 Wire Saddle [4]

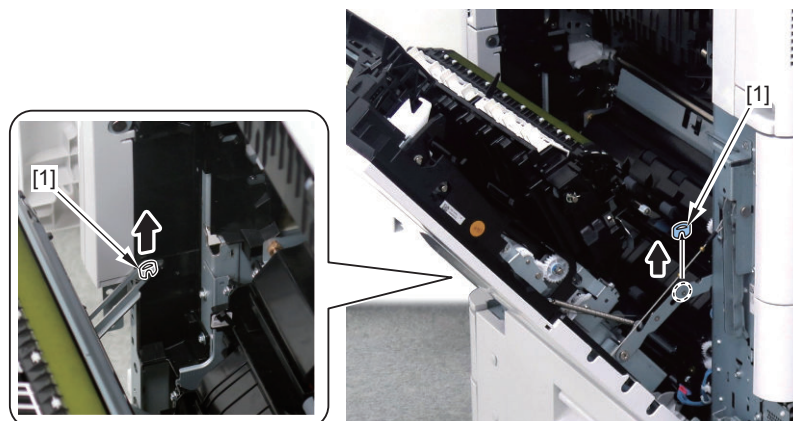


2. Turn the 2 Fixation Members [1] toward the front.

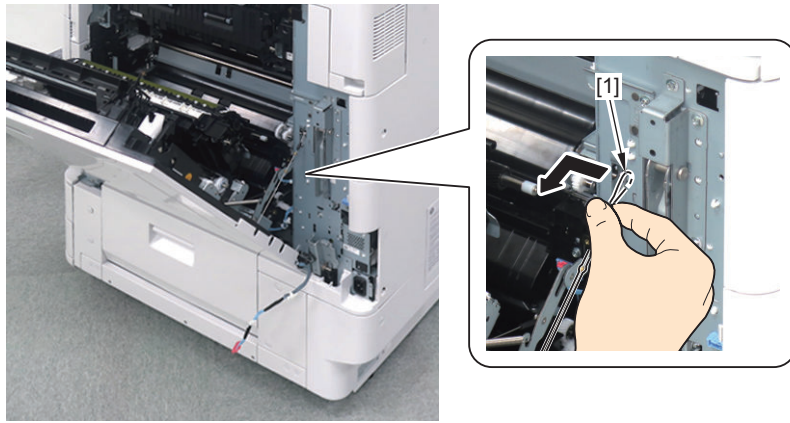
- 2 Screws [2]
- 2 Protrusions [3]



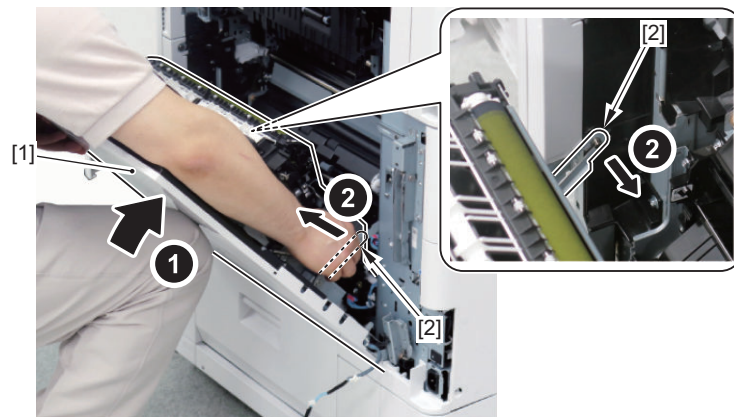
3. Remove the 2 E-rings [1] on the front side and rear side.



4. Remove the wire [1] from the host machine.

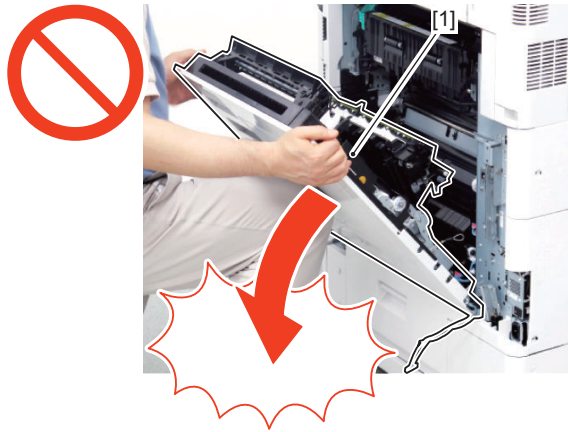


5. While pressing the Right Door [1], release the 2 arms [2].



6. Remove the Right Door [1].**CAUTION:**

The Right Door [1] is heavy, so be careful not to drop it when removing it.



● Removing the Cassette 1/2 Pickup Unit

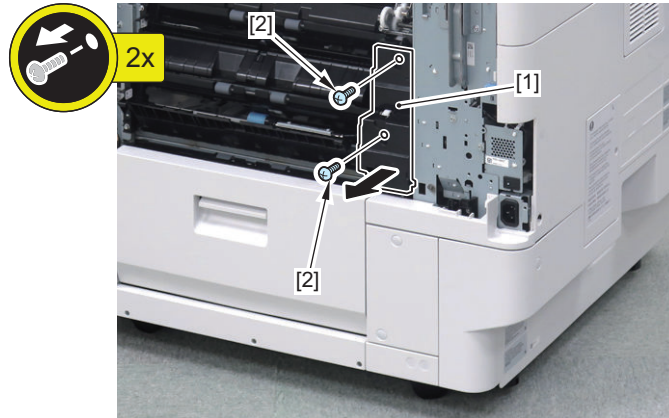
■ Preparation

1. Pull out the Cassettes 1 and 2.
2. Removing the Right Lower Cover "[Removing the Right Door](#)" on page 431

■ Procedure

1. Remove the Connector Cover [1].

- 2 Screws [2]

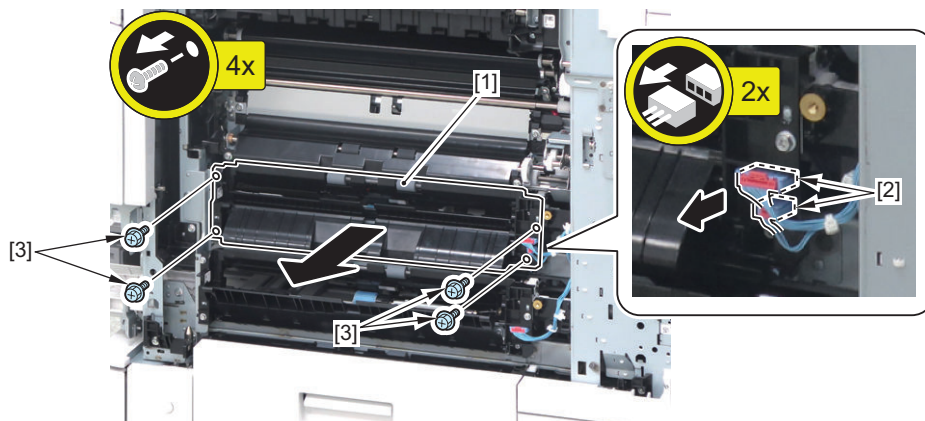


NOTE:

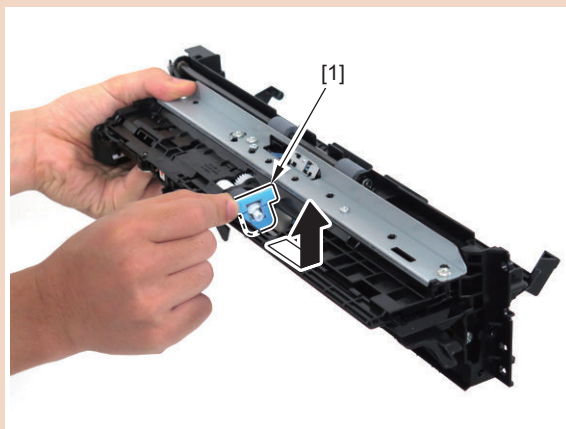
For the following procedure, the Cassette 1 Pickup Unit is used as an example in the description. Perform the same procedure for the Cassette 2 Pickup Unit.

2. Remove the Cassette 1 Pickup Unit [1].

- 2 Connectors [2] (1 in the case of the Cassette 2)
- 4 Screws [3] (RS Tightening; M4)

**CAUTION:**

- When installing the Pickup Unit provided as a service part, if it has the Fixation Member [1] attached as shown in the figure below, remove it before work.
- In case the Pickup Unit provided as a service part is not used, keep the unit with the Fixation Member [1] installed to the original position.



● Removing the Transparency Registration Sensor/Registration Sensor

■ Preparation

1. Open the Front Cover.
2. Open the Third Delivery Frame Cover and Right Door Unit.
3. Remove the Right Handle Cover (Front)
4. Close the Front Cover.
5. Pull out the Cassette 1 and Cassette 2.
6. Close the Third Delivery Frame Cover and Right Door Unit.

7. Remove the Right Front Cover.

- 2 Screws
- 2 Bosses

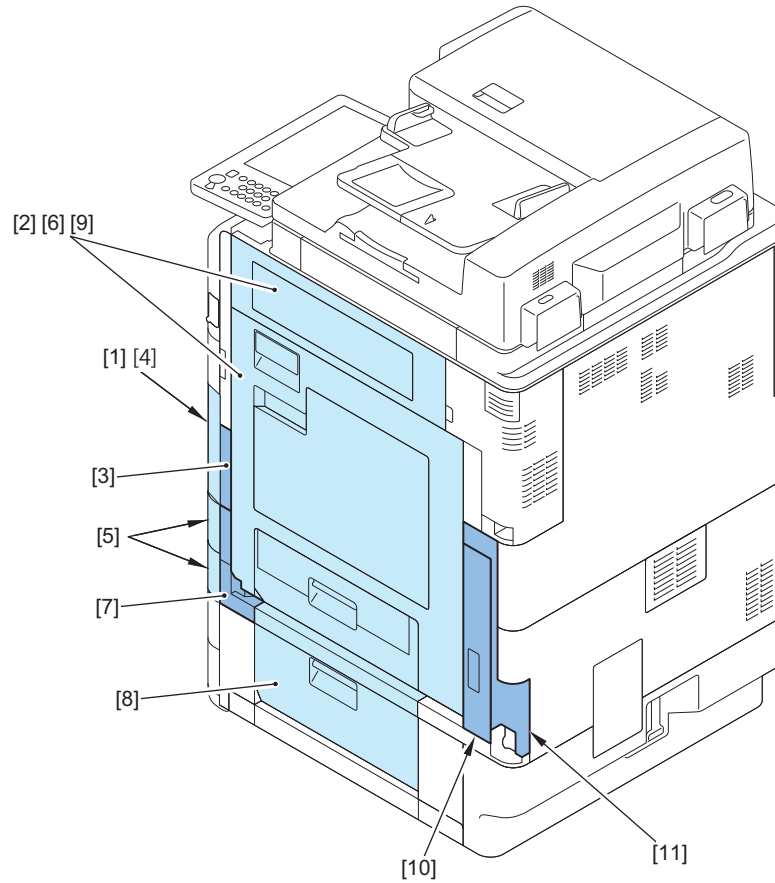
8. Open the Cassette Feeding Unit Right Door. (When the Cassette Feeding Unit is installed.)

9. Open the Third Delivery Frame Cover and Right Door Unit.

10. Remove the Right Handle Cover (Rear).

11. Remove the Right Rear Cover 2.

- 2 Screws

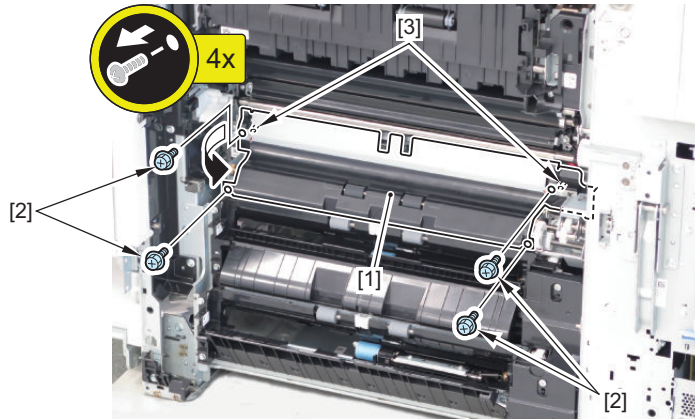


12. Removing the Right Door : “Procedure” on page 432

■ Procedure

1. Remove the Pre-registration Guide [1].

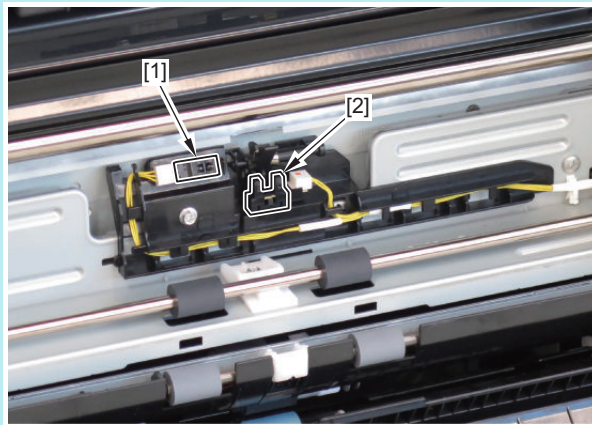
- 4 Screws [2]
- 2 Protrusions [3]



NOTE:

In the following procedure, remove only sensors that require replacement.

- Registration Sensor [1] (4 Claws, 1 Connector)
- Transparency Registration Sensor [2] (3 Claws, 1 Connector)

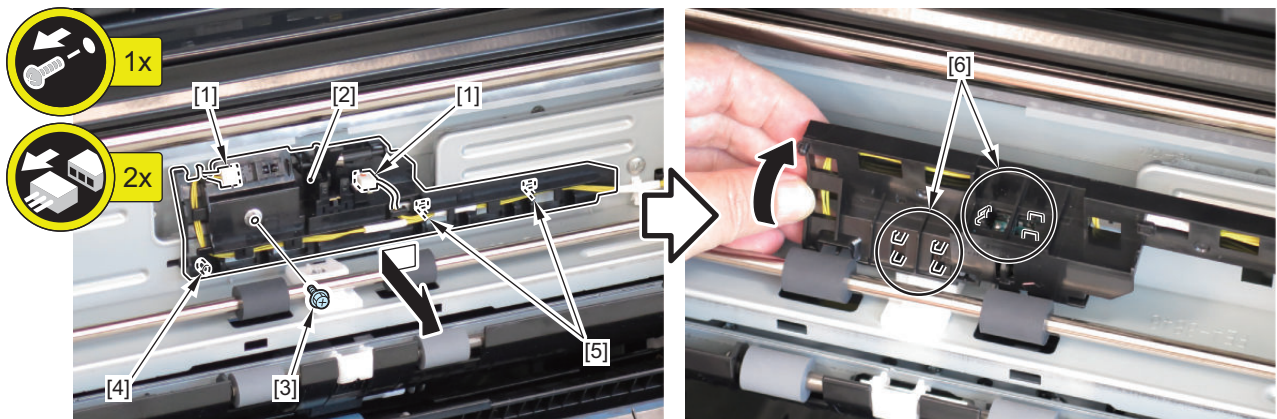


2. Remove the Transparency Registration Sensor or Registration Sensor.

- 1 Screw [3]
- 1 Boss [4]
- 2 Hooks [5]
- 2 Connectors [1]

Turn over the holder [2]. Remove the sensor.

- 7 Claws [6]





Adjustment

Pickup Feed System.....	440
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Pickup Feed System

Image Position Adjustment

CAUTION:

- By making an adjustment on the 1st side, the margin on the 2nd side is also changed.
- If the difference between the 1st and the 2nd sides is +/- 0.5 mm or less, do not adjust the 2nd side.
- The left/leading edge margin adjustment of the second side is a difference adjustment between the first side and the second side.

<Reference: Standard value>

Leading edge: 4.0+1.5/-1.0 mm (front side, back side)

Left edge: 2.5+/-1.5 mm (front side)/2.5+/-2.0 mm (back side)

1. After setting the following service mode, press the Start key and output a test print (2-sided print) from each of the paper sources.

- COPIER > TEST > PG >
TYPE = 5
COLOR-K = 1
COLOR-Y = 0
COLOR-M = 0
COLOR-C = 0
2-SIDE = 1
PG-PICK = each paper source

CAUTION:

At 2-sided printing, paper is output with the 1st side facing up and 2nd side facing down.

When checking the leading edge margin on the 1st side, check the up side of paper, and check the margin on the rear side with respect to the feed direction.

CAUTION:

When it is out of the specified range, perform adjustment of each cassette in the following order.

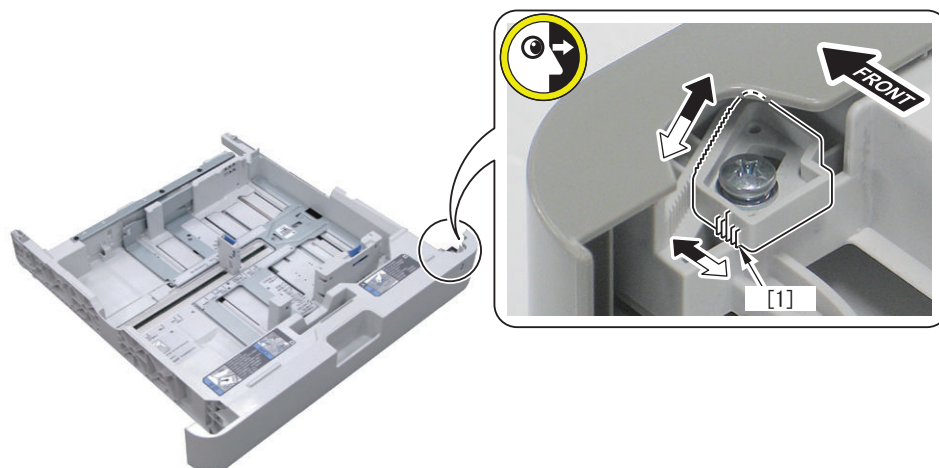
Order	Cassette 1	Cassette 2	Cassette 3/4
1	Software adjustment	Software adjustment	Hardware adjustment
2	-	Hardware adjustment	Software adjustment

*: Hardware adjustment is not performed for Cassette 1.

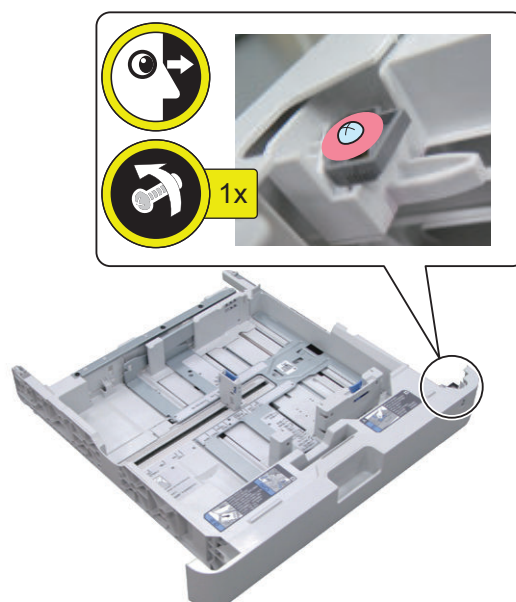
■ Hardware Adjustment

1. Pull out the cassette.

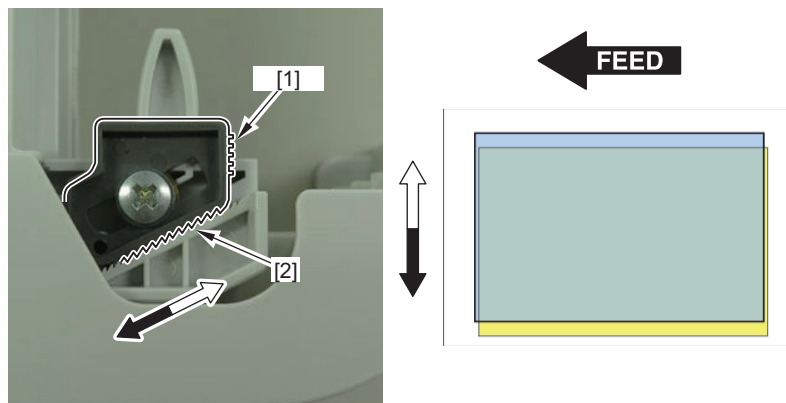
2. Check the value of the scale [1] on the Adjustment Plate.



3. Loosen the Fixation Screw.



4. Move the Adjustment Plate left or right according to the scale [1] value checked in step 2. (As the Adjustment Plate is moved toward the left of the machine by 1 tooth [2], the left edge margin is increased by 0.5 mm.)

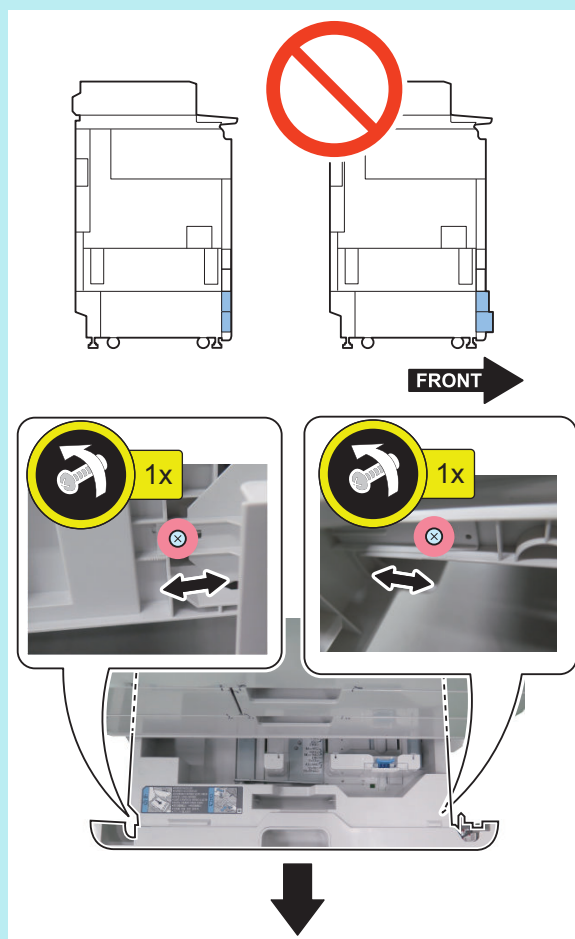


5. Tighten the Fixation Screws.

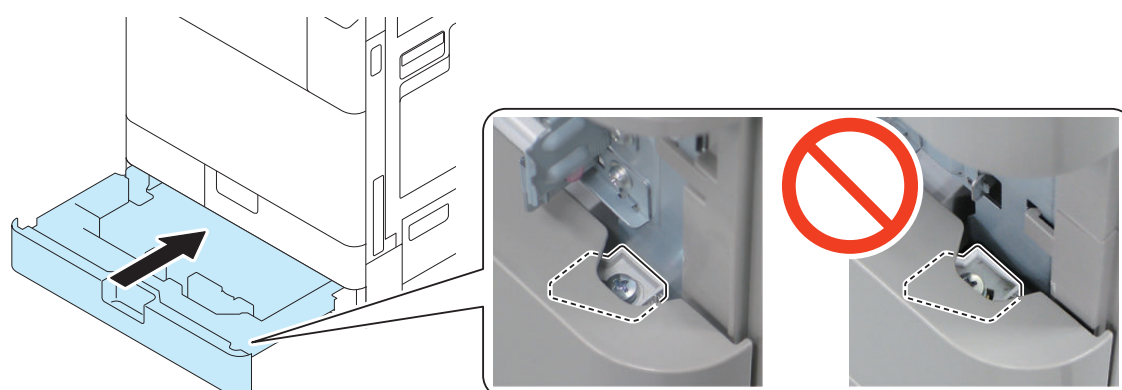
NOTE:

If you move the Adjustment Plate, it may cause the difference in level of the cassettes.

If you are concerned with the difference in level of the cassettes, adjust it by loosening the 2 screws on the side.



6. Pull out the next upper cassette, and check that the Adjustment Plate is correctly pushed against the frame.



CAUTION:

If the Adjustment Plate is not correctly pushed against the frame, image cannot be correctly adjusted.

When checking Cassette 3, the Between-cassette Cover needs to be removed.

7. Output and check that the margin is within the standard values.

■ Software adjustment

Use the following service mode to make an adjustment.

1. Leading edge

COPIER > ADJUST > FEED-ADJ >

Service Mode Items	Description of adjustment
REGIST	1/1 speed
REG-DUP1	1/1 speed, 2nd
REG-THCK	1/2 speed
REG-DUP2	1/2 speed, 2nd

As the input value is changed by 1, the margin on the leading edge of paper is changed by 0.1 mm.

2. Left edge

COPIER > ADJUST > FEED-ADJ >

Service Mode Items	Description of adjustment
ADJ-C1	Cassette 1, front side
ADJ-C1RE	Cassette 1, back side
ADJ-C2	Cassette 2, front side
ADJ-C2RE	Cassette 2, back side
ADJ-C3	Cassette 3, front side
ADJ-C3RE	Cassette 3, back side
ADJ-C4	Cassette 4, front side
ADJ-C4RE	Cassette 4, back side
ADJ-MF	Multi-purpose Tray, front side
ADJ-MFRE	Multi-purpose Tray, back side

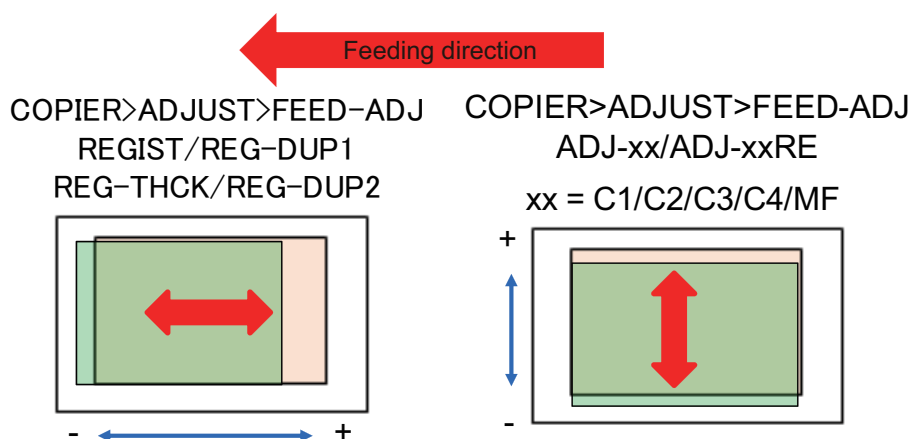
As the input value is changed by 1, the margin on the left edge of paper is changed by 0.1 mm.

3. If the service mode setting value has been changed, write down the new adjustment value on the service label.

<Reference: Standard value>

Leading edge: 4.0+1.5/-1.0 mm (front side, back side)

Left edge: 2.5+/-1.5 mm (front side)/2.5+/-2.0 mm (back side)



● Geometric Characteristics Adjustment

Geometric characteristics adjustment is executed when image distortion (on the entire image and the trailing edge only) occurs. The following 3 adjustments are available as the geometric characteristics adjustment.

1. Pre-secondary transfer guide adjustment
2. Registration pressure adjustment
3. Fixing alignment adjustment

	Applicable image error	Adjustable maximum value	Adjustment order
Pre-secondary transfer guide adjustment	Fan-shaped distortion	+/- 0.7 mm *1	1
Registration pressure adjustment	Distortion on the trailing edge	+/- 0.3 mm *1	2
Fixing alignment adjustment	Distortion on the trailing edge	+/- 0.3 mm *1	3

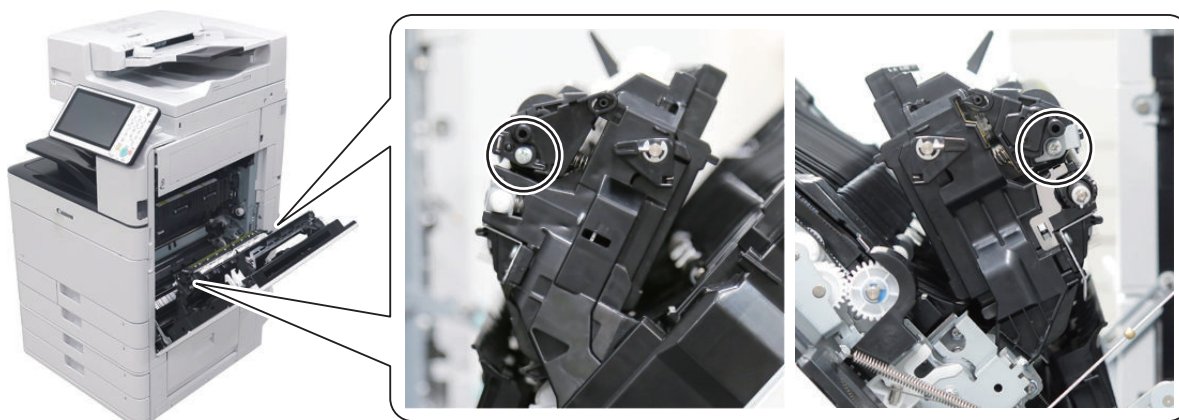
*1: The maximum adjustable value is a reference in case of using paper which paper weight is 81 g/m². Above values are only for reference, because the amount of change differs depending on the paper types being used and individual variability.

■ Pre-secondary transfer guide adjustment

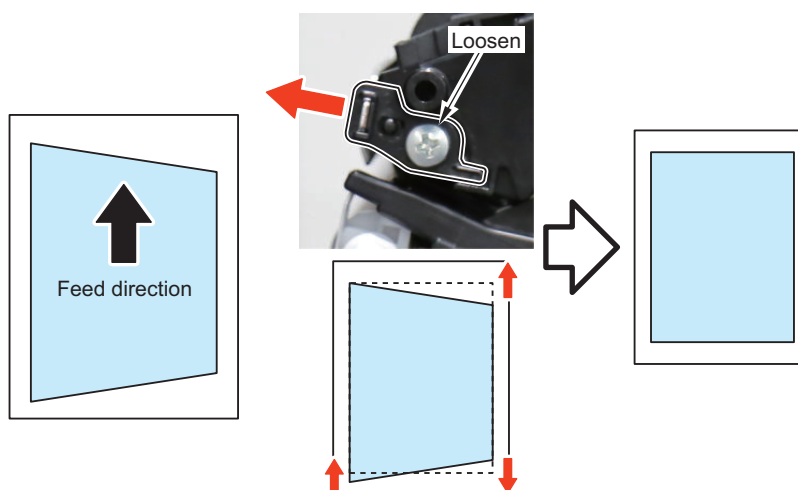
Adjustment is possible by loosening the screws as shown in the figure below and moving the Pre-secondary Transfer Guide toward the inside of the machine.

The range which can be adjusted by this adjustment is maximum of approx. 0.7 mm. (Differs according to the paper type)

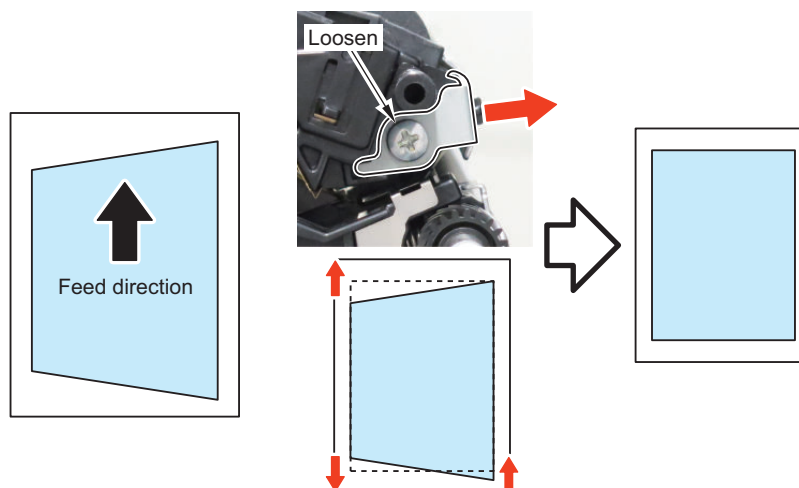
Symptom	Operation
The right side of image is distorted.	Push out the front side.
The left side of image is distorted.	Push out the rear side.



- When the right side of image is distorted
Push out the front side.



- When the left side of image is distorted
Push out the rear side.

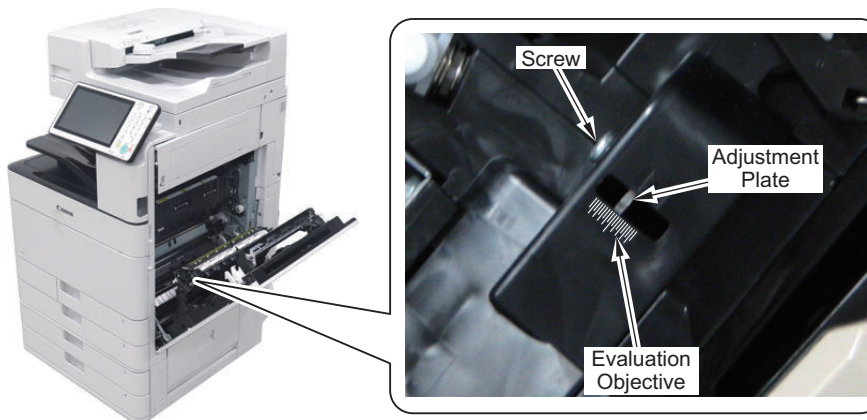


■ Registration Roller Pressure Adjustment

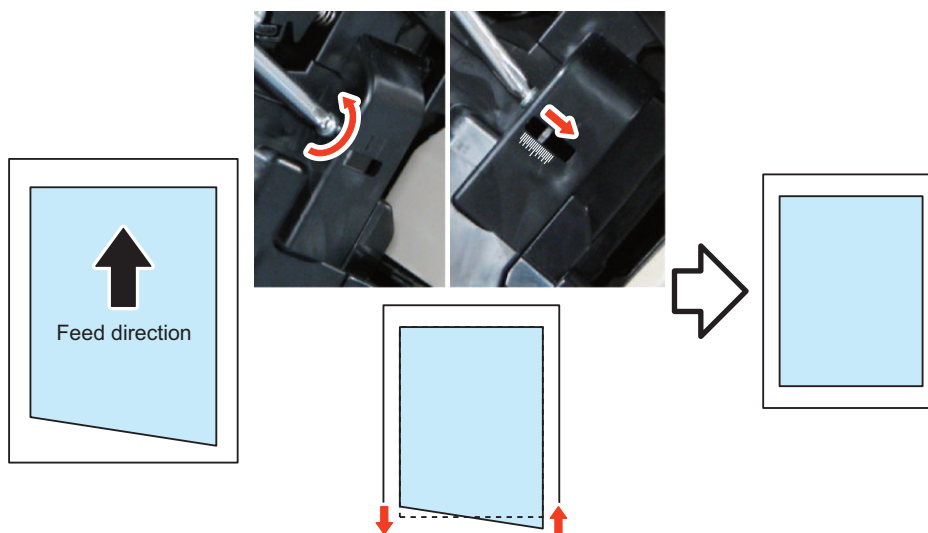
Adjustment is possible by turning the screw located as shown in the figure below. Check the position of the Adjustment Plate before adjustment.

The range which can be adjusted by this adjustment is maximum of approx. 0.3 mm. (Differs according to the paper type)

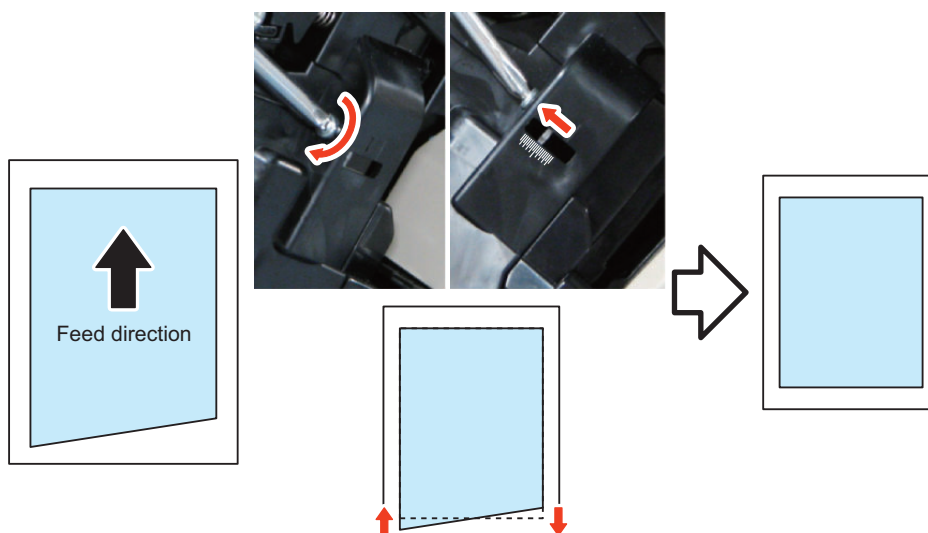
Symptom	Operation	Points to check
The left side of the trailing edge of image is distorted.	Turn the screw counterclockwise.	The Adjustment Plate moves to the right.
The right side of the trailing edge of image is distorted.	Turn the screw clockwise.	The Adjustment Plate moves to the left.



- When the left side of the trailing edge of image is distorted
Turn the screw counterclockwise.



- When the right side of the trailing edge of image is distorted
Turn the screw clockwise.

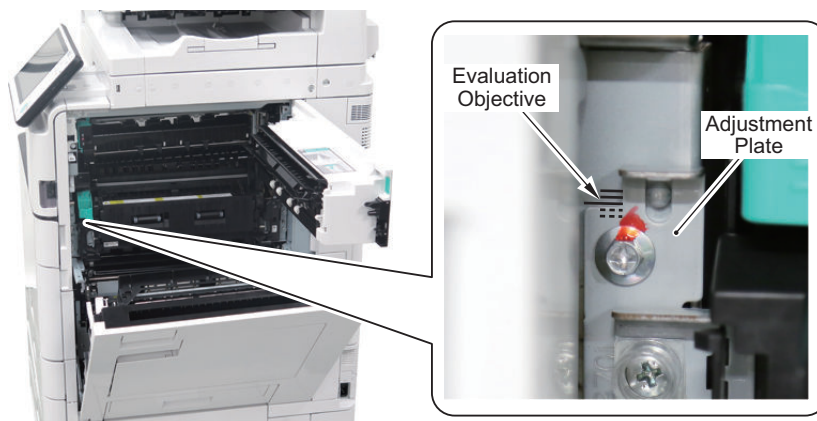


■ Fixing alignment adjustment

Adjustment is possible by loosening the screw located as shown in the figure below and moving the Adjustment Plate up and down. Check the position of the Adjustment Plate before adjustment.

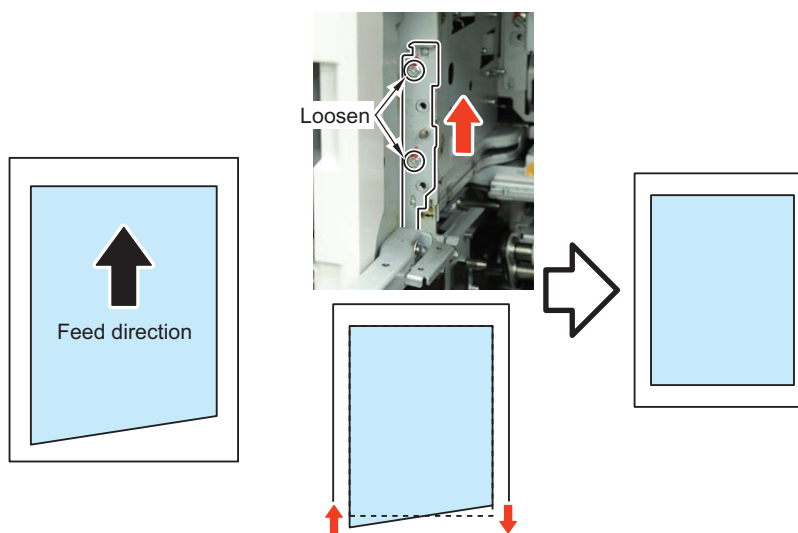
The range which can be adjusted by this adjustment is maximum of approx. 0.3 mm. (Differs according to the paper type)

Symptom	Operation
The right side of the trailing edge of image is distorted.	Move the Adjustment Plate up.
The left side of the trailing edge of image is distorted.	Move the Adjustment Plate down.

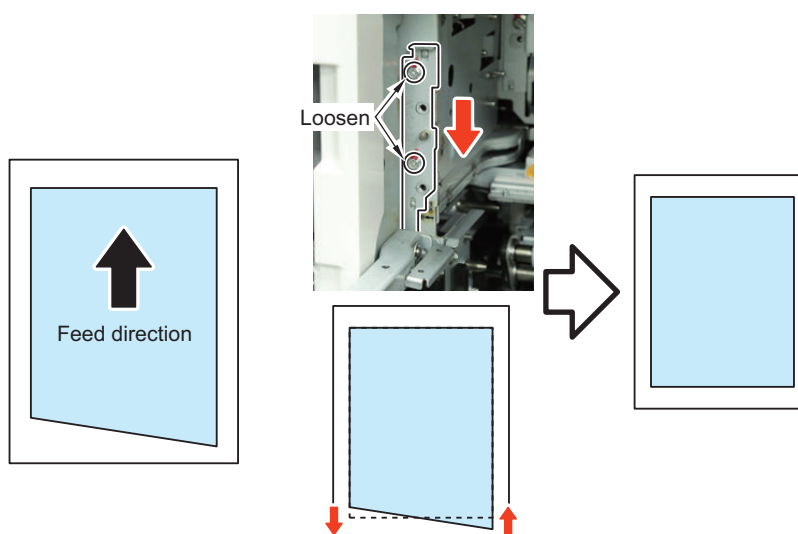
**NOTE:**

This procedure cannot be performed correctly when the Fixing Unit is installed. Be sure to remove the Fixing Unit before making adjustments.

- When the right side of the trailing edge of image is distorted
Move the Adjustment Plate up.



- When the left side of the trailing edge of image is distorted
Move the Adjustment Plate down.



Original Exposure System

Reader Unit

■ Service Mode Backup

Adjustment is made to every machine at the time of shipment to write the adjustment value in the service label.

Be sure to adjust the value in the field, and in the case of changing the service mode value, be sure to write down the changed value in the service label.

When the corresponding item is not found on the service label, write the value in blank field.

The service label is affixed to the back of the Reader Front Cover.

It is also possible to backup and restore using service modes. This backup will take approx. 10 seconds.

Backup: Service mode (Lv.2)

COPIER > FUNCTION > SYSTEM > RSRAMBUP

Restoration: Service mode (Lv.2)

COPIER > FUNCTION > SYSTEM > RSRAMRES

NOTE:

When changing the service mode setting values, it is recommended to back them up in the above service mode. Performing backup makes the work easier when replacing the Reader Controller PCB, etc.

■ Actions after Clearing the RAM of the Reader Controller PCB

1. Execute the RAM clear in the following service mode.

COPIER > FUNCTION > CLEAR > R-CON

2. Turn OFF and then ON the connected equipment.

3. Depending on the status of backup, perform one of the following measures.

- When backup is performed normally
Execute the following service mode (Lv.2) to restore the backup data.
COPIER > FUNCTION > SYSTEM > RSRAMRES

NOTE:

Work is completed when backup was normally performed.

- When backup is not performed normally
Enter the values written on the service label (on the back of the Reader Front Cover) to the service mode items.

4. In the following service mode, calculate the MTF filter coefficient.

COPIER > FUNCTION > CCD > MTF-CLC

5. In the following service mode, calculate for matching paper front and back linearity.

COPIER > FUNCTION > CCD > DF-LNR

6. In the following service mode, execute either AB or Inch configuration tray width adjustment.

- To execute AB configuration adjustment
 1. Highlight the service mode item.
FEEDER > FUNCTION > TRY-A4
 2. Align the Slide Guide with "A4/A3".
 3. Highlight the service mode item.
FEEDER > FUNCTION > TRY- A5R
 4. Align the Slide Guide with "A5R".
 5. Press the OK key and register the width of A5R.

- To execute Inch configuration adjustment
 1. Highlight the service mode item.
FEEDER > FUNCTION > TRY-LTR
 2. Align the Slide Guide with "LTR/11x17".
 3. Press the OK key and register the width of Letter.
 4. Highlight the service mode item.
FEEDER > FUNCTION > TRY- LTRR
 5. Align the Slide Guide with "STMT/LTRR/LGL".
 6. Press the OK key and register the width of LTRR.

7. In the following service mode, output P-PRINT.

COPIER > FUNCTION > MISC-P > P-PRINT

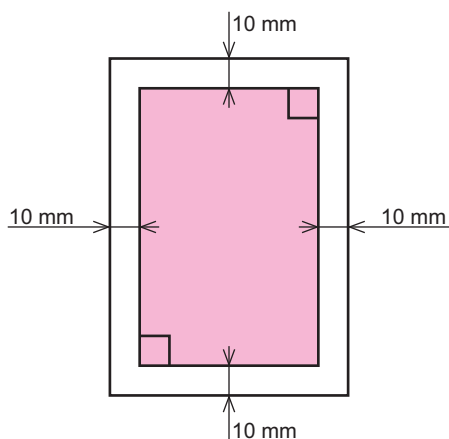
Keep the output P-PRINT in service book case.

ADF Unit

■ Preparation or Creation of the Test Charts

Prepare a test chart. If test chart is not available, create a test chart.

Create a test chart using a A4 or LTR size paper, by drawing a rectangle 10 mm smaller than the paper at four corners.



NOTE:

Write a character or a symbol to indicate the orientation of the copy image.

■ Eased Angle Guide (Opening Angle of 90 Degrees)

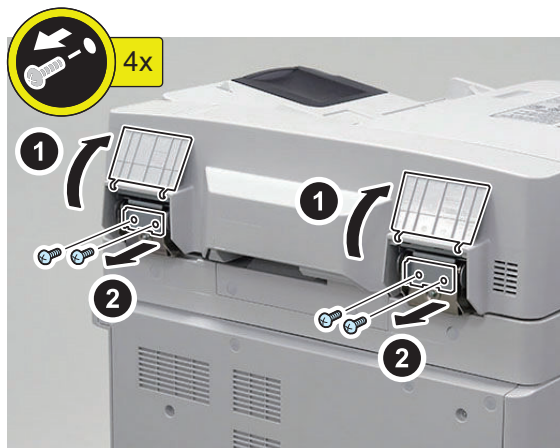
Change the opening angle of the ADF from 70 degrees to 90 degrees.

NOTE:

Some operation become easier by making the DADF opening angle wider.



1. Open the Hinge cover, and remove the Hinge stopper.
 - 4 Screws



CAUTION:

After adjustment, be sure to install the Hinge Stoppers.

■ Adjustment of the Tray Width

CAUTION:

Make sure to perform the tray width adjustment.

If the AB configuration adjustment or Inch configuration adjustment is not performed, the original size may not be detected correctly.

AB Configuration Adjustment



1. Highlight the service mode item in the following service mode.
FEEDER > FUNCTION > TRY-A4
2. Align the Slide Guide with "A4/A3".
3. Press the OK key and register the width of A4.
4. Highlight the service mode item in the following service mode.
FEEDER > FUNCTION > TRY- A5R
5. Align the Slide Guide with "A5R".
6. Press the OK key and register the width of A5R.

Inch Configuration Adjustment



1. Highlight the service mode item in the following service mode.
FEEDER > FUNCTION > TRY-LTR
2. Align the Slide Guide with "LTR/11x17".
3. Press the OK key and register the width of Letter.
4. Highlight the service mode item in the following service mode.
FEEDER > FUNCTION > TRY- LTRR
5. Align the Slide Guide with "STMT/LTRR/LGL".
6. Press the OK key and register the width of LTRR.

■ Height Adjustment

Checking the Height

-
1. Check that the 2 Height Adjustment Bosses at the left front side and the left rear side are in contact with the Stream Reading Glass.

NOTE:

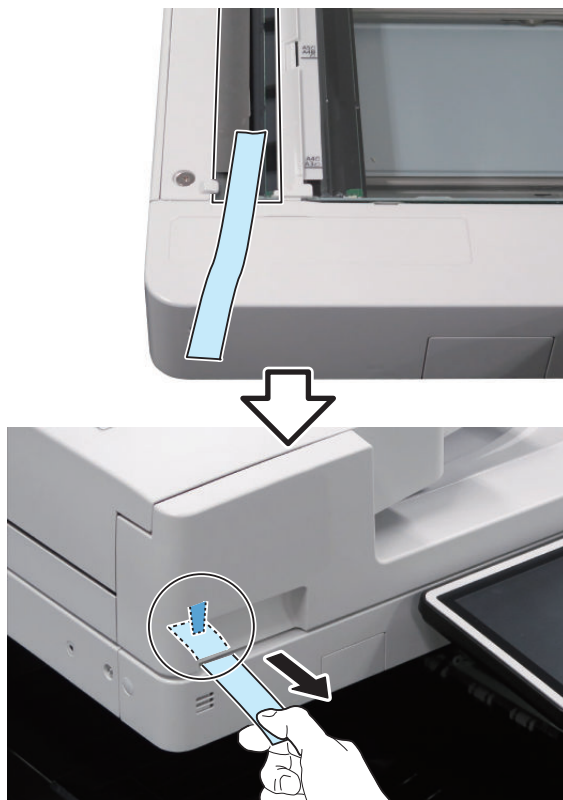
Checking becomes easier by lighting the LED using the following service mode.
COPIER > FUNCTION > MISC-R > SCANLAMP



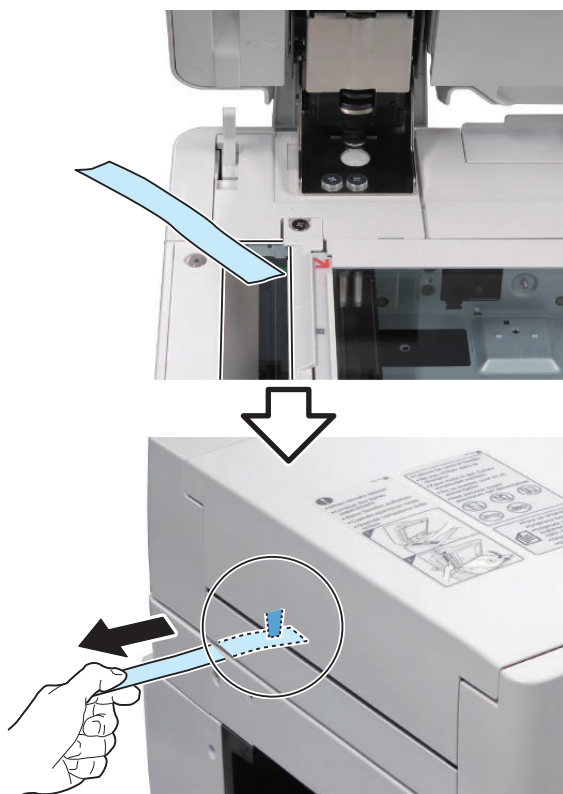
2. If they are not in contact, perform the height adjustment.
If it cannot be visually checked, perform "Checking the Height of the Height Adjustment Boss".

Checking the Height of the Height Adjustment Boss

-
1. Put a sheet of paper on the place where the protrusions touch the Stream Reading Glass, and check whether there is any resistance of the paper when closing the ADF.
<The Left Front Side>



2. <The Left Rear Side>



3. If there is no resistance, perform the height adjustment.

Height Adjustment Procedure

-
- Adjust by turning the Fixation Screw on the upper side of Hinge.
 - If both front and rear side (or only front side) are not installed properly: Turn the Right Hinge Fixation Screw clockwise (black arrow) to correctly locate it at the front.



- If the rear side is not installed properly: Turn the Left Hinge Fixation Screw counterclockwise (white arrow).



- Check the height again and see if it is at an appropriate height.

■ Right Angle Adjustment (Slant Adjustment)

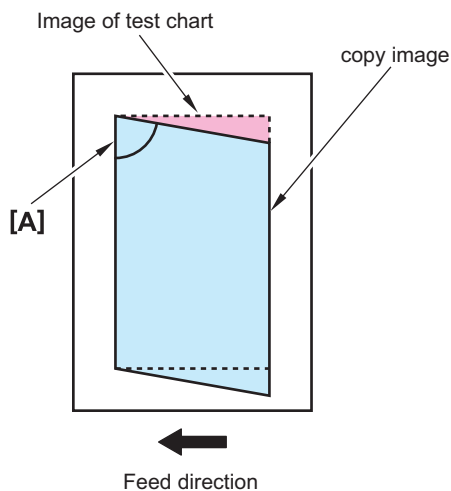
NOTE:

There are two adjustment methods: One for reading the front side (Scanner Unit on the Reader side) and another for reading the back side (Scanner Unit on the DADF side).

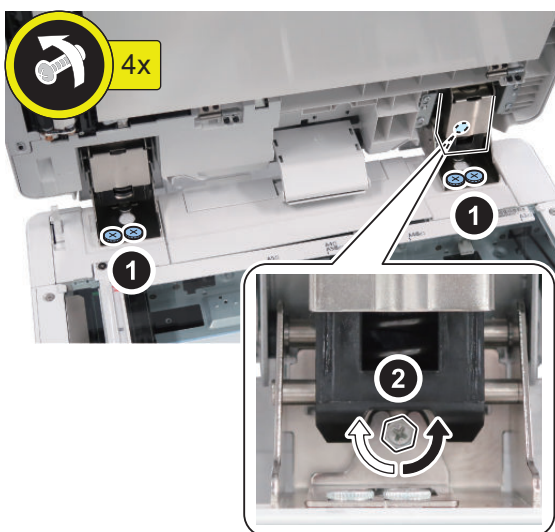
Adjustment of the Paper Front Reading



1. Place a test chart on the ADF and perform 1-sided copy.
2. Check the A part of the copy paper for the squareness of the image. Make adjustment if it is not at a right angle.



3. Loosen the 4 Knurled Screws at the front part of the Right and Left Hinge Unit.
4. Rotate the screw of the right hinge to move the Fixation Member.
 - A = Less than 90 degrees: Turn the screw clockwise.
 - A = 90 degrees or more: Turn the screw counterclockwise.

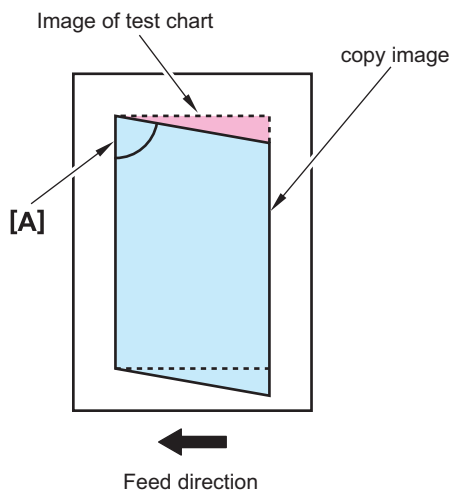


5. After adjustment, tighten the 4 Knurled Screws.
6. Copy the test chart again, and check that the A part is at a right angle.

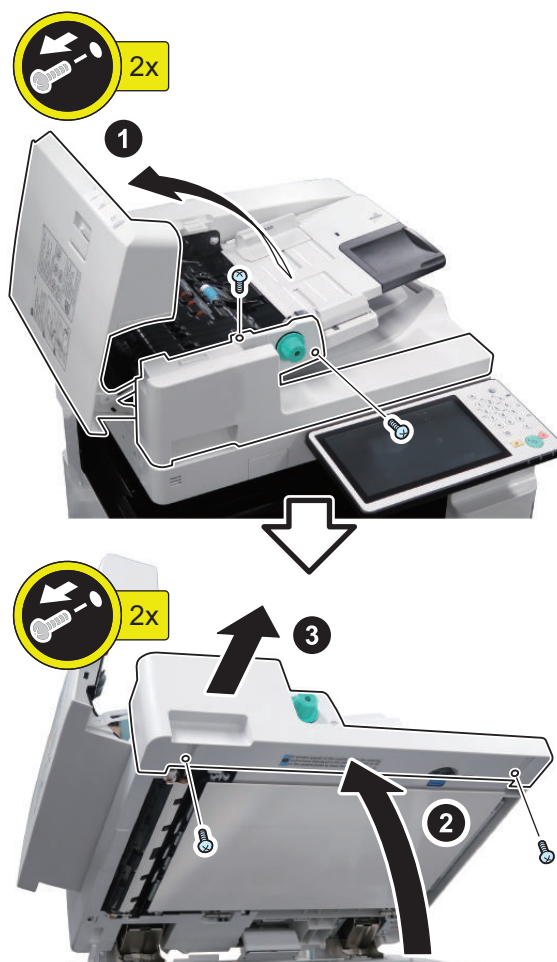
Adjustment of the Paper Back Reading



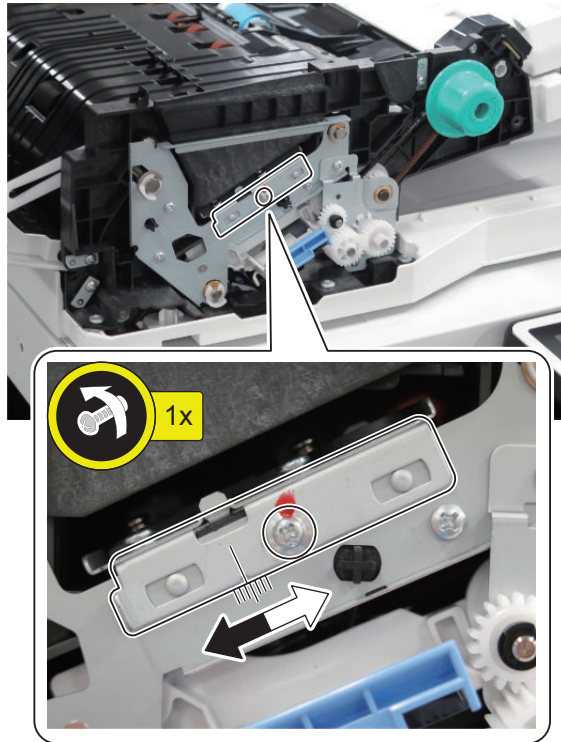
1. Place a test chart facing down on the ADF and perform 2-sided copy.
2. Check the A part of the copy paper for the squareness of the image. Make adjustment if it is not at a right angle.



3. Open the Feeder Cover, and remove the Front Cover of the DADF.
 - 4 screws



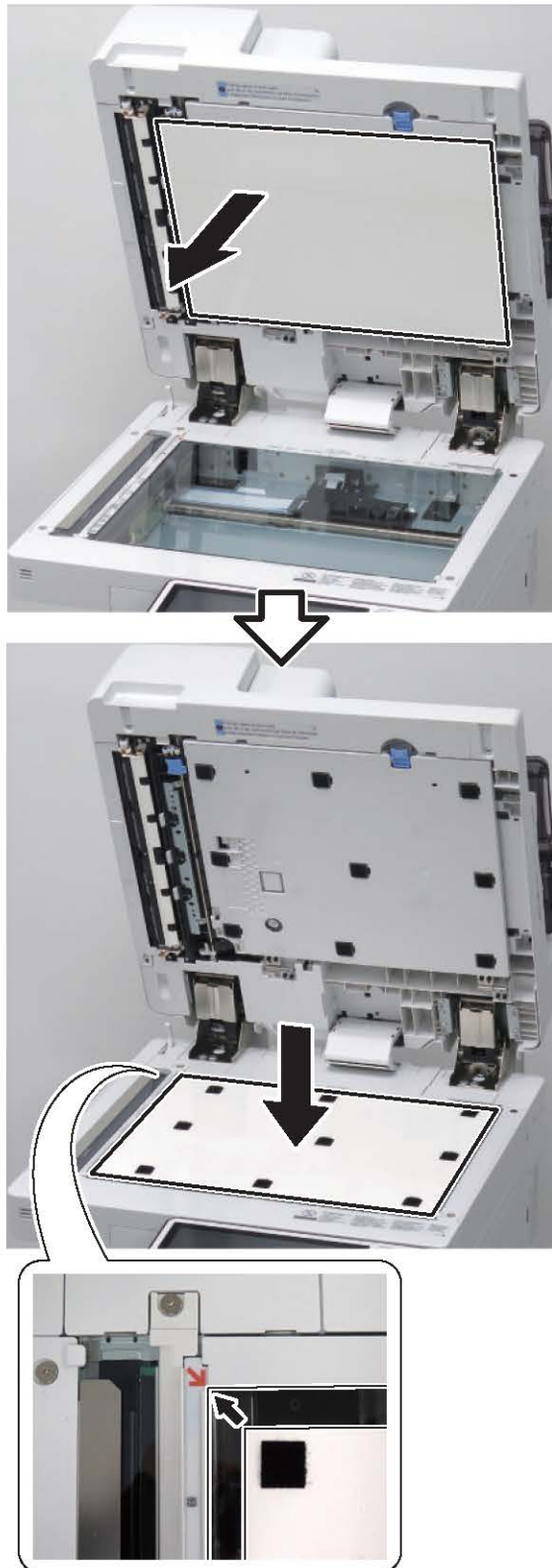
4. Loosen the adjustment screw. Adjust the position of the guide supporting the Scanner Unit.
 - A = less than 90 degrees: Move the Guide to the right side (white arrow).
 - A = 90 degrees or more: Move the Guide to the left side (black arrow).



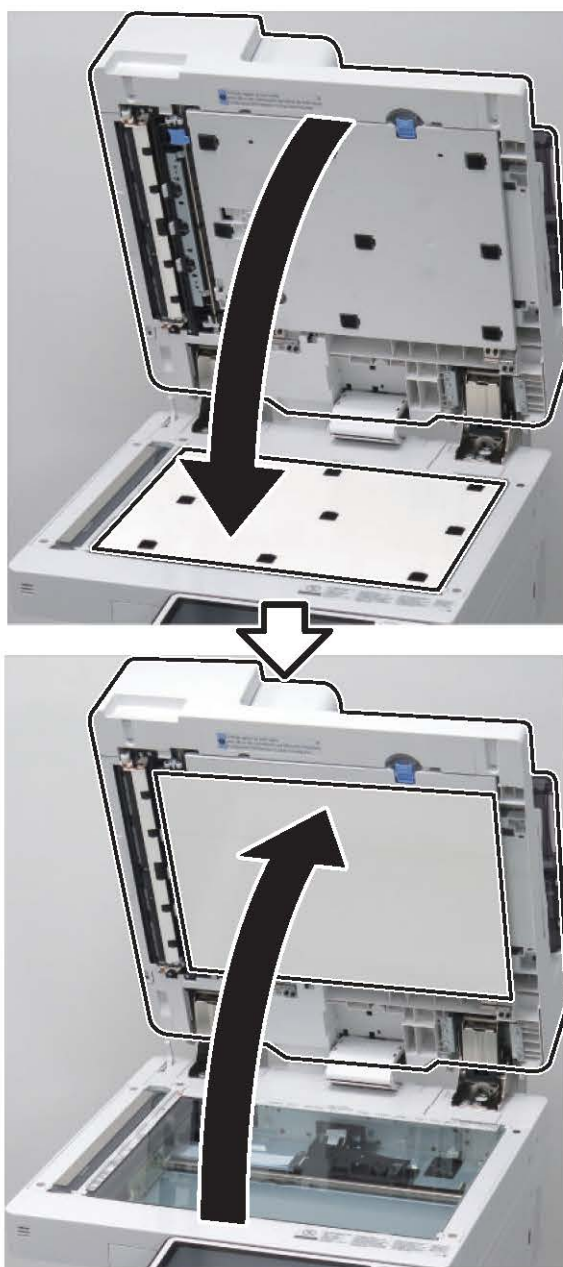
5. After adjustment, tighten the adjustment screw.
6. Print the test chart again, and check that it is at a right angle.
7. Return the DADF Front Cover and the Feeder Cover to their original positions.
 - 4 screws

■ Adjustment of the White Plate

□
1.

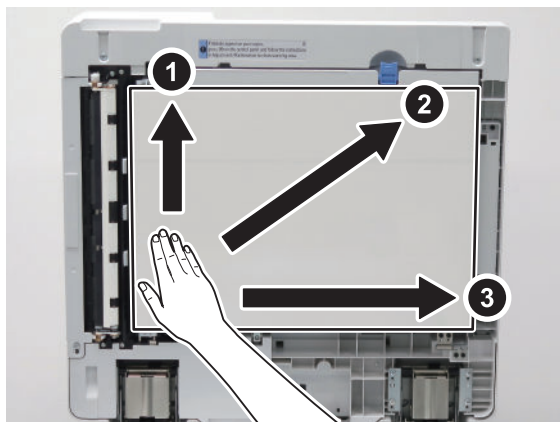


□
2.



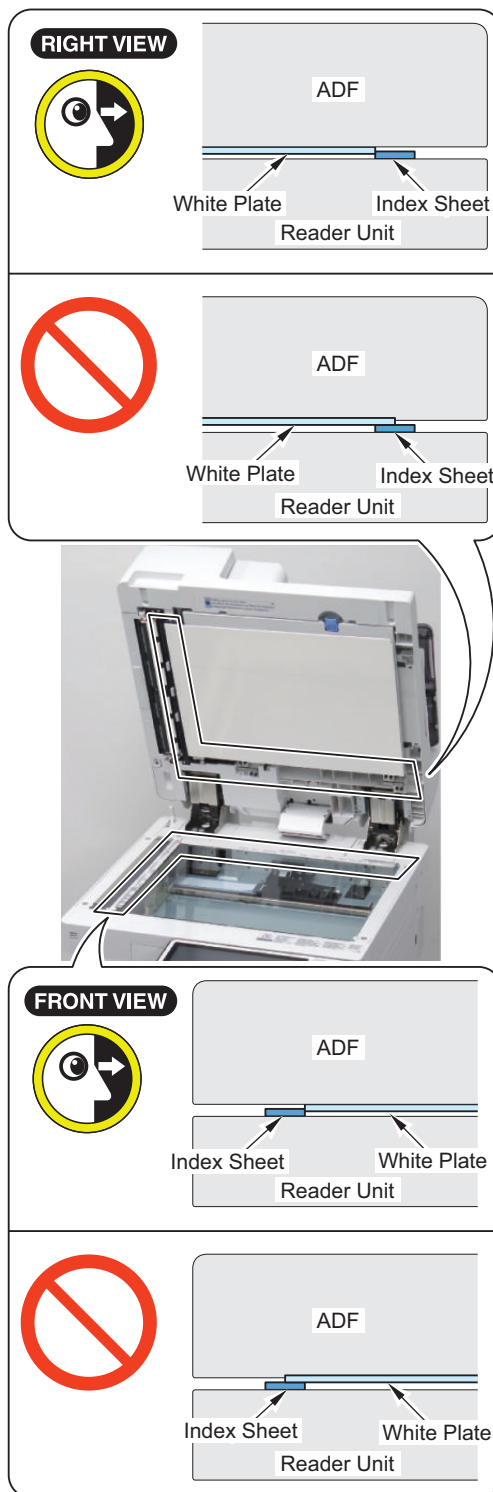
□
3.**CAUTION:**

If the White Plate is pressed downward, it is placed on the Index Sheet, so be sure to press it upward.



□
4.**NOTE:**

- Be sure that there is no gap (for reference, 0.3 mm or less) between the White Plate and the Index Sheet.
- Check that the White Plate is not placed on the Index Sheet.



■ Stream reading adjustment (Auto adjustment of reading position during ADF reading)

NOTE:

- Before performing the adjustment of the stream reading position, check that the 2 Height Adjustment Bosses at the front and rear side are in contact with the Stream Reading Glass and the White Plate is not placed on the Index Sheet.
- If the DADF is opened during adjustment, perform the adjustment again.
- Write the adjusted value on the service label (behind the Reader Front Cover, Printer Front Cover or Maintenance Cover) (Adjustment results are reflected in COPIER > ADJUST > ADJ-XY > STRD-POS).
COPIER > ADJUST > ADJ-XY > STRD-POS

**1. Execute the following service mode.**

COPIER > FUNCTION > INSTALL > STRD-POS

NOTE:

When "NG" is displayed in this mode, execute "Squareness Adjustment (Tilt Adjustment)" described in the adjustment chapter of the service manual.

■ Side registration adjustment

NOTE:

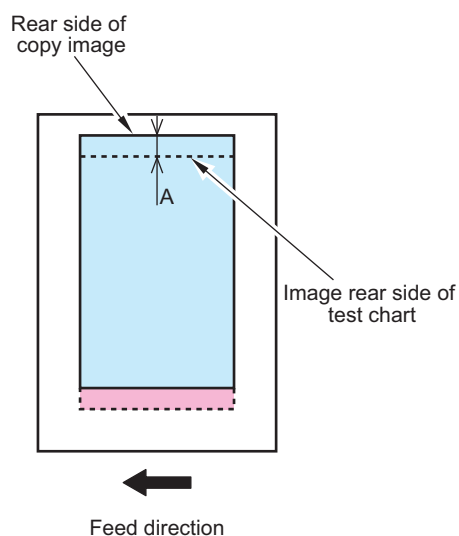
There are two adjustment methods: One for reading the front side (Scanner Unit on the Reader side) and another for reading the back side (Scanner Unit on the DADF side).

Adjustment of the Paper Front Reading

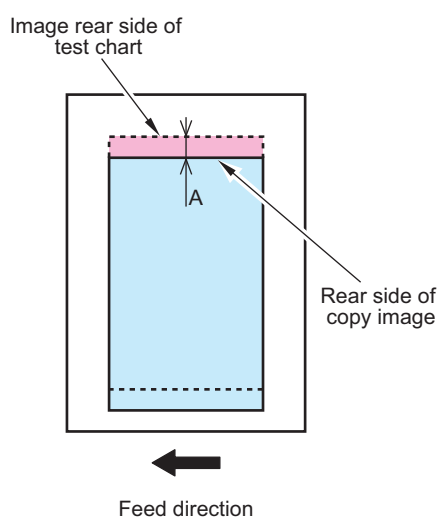


1. Place a test chart on the Document Pickup Tray and perform a 1-sided copy.
2. Overlay the copy paper on to the test chart.
3. Check that the rear side of the copy image is within the standard range.
 - Standard range: $A \leq 1 \text{ mm}$

< If the image is displaced toward rear >



< If the image is displaced toward front >



4. If it is not within the standard range, make an adjustment with the following service mode.
 COPIER > ADJUST > ADJ-XY > ADJ-Y-DF
 - If the printed image is displaced toward the rear side: Increase the value (by moving the image toward the front side).
 - If the printed image is displaced toward the front side: Decrease the value (by moving the image toward the rear side).
 Amount of change per increment: 0.1 mm

Adjustment range: -35 to +35

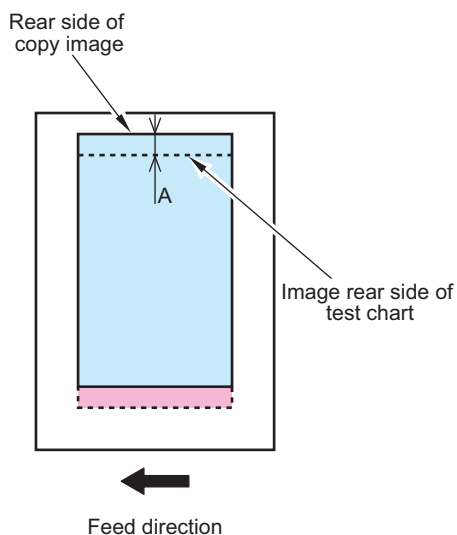
5. Copy the test chart again, and check that the image is within the ranges of the standard.
6. Write down the adjusted value in the service label (on the back of the Reader Front Cover).

Adjustment of the Paper Back Reading

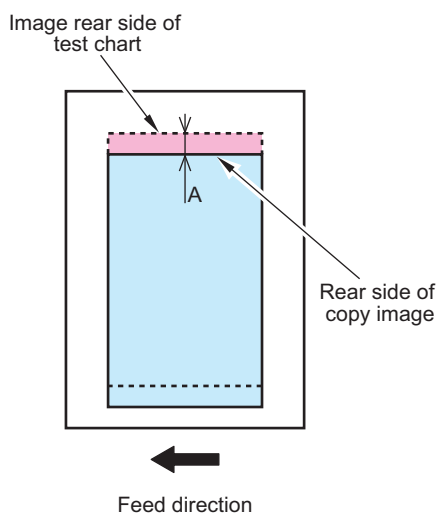


1. Place a test chart facing down on the Document Pickup Tray and perform 2-sided print.
2. Overlay the printed paper onto the test chart.
3. Check that the rear side of the printed image is within the standard range.
 - Standard range: $A \leq 1 \text{ mm}$

< If the image is displaced toward rear >



< If the image is displaced toward front >



4. If it is not within the standard range, make an adjustment with the following service mode.
 COPIER > ADJUST > ADJ-XY > ADJY-DF2
 - If the printed image is displaced toward the front side: Increase the value (by moving the image toward the rear side).
 - If the printed image is displaced toward the rear side: Decrease the value (by moving the image toward the front side).
 Amount of change per increment: 0.1 mm
 Adjustment range: -35 to +35
5. Copy the test chart again, and check that the image is within the ranges of the standard.
6. Write down the adjusted value in the service label (on the back of the Reader Front Cover).

■ Leading edge registration adjustment

NOTE:

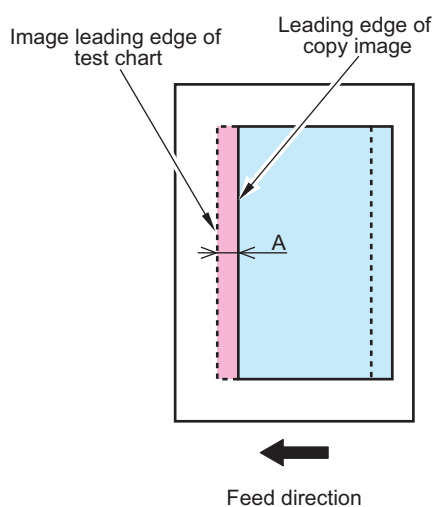
There are two adjustment methods: One for reading the front side (Scanner Unit on the Reader side) and another for reading the back side (Scanner Unit on the DADF side).

Adjustment of the Paper Front Reading

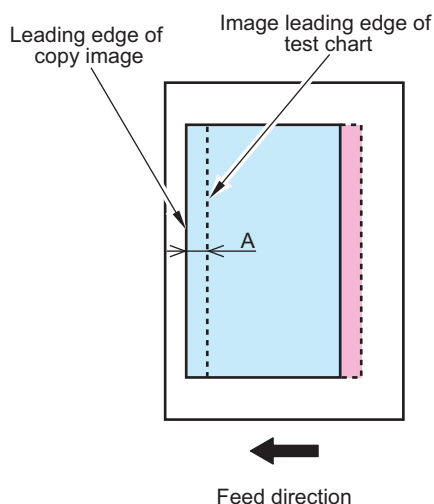


1. Place a test chart on the Document Pickup Tray and perform a 1-sided copy.
2. Overlay the copy paper onto the test chart.
3. Check that the leading edge of the copy image is within the standard range.
 - Standard range: $A \leq 1 \text{ mm}$

< If the image is displaced toward trailing edge >



< If the image is displaced toward leading edge >



4. If it is not within the standard range, make an adjustment with the following service mode.

FEEDER > ADJUST > DOCST

- If the printed image is displaced toward the trailing edge: Increase the value (by moving the image toward the leading edge).

- If the printed image is displaced toward the leading edge: Decrease the value (by moving the image toward the trailing edge).

Amount of change per increment: 0.1 mm

Adjustment range: -50 to +50

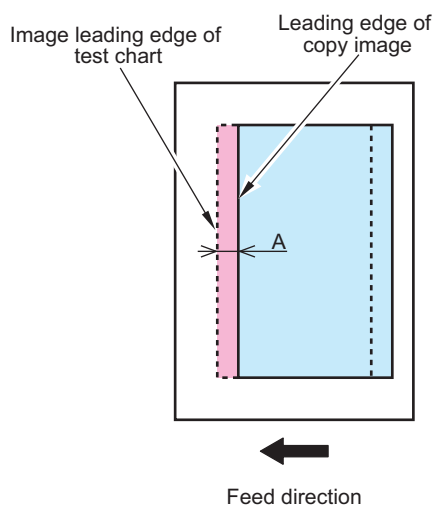
5. Print the test chart again, and check that the image is within the ranges of the standard.
6. Write down the adjusted value in the service label (on the back of the Reader Front Cover).

Adjustment of the Paper Back Reading

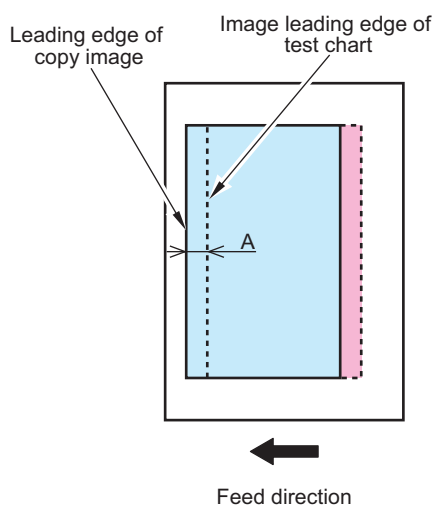


1. Place a test chart facing down on the Document Pickup Tray and perform 2-sided print.
2. Overlay the printed paper onto the test chart.
3. Check that the leading edge of the printed image is within the standard range.
 1. Standard range: $A \leq 1$ mm

< If the image is displaced toward trailing edge >



< If the image is displaced toward leading edge >



4. If it is not within the standard range, make an adjustment with the following service mode.
FEEDER > ADJUST > DOCST2

- If the printed image is displaced toward the trailing edge: Increase the value (by moving the image toward the leading edge).
 - If the printed image is displaced toward the leading edge: Decrease the value (by moving the image toward the trailing edge).
- Amount of change per increment: 0.1 mm
Adjustment range: -50 to +50

5. Print the test chart again, and check that the image is within the ranges of the standard.
6. Write down the adjusted value in the service label (on the back of the Reader Front Cover).

■ Magnification ratio adjustment

NOTE:

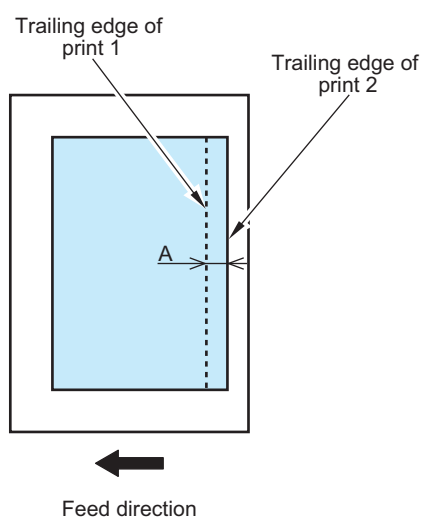
- There are two adjustment methods: One for reading the front side (Scanner Unit on the Reader side) and another for reading the back side (Scanner Unit on the DADF side).
- This adjustment is performed by comparing the images printed by stream reading and Copyboard reading.

● Adjustment of the Paper Front Reading

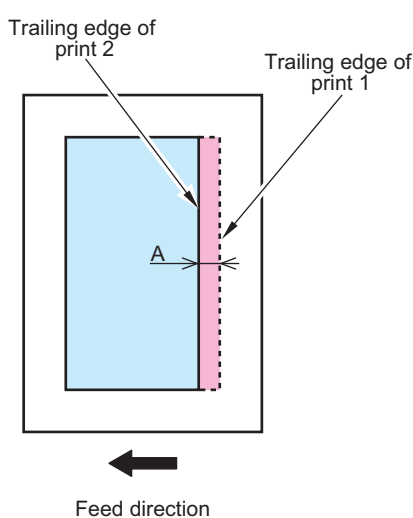
1. Place a test chart on the Copyboard Glass of the connected equipment and print. This is called Print 1.
2. Place a test chart on the Document Pickup Tray and perform a 1-sided print. This is called Print 2.
3. Overlay the Print 2 onto the Print 1.
4. Check that the trailing edge of the image on the Print 2 is within the standard range.

Standard range: $A \leq 1 \text{ mm}$

< If the image of print 2 is longer >



> If the image of print 2 is shorter >



5. If it is not within the standard range, make an adjustment with the following service mode

FEEDER > ADJUST > LA-SPEED

- If the image on the Print 2 is longer: Make the numeric value larger (by making the stream reading of the original "faster").
- If the image on the Print 2 is shorter: Make the numeric value smaller (by making the stream reading of the original "slower").
- Amount of change per increment: 0.1%
- Adjustment range: -30 to +30

6. Print the test chart again, and check that the image is within the ranges of the standard.

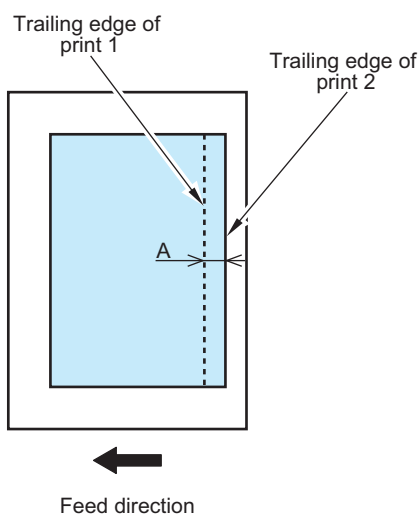
● Adjustment of the Paper Back Reading

1. Place a test chart on the Copyboard Glass of the connected equipment and print. This is called Print 1.
2. Place a test chart facing down on the Document Pickup Tray and perform 2-sided print. This is called Print 2.
3. Overlay the Print 2 onto the Print 1.

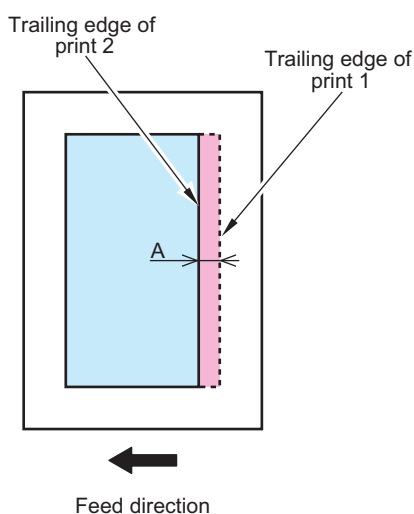
4. Check that the trailing edge of the image on the Print 2 is within the standard range.

Standard range: $A \leq 1$ mm

< If the image of print 2 is longer >



< If the image of print 2 is shorter >



5. If it is not within the standard range, make an adjustment with the following service mode

FEEDER > ADJUST > LA-SPD2

- If the image on the Print 2 is longer: Make the numeric value larger (by making the vertical scanning length of the image shorter).
- If the image on the Print 2 is shorter: Make the numeric value smaller (by making the vertical scanning length of the image longer).
- Amount of change per increment: 0.1%
- Adjustment range: -30 to +30

6. Print the test chart again, and check that the image is within the ranges of the standard.

■ White Level Adjustment



1. Place a sheet of blank A4 or LTR size paper on the Copyboard Glass and close the ADF.

CAUTION:

When executing the white level adjustment using paper with smaller width, adjustment may not be executed properly.

2. Execute the service mode item.
COPIER > FUNCTION > CCD > DF-WLVL1
3. Remove the blank paper from the Copyboard Glass, and place it on the Document Pickup Tray of ADF.
4. Execute the service mode item.
COPIER > FUNCTION > CCD > DF-WLVL2
5. Place the blank paper on the Copyboard Glass again and close the ADF.
6. Execute the service mode item.
COPIER > FUNCTION > CCD > DF-WLVL3
7. Remove the blank paper from the Copy Board Glass, and place it on the Document Pickup Tray of ADF.
8. Execute the service mode item.
COPIER > FUNCTION > CCD > DF-WLVL4

■ Auto Adjust Gradation

Execute auto gradation adjustment for the used paper type as needed.

However, when using 2 or more types of paper, it is necessary to execute all the modes corresponding to each type of paper.

CAUTION:

Note that if a type of paper to which auto gradation adjustment is not performed is used, it may cause negative effects on image or the host machine.

Paper Settings

1. Select the paper source in [Settings/Registration] > [Preferences] > [Paper Settings] > [Paper Settings], and press [Set].
2. Select the paper type, and select the type of the loaded paper in Detailed Settings.

NOTE:

If the corresponding paper type is not displayed on the simple settings screen, press Detailed Settings and make a selection on the detailed settings screen. If the type of loaded paper is not displayed on the detailed settings screen, you can register it.

Auto Gradation Adjustment

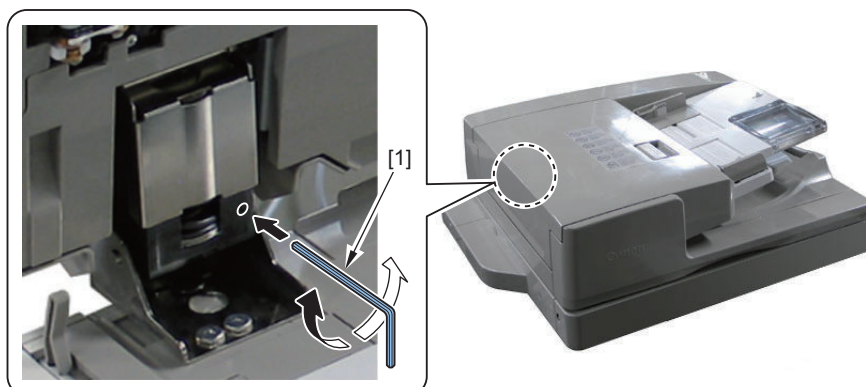
1. Clean the Copyboard Glass surface of the host machine.
2. Place A3, A4, 11x17, or LTR size paper in the cassette.
3. Press [Settings/Registration] > [Adjustment/Maintenance] > [Adjust Image Quality] > [Auto Adjust Gradation].
4. After that, follow the direction on the screen of the Control Panel.

■ Hinge pressure adjustment

1. **Open the ADF, and find out the lowest position it stays open without holding it by hands.**
2. **Find out if the height of the position checked in step 1 is within the standard range.**
Standard range: 19 cm or more
3. **If the height is not within the standard range, execute the following adjustments.**
If the height is 19 cm or less: Turn the hexagon wrench counterclockwise.

NOTE:

Service Tool: Hexagon wrench (2.5 mm)



4. Check that the "height adjustment boss" does not contact with the Stream Reading Glass after adjustment.

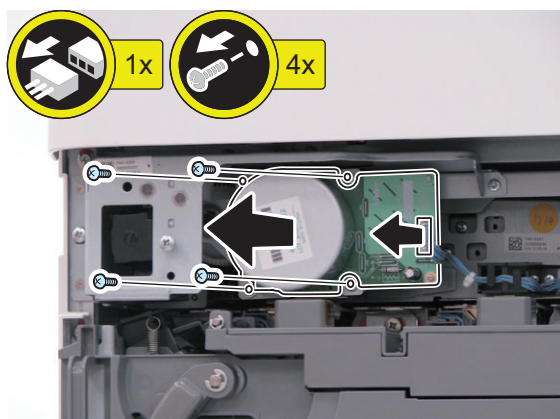
Image Formation System

ITB Alignment Adjustment

-
- 1. Turn OFF the main power switch of the host machine.
- 2. Be sure that Control Panel Display and Main Power Lamp are both turned OFF, and then disconnect the power plug.
-
- 3. Open the Front Cover and remove the ITB Cover.
 - 2 Screws (Loosen)



-
- 4. Remove the ITB Motor.
 - 1 Connector
 - 4 Screws

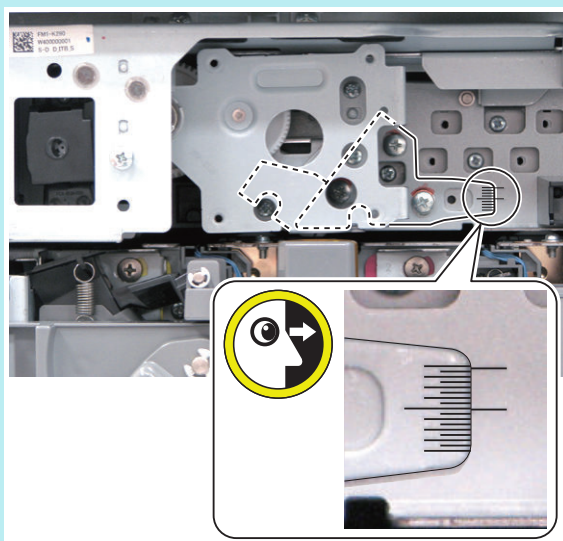




5. Loosen the 3 screws, and rotate the ITB Motor Support Plate clockwise or counterclockwise.

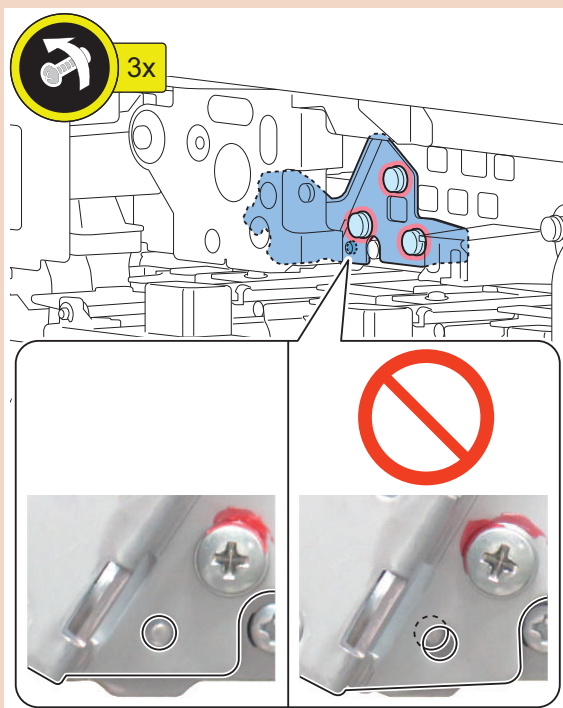
NOTE:

Be sure to check the initial position of the Adjustment Plate before loosening the screw because it moves when the screw is loosened.



CAUTION:

Be sure that the plate is not placed on the boss which serves as the axis of rotation.

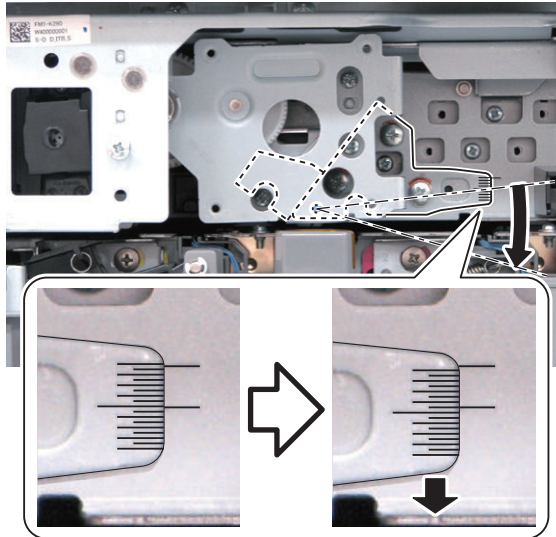


CAUTION:

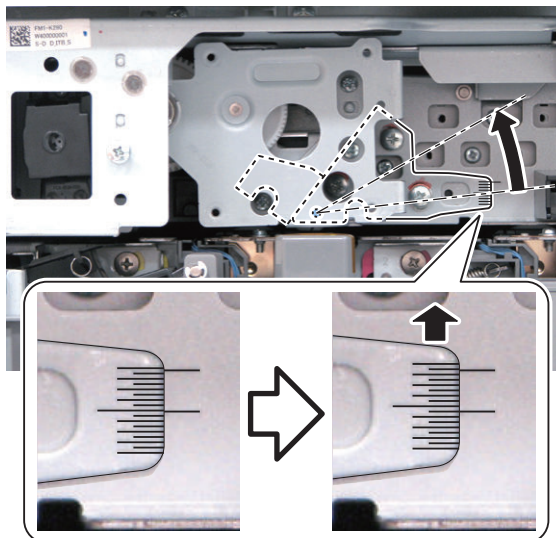
The appropriate range is from -350 to +350.

- Make an adjustment by 1 scale mark (0.5 mm) or less at a time.
- Moving it by 1 scale mark (0.5 mm) changes the values of ITB-POS and ITB-POS2 by approx. 250.
- When moving the scale to the full extent of the range, the value of POS may change significantly and E075 may light up.

- <When the values are above +350>
Rotate the ITB Motor Support Plate clockwise.



- <When the values are below -350>
Rotate the ITB Motor Support Plate counterclockwise.

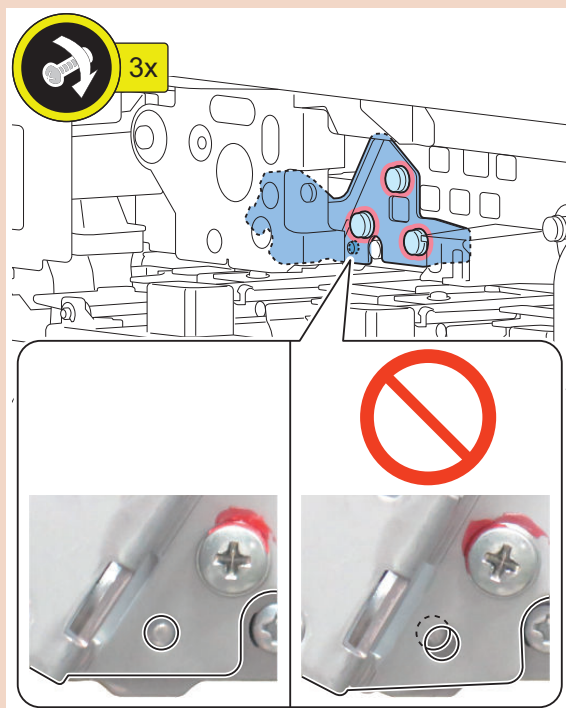




6. Tighten 3 screws loosened on the previous step.

CAUTION:

Be sure that the plate is not placed on the boss which serves as the axis of rotation.



7. Install the ITB Motor. (4 Screws, 1 Connector)



8. Install the ITB Cover (2 screws) and close the Front Cover.



9. Connect the power plug of the host machine to the power outlet.

10. Open the switch cover and turn ON the main power switch.



11. Perform steps 2 to 4 of "Detecting the ITB equilibrium position".

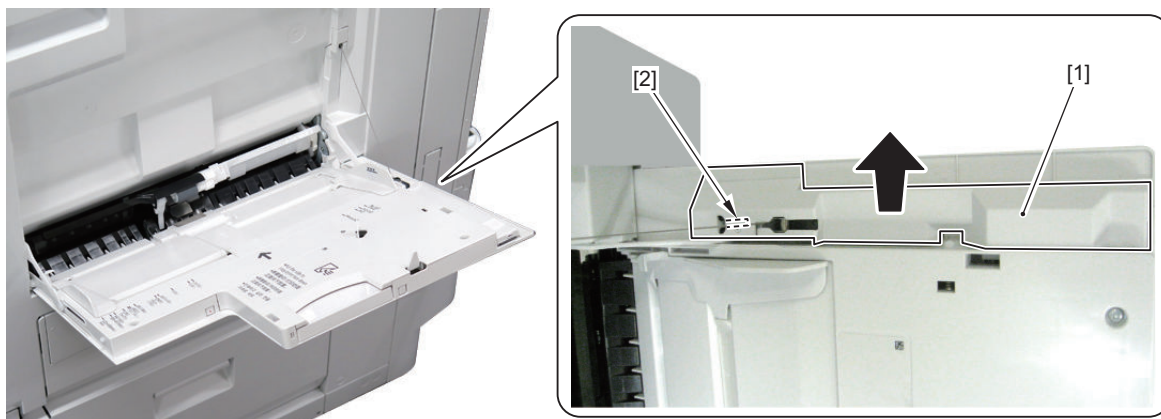
Actions at Parts Replacement

MP Pickup Tray Unit

Actions after Parts Replacement

1. Remove the Wire Cover [1] on the rear side of the MP Pickup Tray Unit [1].

- 1 Hook [2]



2. Enter the values shown on the label on the rear side of the MP Pickup Tray Unit in service mode.

- COPIER > ADJUST > CST-ADJ > MF-A4
- COPIER > ADJUST > CST-ADJ > MF-A5R
- COPIER > ADJUST > CST-ADJ > MF-A4R
- COPIER > ADJUST > CST-ADJ > MF-MAX
- COPIER > ADJUST > CST-ADJ > MF-MIN



3. Install the Wire Cover removed in step 1.

4. Write down the service mode values entered in step 2 on the service label.

DC Controller PCB

How to Replace the Parts: [“Removing the DC Controller PCB” on page 264](#)

Before Parts Replacement

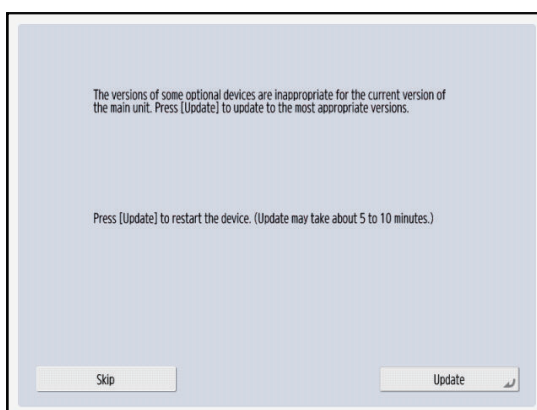
CAUTION:

When replacing the DC Controller PCB, be sure to use a new one. Do not use the DC Controller PCB which was used with another machine.

1. Execute the following service mode to output setting values for just in case of restoration failure of backup data.
COPIER > FUNCTION > MISC-P > P-PRINT
2. Execute the following service mode to back up the service mode setting values.
(Lv.2) COPIER > FUNCTION > SYSTEM > DSRAMBUP
During execution, "ACTIVE" flashes in the status column of the service mode.
It takes approx. 2 minutes. Upon success, [OK!] is displayed in the status column.
3. After confirming that [OK!] is displayed in the status column of the service mode, turn OFF the power of the machine.

■ Works During Parts Replacement

1. If the firmware combination is incorrect, execute an update with the Automatic Update function.



Screen example

CAUTION:

Automatic Update is available only when the following Service Mode settings are at 1 or 2.
(Lv.2) COPIER > OPTION > FNC-SW > VER-CHNG

2. When the setting value data is backed up before parts replacement, execute the following service mode to restore the backed-up setting value data.
(Lv.2) COPIER > FUNCTION > SYSTEM > DSRAMRES
During execution, "ACTIVE" flashes in the status column of the service mode.
It takes approx. 2 minutes. Upon success, [OK!] is displayed in the status column.
3. When setting values cannot be backed up before replacement or when the backed-up data cannot be restored in this step due to reasons such as damage of the DC Controller PCB, enter the values of each service mode item written on the service label or P-PRINT before parts replacement.

● Hard Disk

■ Overview

The following describes the tasks when replacing the HDD.

Note that procedures to backup/restore the data in the HDD is required when replacing the HDD.

Perform backup/restoration based on the following.

Backup List

Backup target data	Backup Method			
	User	Service	DCM	Power OFF
	(excluding DCM)			
Address List	Yes*1	-	Yes*9	-
Forwarding Settings	Yes*1	-	Yes*9	-
Settings / Registration				
Preferences (Except for Paper Type Management Settings)	-	-	Yes*9	Yes*10

Backup target data	Backup Method			
	User	Service	DCM	Power OFF
	(excluding DCM)			
Adjustment/Maintenance	-	-	Yes*9	Yes*10
Function Settings (Except for Printer Custom Settings, Forwarding Settings)	-	-	Yes*9	Yes*10
Set Destination (Except for Address List)	-	-	Yes*9	Yes*10
Management Settings (Except for Address List)	-	-	Yes*9	Yes*10
User authentication information used for local device authentication of UA (User Authentication)	Yes*2	-	Yes*9	-
Printer Settings	Yes*1	-	Yes*9	Yes*10
Set Paper Information	Yes*1	-	Yes*9	-
Setting items for each menu in Main Menu (Copy, Scan and Send, Fax, Scan and Store, Access Stored Files, Fax/I-Fax Inbox)				
Favorite Settings	Yes*1	Yes*8	Yes*9	-
Default Settings	-	Yes*8	Yes*9	-
Shortcut settings for "Options"	-	Yes*8	Yes*9	-
Previous Settings	-	Yes*8	-	-
Setting items for Quick Menu				
Button Size information	-	-	Yes*9	-
Wallpaper Setting	-	-	Yes*9	-
Button information in Quick Menu	-	-	Yes*9	-
Restrict Quick Menu	-	-	Yes*9	-
Setting items for Main Menu				
Button settings in Main Menu	-	-	Yes*9	-
Button settings on the top of the screen	-	-	Yes*9	-
Wallpaper Setting for Main Menu	-	-	Yes*9	-
Other settings for Main Menu	-	-	Yes*9	-
Function Settings > Store/Access Files				
Mail Box Settings (Register Box Name, PIN, Time Until File Auto Delete, Printer upon Storing from Printer Driver)	Yes*4	-	Yes*9	-
Image data in Mail Box, Fax Inbox, and Memory RX Inbox	Yes*4	-	-	-
Network Place Settings	-	-	Yes*9	Yes*10
Web browser settings				
Web Access setting information	-	Yes*8	Yes*9	-
MEAP settings				
MEAP application	-	Yes*8	-	-
License files for MEAP applications	Yes*5	-	-	-
Data saved using MEAP applications	Yes*5	△*8	Yes*9	-
SMS (Service Management Service) password	-	Yes*8	-	-
Universal data settings				
Unsent documents (documents waiting to be sent with the Delayed Send mode)	-	-	-	-
Job logs	-	-	-	-
Audit Log	Yes*6	-	-	-
Key Pair and Server Certificate in Certificate Settings in TCP/IP Settings in Network Settings in System Settings (from the Additional Functions screen)	-	-	Yes*9	-
Auto Adjust Gradation setting values	-	-	-	-
PS font	-	-	-	-
Key information to be used for encryption when TPM is OFF	-	-	-	-
Key and settings information to be used for encryption when TPM is ON	Yes*7	-	-	-
Personal Settings				
Display Language	-	-	Yes*9	-
Accessibility Settings	-	-	Yes*9	-
Default Screen	-	-	Yes*9	-
Default Job Settings	-	-	Yes*9	-

Backup target data	Backup Method			
	User	Service	DCM	Power OFF
	(excluding DCM)			
Quick Menu (Personal, layout of the Personal tab, and background of the Personal tab)	-	-	Yes *9	-
Address Book (Personal/Group)	Yes *1	-	Yes *9	-
Key ring (for host machine functions)	-	-	Yes *9	-
Personal settings of MEAP	Yes *11	Yes *8	Yes *9	-
Service Mode				
Service Mode setting values (MN-CON)	-	-	△*9	Yes*10

*1: Remote UI > Settings/Registration > Management Settings > Data Management > Import or Export

*2: Remote UI > Settings/Registration > Management Settings > User Management > Authentication Management > User Management

*3: Remote UI > Quick Menu > Export

*4: Remote UI > Settings/Registration > Management Settings > Data Management > Back Up or Restore

*5: Remote UI > Service Management Service

*6: Remote UI > Settings/Registration > Management Settings > Device Management > Save Audit Log
Audit log that was exported cannot be put back to the device from which the log was exported.

*7: Settings/Registration > Management Settings > Data Management > TPM Settings

*8: Download mode > [5]: Backup/Restore > [3] : MEAP Backup > Meapback.bin
Backup is possible using SST or USB memory

The data saved using a MEAP application can be backed up only when the MEAP application has a backup function.

*9: Backup Method using DCM When You set it in COPIER> OPTION> USER> SMD-EXPT> ON, a backup/restore is possible in Service Mode Settings from the Remote UI.

There is a backup button on the TOP page of the service mode.

- Remote UI > Settings/Registration > Management Settings > Data Management > Import/Export All
- Remote UI > Settings/Registration > Management Settings > Data Management > Import/Export
- Service mode top screen > BACKUP
- Web Service

*10: The setting value that was set when the main power was turned OFF the last time is automatically backed up to the Flash PCB. When a HDD is replaced with a new one, the setting value is automatically inherited from the Flash PCB at the time of HDD formatting.

*11: iWEMC DAM plug-in

■ Actions before Parts Replacement

1. Backup the required data based on the “Table: Backup List” on page 474.
2. Execute the following service mode and printout the setting data to be ready in case of failing to restore the data.
COPIER > FUNCTION > MISC-P > USER-PRT
COPIER > FUNCTION > MISC-P > P-PRINT

■ Actions after Parts Replacement

1. HDD format
Start the machine in safe mode, and format all partitions using SST or a USB memory.
2. Turning OFF and ON the main power switch.
3. Restoring the backup data
4. Resetting/registering the data
While referring to the list which was printed before replacement, reset/register the data.
5. When the user generates and adds the encryption key, certificate and/or CA certificate, request the user to generate them again.
6. Execute auto gradation adjustment.
 - Execute auto gradation adjustment. Settings/Registration > Adjustment/Maintenance > Adjust Image Quality > Auto Adjust Gradation > Full Adjust

7. Execute register correction pattern.

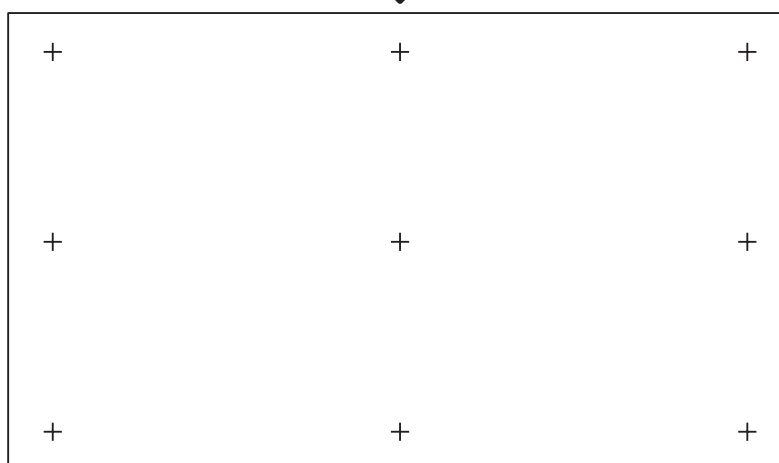
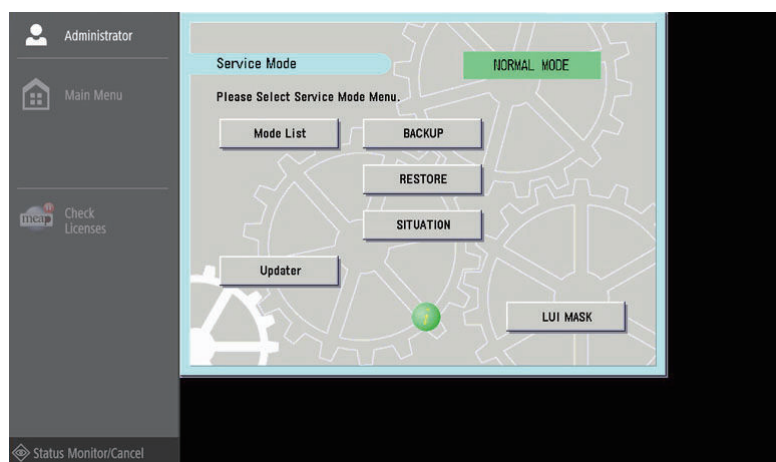
Settings/Registration > Adjustment/Maintenance > Adjust Image Quality > Auto Correct Color Tone Settings > Register Correction Pattern

Control Panel Unit

■ Adjusting Touch Panel

1. If the coordinate on the Touch Panel is not correct, adjustment of the Touch Panel may not be performed. In that case, the Touch Panel can be adjusted by performing the following menu operation using hardware keys.

- Press [5] key 3 times on the service mode top screen.



Laser Scanner Unit

How to Replace the Parts: [“Removing the Laser Scanner Unit” on page 298](#)

■ Actions after Parts Replacement

1. **Execute auto gradation adjustment.**

- Settings/Registration > Adjustment/Maintenance > Adjust Image Quality > Auto Adjust Gradation

2. **Execute horizon scan color displacement correct among process speeds.**

- COPIER > FUNCTION > LASER > H-PS-ADJ

3. **Execute auto color displacement correction.**

- Settings/Registration > Adjustment/Maintenance > Adjust Image Quality > Auto Correct Color Mismatch

4. Execute uneven density correction.

- Settings/Registration > Adjustment/Maintenance > Adjust Image Quality > Correct Shading

ITB Unit

How to Replace the Parts: [“Removing the ITB Unit” on page 303](#)

■ Adjustment after installing ITB Unit

1. After installing the ITB Unit, put the machine into a standby state.
2. When the machine is in a standby state, execute the following service mode.
 - COPIER > Function > MISC-P > ITB-INIT
 - COPIER > Function > MISC-P > DRM-ASPD
3. After execution, check that the values of the following service modes are both within a range of -350 to 350.
 - COPIER > DISPLAY > MISC > ITB-POS
 - COPIER > DISPLAY > MISC > ITB-POS2

CAUTION:

If the values are outside the range, perform [“ITB Alignment Adjustment” on page 469](#).

4. After execution of the service mode, execute the following settings after the machine gets into a standby state.
 - Settings/Registration > Adjustment/Maintenance > Adjust Image Quality > Auto Adjust Gradation
 - Settings/Registration > Adjustment/Maintenance > Adjust Image Quality > Auto Correct Color Mismatch

ITB

How to Replace the Parts: [“Removing the ITB” on page 317](#)

■ Actions after Parts Replacement

1. After installing the ITB Unit, put the machine into a standby state.
2. When the machine is in a standby state, execute auto gradation adjustment.
 - Settings/Registration > Adjustment/Maintenance > Adjust Image Quality > Auto Adjust Gradation
3. After executing auto gradation adjustment, see the alarm log to check that 10-0006/10-0007/10-0022 has not occurred.

When an alarm occurs, perform a remedy according to the instruction of the alarm.
4. Clear the parts counter in the following service mode after replacing the ITB.
 - COPIER > COUNTER > DRBL-1 > TR-BLT

Secondary Transfer Inner Roller

How to Replace the Parts: [“Removing the Secondary Transfer Inner Roller” on page 337](#)

■ Actions after Parts Replacement

1. After installing the ITB Unit, put the machine into a standby state.
2. When the machine is in a standby state, execute auto gradation adjustment.
 - Settings/Registration > Adjustment/Maintenance > Adjust Image Quality > Auto Adjust Gradation
3. Execute the ITB equilibrium position detection in service mode.
 - COPIER > FUNCTION > MISC-P > ITB-INIT

4. After execution, check that the values of the following service modes are both within a range of -350 to 350.

- COPIER > DISPLAY > MISC > ITB-POS
- COPIER > DISPLAY > MISC > ITB-POS2

CAUTION:

If the values are outside the range, perform ["ITB Alignment Adjustment"](#) on page 469 .

5. Clear the parts counter in the following service mode after replacing the Secondary Transfer Inner Roller.

- COPIER > COUNTER > DRBL-1 > 2TR-INRL

Secondary Transfer Roller

How to Replace the Parts: ["Removing the Secondary Transfer Roller/Secondary Transfer Separation Guide Unit"](#) on page 362 ["Installing the Secondary Transfer Roller/Secondary Transfer Separation Guide Unit"](#) on page 364

■ Actions after Parts Replacement

1. Execute the following service mode.

- COPIER > FUNCTION > CLEANING > TNR-COAT

2. Execute auto gradation adjustment.

- Settings/Registration > Adjustment/Maintenance > Adjust Image Quality > Auto Adjust Gradation

3. Clear the parts counter in the following service mode after replacing the Secondary Transfer Roller.

- COPIER > COUNTER > DRBL-1 > 2TR-ROLL

Drum Unit

How to Replace the Parts: ["Removing the Drum Unit"](#) on page 350 ["Installing the Drum Unit"](#) on page 351

■ Actions after Parts Replacement

1. Execute auto gradation adjustment.

- Settings/Registration > Adjustment/Maintenance > Adjust Image Quality > Auto Adjust Gradation

Developing Unit

How to Replace the Parts: ["Removing the Developing Unit"](#) on page 353 ["Installing a New Developing Unit"](#) on page 356

■ Actions after Parts Replacement

CAUTION:

Be sure to perform the work according to the color that was replaced.

1. Execute the following service modes to initialize the Developing Unit.

- COPIER > FUNCTION > INSTALL > INISET-Y
- COPIER > FUNCTION > INSTALL > INISET-M
- COPIER > FUNCTION > INSTALL > INISET-C
- COPIER > FUNCTION > INSTALL > INISET-K
- COPIER > FUNCTION > INSTALL > INISET-4 (Simultaneous initialization of 4 colors)

2. Execute auto gradation adjustment.

- Settings/Registration > Adjustment/Maintenance > Adjust Image Quality > Auto Adjust Gradation

3. After executing auto gradation adjustment, see the alarm log to check if 10-0006/10-0007/10-0022 has been generated. When any of these alarms has been generated, perform the remedy instructed in the alarm.

Patch Sensor

How to Replace the Parts: [“Removing the Registration Patch Sensor \(Front\), \(Middle\), \(Rear\)”](#) on page 307

■ Actions after Parts Replacement

1. **Execute the following service mode to adjust the target value of S-wave light intensity of the Patch Sensor.**
 - COPIER > FUNCTION > INSTALL > PATCH-S
2. **Execute auto gradation adjustment.**
 - Settings/Registration > Adjustment/Maintenance > Adjust Image Quality > Auto Adjust Gradation
3. **After executing auto gradation adjustment, see the alarm log to check that 10-0006/10-0007/10-0022 has not occurred.**

When an alarm occurs, perform a remedy according to the instruction of the alarm.

Reader Controller PCB

How to Replace the Parts: [“Removing the Reader Controller PCB”](#) on page 244

■ Actions before Parts Replacement

1. **Output the latest service mode setting values.**
COPIER > FUNCTION > MISC-P > P-PRINT
2. **Perform back p in the following service mode (Lv.2).**
COPIER > FUNCTION > SYSTEM > RSRAMBUP

■ Actions after Parts Replacement

1. **Upgrade the firmware to make the combination of firmware appropriate so that the machine operates normally.**
 - * The use of automatic update function is recommended.
2. **Depending on the status of backup, perform one of the following measures.**
 - When backup is performed normally
Execute the following service modes to restore the backup data.
 - (Lv.2) COPIER > FUNCTION > SYSTEM > RSRAMRES

NOTE:

Work is completed when backup was normally performed.

- When backup is not performed normally

Enter the values written on the service label (on the back of the Reader Front Cover) in the following service modes.

COPIER > ADJUST > ADJ-XY >
 COPIER > ADJUST > CCD >
 COPIER > ADJUST > PASCAL >
 FEEDER > ADJUST >

List of Service Mode Items to Enter Values

Path for Service Modes	Service Mode Items to Enter Values
COPIER > ADJUST > ADJ-XY >	ADJ-X, ADJ-Y, STRD-POS, ADJ-X-MG, ADJ-Y-DF, ADJY-DF2, ADJ-S
COPIER > ADJUST > CCD >	SH-TRGT, DFTBK-R, DFCH-R2, DFCH2R2, W-PLT-X, DFTBK-G, DFCH-R10, DFCH2R10, W-PLT-Y, DFTBK-B, DFCH-G2, DFCH2G2, W-PLT-Z, DFTBK-BW, DFCH-G10, DFCH2G10, DFTAR-R, 100-RG, DFCH-B2, DFCH2B2, DFTAR-G, 100-GB, DFCH-B10, DFCH2B10, DFTAR-B, 100DF2RG, DFCH-K2, DFCH2K2, DFTAR-BW, 100DF2GB, DFCH-K10, DFCH2K10, MTF-M1, MTF-S1, MTF2-M1, MTF2-S1, MTF-M2, MTF-S2, MTF2-M2, MTF2-S2, MTF-M3, MTF-S3, MTF2-M3, MTF2-S3, MTF-M4, MTF-S4, MTF2-M4, MTF2-S4, MTF-M5, MTF-S5, MTF2-M5, MTF2-S5, MTF-M6, MTF-S6, MTF2-M6, MTF2-S6, MTF-M7, MTF-S7, MTF2-M7, MTF2-S7, MTF-M8, MTF-S8, MTF2-M8, MTF2-S8, MTF-M9, MTF-S9, MTF2-M9, MTF2-S9, MTF-M10, MTF-S10, MTF2-M10, MTF2-S10, MTF-M11, MTF-S11, MTF2-M11, MTF2-S11, MTF-M12, MTF-S12, MTF2-M12, MTF2-S12
COPIER > ADJUST > PASCAL >	OFST-P-Y, OFST-P-M, OFST-P-C, OFST-P-K
FEEDER > ADJUST >	LA-SPEED, LA-SPD2, DOCST, DOCST2

3. In following service mode, calculate the MTF filter coefficient.

- COPIER > FUNCTION > CCD > MTF-CLC

4. In following service mode, calculate for matching paper front and back linearity.

- COPIER > FUNCTION > CCD > DF-LNR

5. In following service mode, execute either AB or Inch configuration tray width adjustment.

- To execute AB configuration adjustment
 - Align the Slide Guide with "A4/A3".
 - Select the service mode, press the OK key, and register the width of A4.
 - FEEDER > FUNCTION > TRY-A4
 - Align the Slide Guide with "A5R".
 - Select the service mode, press the OK key, and register the width of A5R.
 - FEEDER > FUNCTION > TRY- A5R
- To execute Inch configuration adjustment
 - Align the Slide Guide with "LTR/11x17".
 - Select the service mode, press the OK key, and register the width of LTR.
 - FEEDER > FUNCTION > TRY-LTR
 - Align the Slide Guide with "STMT/LTRR/LGL".
 - Select the service mode, press the OK key, and register the width of LTRR.
 - FEEDER > FUNCTION > TRY- LTRR

6. In the following service mode, output P-PRINT.

- COPIER > FUNCTION > MISC-P > P-PRINT

Keep the output P-PRINT in service book case.

Scanner Unit (Paper Front)

■ Actions after Parts Replacement

1. Enter the values written on the label included with the Scanner Unit.

COPIER > ADJUST > CCD > 100-RG
 COPIER > ADJUST > CCD > 100-GB

2. Adjust the shading position.

COPIER > FUNCTION > INSTALL > RDSHDPOS

3. Adjust the stream reading position.

COPIER > FUNCTION > INSTALL > STRD-POS

4. Adjust the white level.

Prepare a sheet of A3 or 11x17 size paper.

1. Place the paper on the Copyboard Glass.
COPIER > FUNCTION > CCD > DF-WLVL1
2. Place the paper on the ADF Document Pickup Tray.
COPIER > FUNCTION > CCD > DF-WLVL2
3. Place the paper on the Copy Board Glass.
COPIER > FUNCTION > CCD > DF-WLVL3
4. Place the paper on the ADF Document Pickup Tray.
COPIER > FUNCTION > CCD > DF-WLVL4

5. Execute the following service mode to calculate the MTF filter coefficient.

COPIER > FUNCTION > CCD > MTF-CLC

6. Write down the following service mode values in the service label (on the back of the Reader Front Cover).

COPIER > ADJUST > CCD > 100-RG
 COPIER > ADJUST > CCD > 100-GB
 COPIER > ADJUST > CCD > SH-TRGT
 COPIER > ADJUST > CCD > DFTAR-R
 COPIER > ADJUST > CCD > DFTAR-G
 COPIER > ADJUST > CCD > DFTAR-B
 COPIER > ADJUST > CCD > DFTAR-BW

Scanner Unit (Paper Back)

■ Actions after Parts Replacement

1. Enter the values written on the label included with the Scanner Unit.

COPIER > ADJUST > CCD > 100DF2GB
 COPIER > ADJUST > CCD > 100DF2RG

2. Adjust the shading position.

COPIER > FUNCTION > INSTALL > RDSHDPOS

3. Adjust the stream reading position.

COPIER > FUNCTION > INSTALL > STRD-POS

4. Adjust the white level.

Prepare a sheet of A3 or 11x17 size paper.

1. Place the paper on the Copyboard Glass.
COPIER > FUNCTION > CCD > DF-WLVL1
2. Place the paper on the ADF Document Pickup Tray.
COPIER > FUNCTION > CCD > DF-WLVL2
3. Place the paper on the Copy Board Glass.
COPIER > FUNCTION > CCD > DF-WLVL3
4. Place the paper on the ADF Document Pickup Tray.
COPIER > FUNCTION > CCD > DF-WLVL4

5. Execute the following service mode to calculate the MTF filter coefficient.

COPIER > FUNCTION > CCD > MTF-CLC

6. Write down the following service mode values in the service label (on the back of the Reader Front Cover).

COPIER > ADJUST > CCD > 100-RG
 COPIER > ADJUST > CCD > 100-GB
 COPIER > ADJUST > CCD > DFTBK-R
 COPIER > ADJUST > CCD > DFTBK-G
 COPIER > ADJUST > CCD > DFTBK-B
 COPIER > ADJUST > CCD > DFTBK-BW

Copyboard Glass

■ Actions after Parts Replacement

1. Enter the value (XXXXXXXXZZZZ) shown on the Barcode Label affixed at the upper right of the Copy Board Glass.

COPIER > ADJUST > CCD > W-PLT-X

COPIER > ADJUST > CCD > W-PLT-Y

COPIER > ADJUST > CCD > W-PLT-Z



2. Adjust the shading position.

COPIER > FUNCTION > INSTALL > RDSHDPOS

3. Set the target value of B&W shading.

COPIER > FUNCTION > CCD > BW-TGT

4. Adjust the white level. Prepare a sheet of A3 or 11x17 size paper.

1. Set a sheet of paper on the Copyboard Glass.
COPIER > FUNCTION > CCD > DF-WLVL1
2. Set a sheet of paper on the ADF Document Pickup Tray.
COPIER > FUNCTION > CCD > DF-WLVL2
3. Set a sheet of paper on the Copyboard Glass.
COPIER > FUNCTION > CCD > DF-WLVL3
4. Set a sheet of paper on the ADF Document Pickup Tray.
COPIER > FUNCTION > CCD > DF-WLVL4

5. Write the service setting values on the service label inside of the reader front cover.

COPIER > ADJUST > CCD > SH-TRGT

COPIER > ADJUST > CCD > DFTAR-R

COPIER > ADJUST > CCD > DFTAR-G

COPIER > ADJUST > CCD > DFTAR-B

COPIER > ADJUST > CCD > DFTAR-BW

COPIER > ADJUST > CCD > DFTBK-G

COPIER > ADJUST > CCD > DFTBK-B

COPIER > ADJUST > CCD > DFTBK-R

COPIER > ADJUST > CCD > DFTBK-BW



Troubleshooting

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Initial Check

Item	No.	Detail	Check
Site Environment	1	The voltage of the power supply is as rated ($\pm 10\%$).	
	2	The site is not a high temperature / humidity environment (near a water faucet, water boiler, humidifier), and it is not in a cold place. The machine is not near a source of fire or dust.	
	3	The site is not subject to ammonium gas.	
	4	The site is not exposed to direct rays of the sun. (Otherwise, provide curtains.)	
	5	The site is well ventilated, and the floor keeps the machine level.	
	6	The machine's power plug remains connected to the power outlet.	
Checking the Paper	7	The paper is of a recommended type.	
	8	The paper is not moist. Try paper fresh out of package.	
Checking the Placement of Paper	9	Check the cassette and the manual feed tray to see if the paper is not in excess of a specific level.	
	10	If a transparency is used, check to make sure that it is placed in the correct orientation in the manual feed tray.	
Checking the Durables	11	Check the table of durables to see if any has reached the end of its life.	
Checking the Periodically Replaced Parts	12	Check the scheduled servicing table and the periodically replaced parts table, and replace any part that has reached the time of replacement.	

Test Print

Overview

This machine have the following test print TYPE and you can judge the image failure that is checked as “Yes” in the following image check items with each test print.

If the image failure occurred on normal output does not reappear on the test print, it may be caused by the PDL input or reader side.

PG TYPE	TYPE Pattern	Items										Originator
		Grada-tion	Fog-ging	Trans-fer Fault	Black line (Color line)	White line	Uneven Density	Un-even-Density at the Front / Rea	Right Angle	Straight Lines	Color dis-placement,	
0	Normal copy / print											----
1 to 3	--- (For R&D)											----
4	16 gra-dations	Yes	Yes			Yes		Yes				Main control-ler PCB
5	Full half-tone			Yes	Yes	Yes	Yes	Yes				Main control-ler PCB
6	Grid								Yes	Yes	Yes	Main control-ler PCB
7 to 9	--- (For R&D)											----
10	MCYBk horizon-tal stripes (sub scanning direc-tion)				Yes	Yes		Yes				Main control-ler PCB
11	--- (For R&D)											----
12	64-gra-dation	Yes	Yes			Yes						Main control-ler PCB
13	--- (For R&D)											----
14	Full color 16-gra-dation	Yes	Yes									Main control-ler PCB
15 to 100	--- (For R&D)											----

■ Steps to select the test print TYPE

1. Set the number of print, paper size etc.
2. Select: COPIER > TEST > PG.
3. Select: COPIER > TEST > PG > TYPE.
4. Enter the desired TYPE number and press OK key.
5. Select the corresponding color (setting 1 means output) in COLOR-Y/M/C/K.

6. Set the density in DENS-Y/M/C/K (this is enabled for TYPE=5 only).
7. Press start key.

How to use the test print

■ 16 gradations (TYPE=4)



This test print is for mainly checking the gradation, fogging, white line and uneven density at front & rear.

Check item	Check method	Assumed cause
Gradation	Check that 16 density gradation is properly reproduced.	Failure of Drum Unit (end of life)
		Failure of Laser Scanner Unit
Fogging	Check that fogging occurs on white image area only.	Failure of Drum Unit (end of life)
		Failure of Laser Scanner Unit
White line	Check that white line does not appear on entire image.	Failure of Developing Assembly
Uneven density at front & rear	Check that uneven density does not appear at front & rear.	Failure of Photosensitive Drum (approx. 94mm)
		Failure of Developing Cylinder (approx. 63mm)

■ Full half tone (TYPE=5)



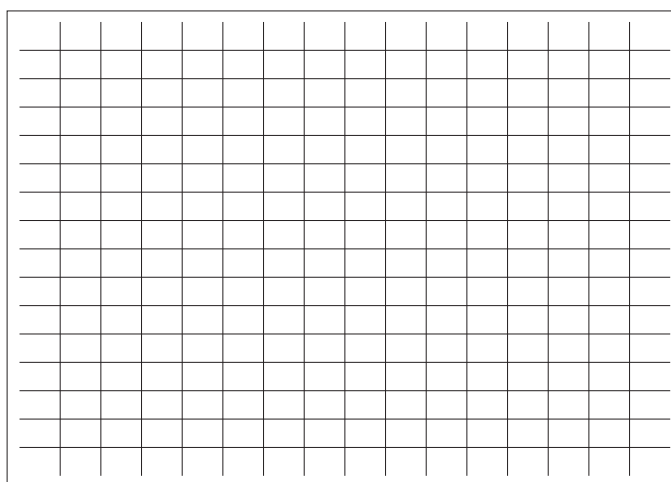
This test print is for mainly checking the black line, white line and uneven density.

NOTE:

1. Select: service mode > COPIER > TEST > PG and specify developing color "COLOR-Y/M/C/K" to output the print by developing color.
2. To change the density of test print, select: service mode > TEST > PG > DENS-Y/M/C/K and set the density.

Check item	Check method	Assumed cause
Transfer failure	Check that the transfer failure does not appear on entire image.	Failure of ITB (scratch, dirt)
		Failure of Primary Transfer Roller (scratch, dirt)
		Failure of Secondary Transfer Roller (scratch, dirt)
Black line (color line)	Check that black line does not appear on entire image.	Scratch on Photosensitive Drum
		Dirt on Primary Charging Roller
White line	Check that white line does not appear on entire image.	Failure of ITB Unit
		Failure of Secondary Transfer Outer Roller
		Dirt on laser light path
Uneven pitch	Check that uneven pitch does not appear on entire image.	Failure of Photosensitive Drum (approx. 94mm)
		Failure of Developing Cylinder (approx. 63mm)
Uneven density	Check that uneven density does not appear on entire image.	Dirt on Dustproof Glass
		Deterioration of ITB

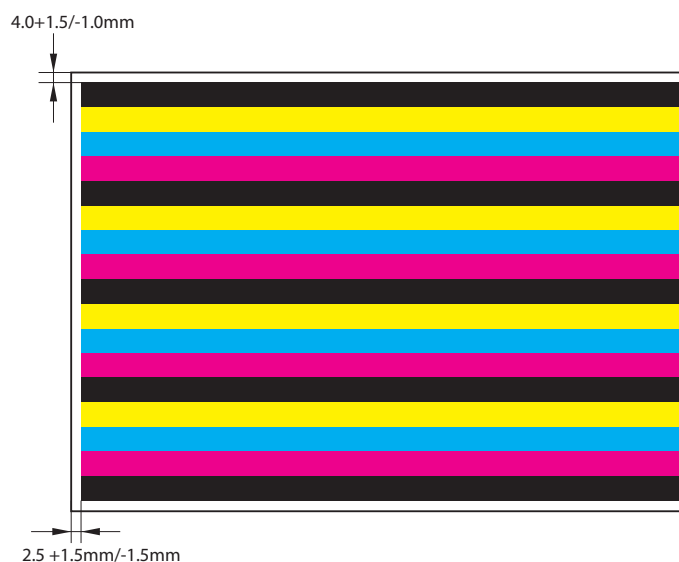
■ Grid (TYPE=6)



This test print is for mainly checking the color displacement, right angle accuracy and straight line accuracy.

Check items	Check method	Assumed cause
Uneven density	Check that uneven density does not appear on solid area of each color	Failure of Laser Scanner Unit
		Failure of developer in Developing Assembly
		Failure of Primary Transfer Roller
Black line (color line)	Check that black line (color line) does not appear on solid area of each color	Scratch on Photosensitive Drum
		Dirt on Primary Charging Roller
White line	Check that white line does not appear on solid area of each color	Failure of ITB Unit
		Failure of Secondary Transfer Outer Roller
		Dirt on Laser Light Path

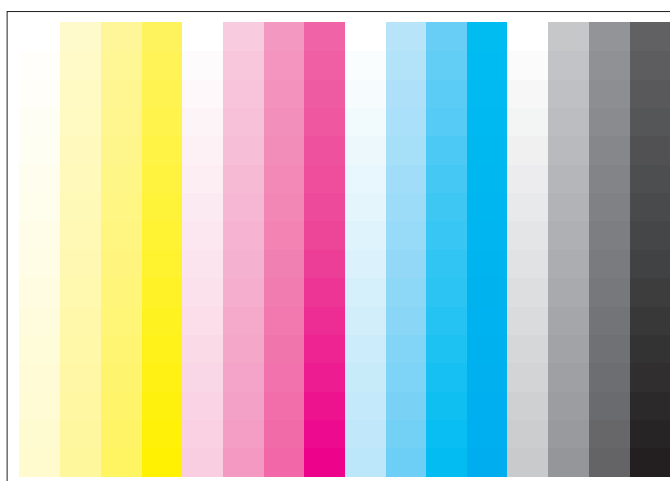
■ MCYBk horizontal stripe (TYPE=10)



This test print is for mainly checking the dark area density of each color, each color balance and white line on development.

Check items	Check method	Assumed cause
Uneven density	Check that uneven density does not appear on solid area of each color	Failure of Laser Scanner Unit
		Failure of developer in Developing Assembly
		Failure of Primary Transfer Roller
Black line (color line)	Check that black line (color line) does not appear on solid area of each color	Scratch on Photosensitive Drum
		Dirt on Primary Charging Roller
White line	Check that white line does not appear on solid area of each color	Failure of ITB Unit
		Failure of Secondary Transfer Outer Roller
		Dirt on Laser Light Path

■ 64-gradations (TYPE=12)

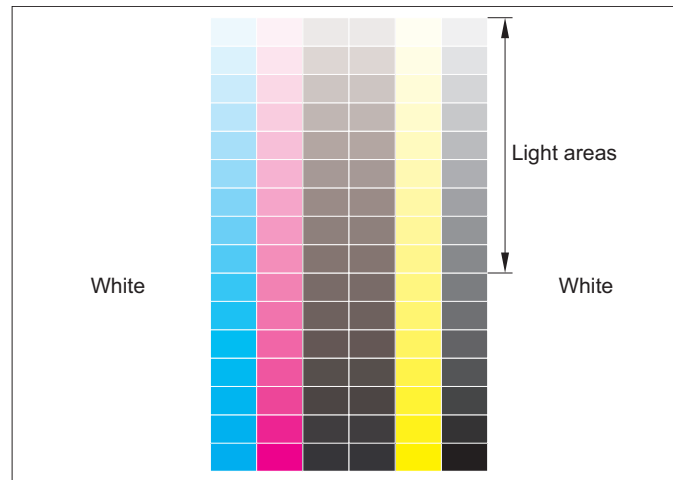


This test print is for mainly checking the gradations of YMCBk single color at one time.

Check item	Check method	Assumed cause
Gradation	Check that 64 gradations density is properly reproduced.	Failure of Drum Unit (end of life)
		Failure of Laser Scanner Unit
Fogging	Check that fogging appears on white image area only.	Failure of Drum Unit (end of life)
		Failure of Laser Scanner Unit

Check item	Check method	Assumed cause
White line	Check that there is no white line on entire image.	Failure of Developing Assembly

■ Full color 16-gradations (TYPE=14)

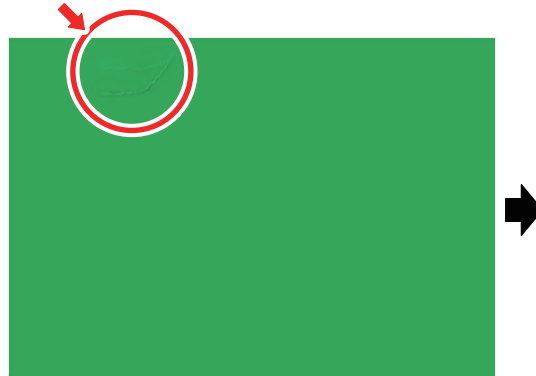


This test print is for mainly checking the gray balance, gradations of YMCBk single color and fogging.

Check item	Check method	Assumed cause
Gradation	Check that 64 gradations density is properly reproduced in each color.	Failure of Drum Unit (end of life)
		Failure of Laser Scanner Unit
Fogging	Check that fogging appears on white image area only.	Failure of Drum Unit (end of life)
		Failure of Laser Scanner Unit
Gray balance	Check that density is even in each color on gray scale area.	Failure of Drum Unit (end of life)

Troubleshooting Items

Fixing Wrinkle/Jams Caused by Deterioration in the Rib of the Fixing Inlet Guide



[Location]

Fixing Inlet Guide

[Cause]

When making 2-sided copies of solid image continuously in high temperature & high humidity environment, rib side on the Fixing Inlet Guide is deteriorated and resin part may be scraped.

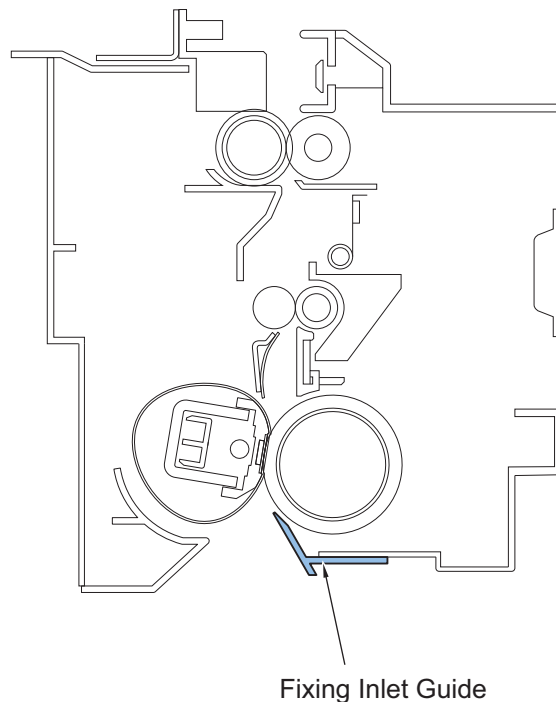
This causes the paper leading edge to be caught by the scraped rib when it enters the Fixing Inlet Guide, generating a slack in the paper and causing wrinkles in the paper and jams.

[Condition]

When making 2-sided copies of solid image continuously in high temperature & high humidity environment.

[Field Remedy]

1. Clean the Fixing Inlet Guide and the Shutter Cover.
2. Replace the Fixing Inlet Guide.



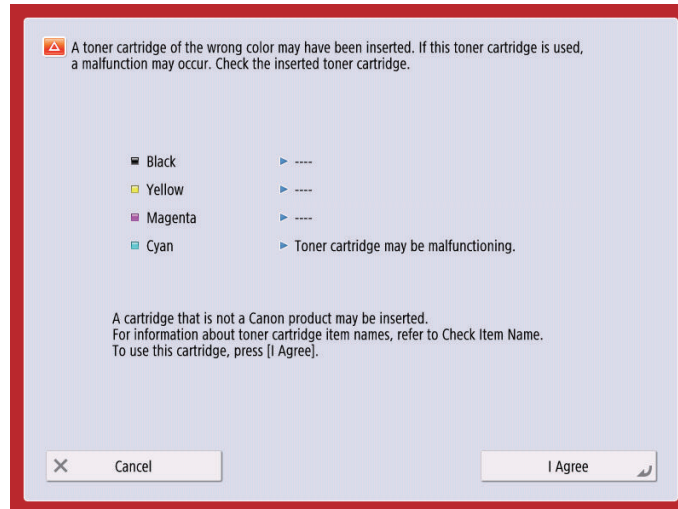
Display of "Non-Canon Product" Message

The following shows the remedy to be performed when a "non-Canon product" message is displayed even though Canon-made toner, drums, and Fixing Units are used.

Remedy:

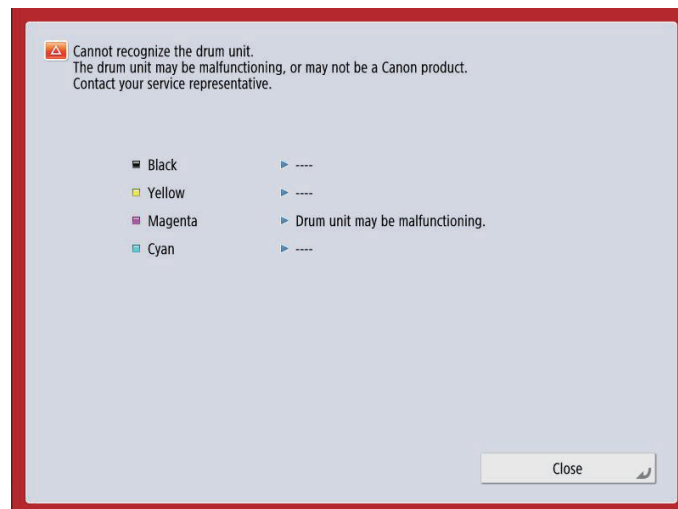
Perform a remedy according to the instruction of the alarm.

1. Toner Bottle



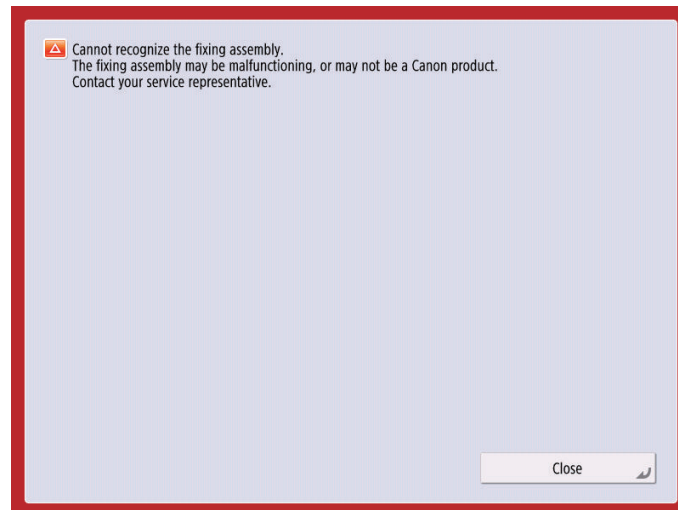
Alarm code: At the same time, 10-0091 - 0094 occurs.

2. Drum Unit



Alarm code: At the same time, 09-0010 - 0013 occurs.

3. Fixing Assembly



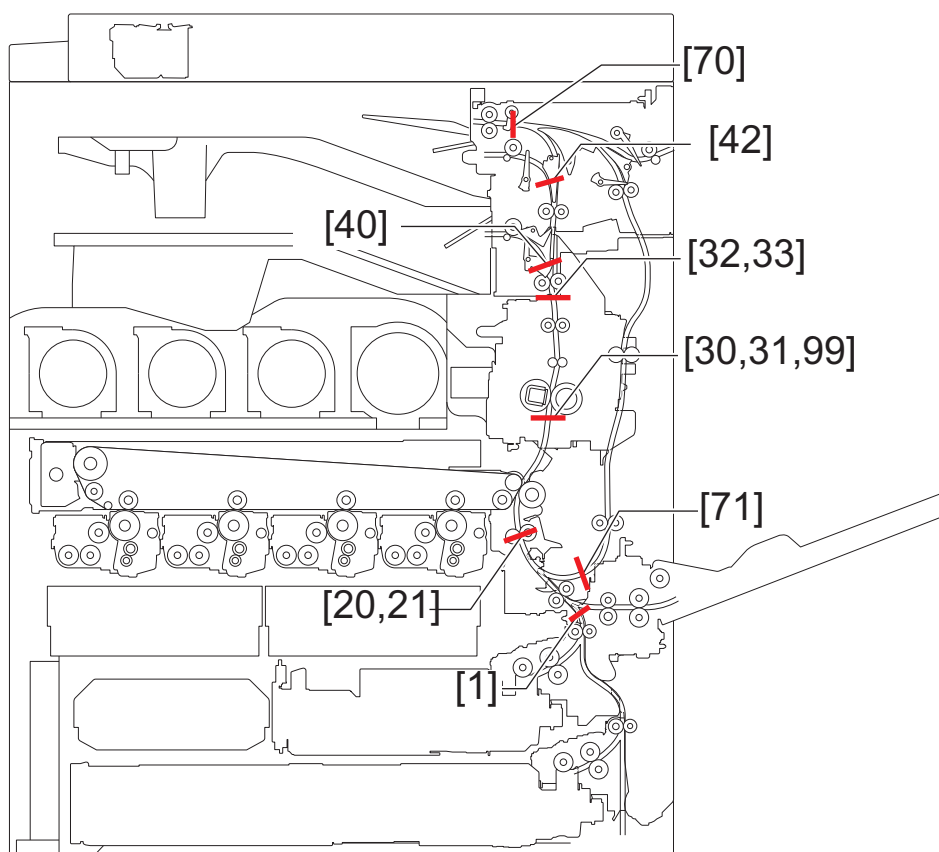
Alarm code: At the same time, 06-0012 occurs.

Forcible stop of paper feed

[Function Overview]

Forcibly stop the paper at a specified position.

Next time a job occurs, the paper is forcibly stopped at the stop position (leading edge) shown in the figure



[Use case]

- When bent paper/skew/wrinkles occur
- When jam occurs frequently
- When checking an image on the ITB

[Points to note when using]

- Remove the paper being stopped with the normal jam removal procedure. After jam removal, the job is automatically recovered.
- Display of standard jam code indicates that a jam occurs somewhere other than the specified position.
- When a job in which the paper does not pass the specified stop position is executed, the setting to forcibly stop the paper becomes disabled.
- Unfixed toner may be attached depending on the stop position. Use caution when handling it.

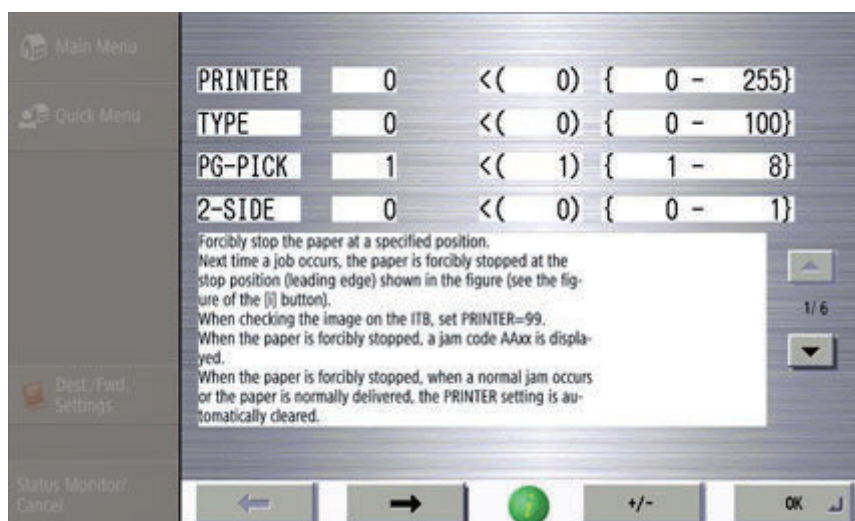
[How to use]

Use this function from SITUATION mode.

Service Mode > SITUATION > Troubleshooting > Forcible stop of paper feed

The following service modes can be operated from this SITUATION mode.

- COPIER > TEST > P-STOP > PRINTER
- COPIER > TEST > PG > TYPE
- COPIER > TEST > PG > PG-PICK
- COPIER > TEST > PG > 2-SIDE
- COPIER > TEST > PG > COLOR-Y
- COPIER > TEST > PG > COLOR-M
- COPIER > TEST > PG > COLOR-C
- COPIER > TEST > PG > COLOR-K
- COPIER > TEST > PG > DENS-Y
- COPIER > TEST > PG > DENS-M
- COPIER > TEST > PG > DENS-C
- COPIER > TEST > PG > DENS-K
- COPIER > TEST > PG > F/M-SW

**[Stop positions and check items]**

Items that can be checked differ depending on the position where paper stops.

Check for fold/skew/crease/operation check/jam/checking of image on ITB with reference to the table below.

Stop position		Fold	Skew	Crease	Operation check / Jam	Checking on image on ITB
0	OFF	-	-	-	-	-
1	Outlet of the Cassette Pickup Assembly	Yes	Yes	-	Yes	-
20	Registration Roller	Yes	Yes	-	Yes	-
21	Registration Roller (2nd side)	Yes	Yes	-	Yes	-
30	Inlet of the Fixing Assembly	Yes	Yes	Yes	Yes	Yes
31	Inlet of the Fixing Assembly (2nd side)	Yes	Yes	Yes	Yes	Yes
32	Outlet of the Fixing Assembly	Yes	Yes	Yes	Yes	Yes
33	Outlet of the Fixing Assembly (2nd side)	Yes	Yes	Yes	Yes	Yes
40	Outlet of the First Delivery *1	Yes	-	-	Yes	-

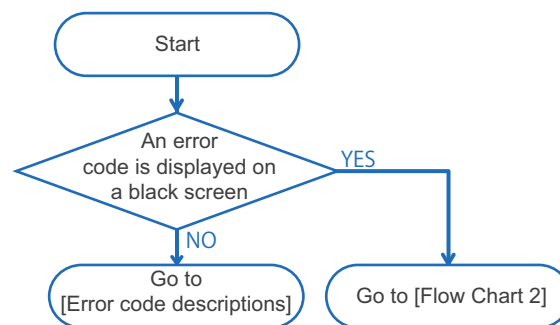
Stop position		Fold	Skew	Crease	Operation check / Jam	Checking on image on ITB
42	Outlet of the Second Delivery *1	Yes	-	-	Yes	-
70	Reverse Mouth *2	Yes	Yes	-	Yes	-
71	Duplex standby position *2	Yes	Yes	-	Yes	-
99	Inlet of the Fixing Assembly (1st side, for checking image)	-	-	-	-	Yes

*1 : Paper may not be stopped depending on the delivery destination setting.

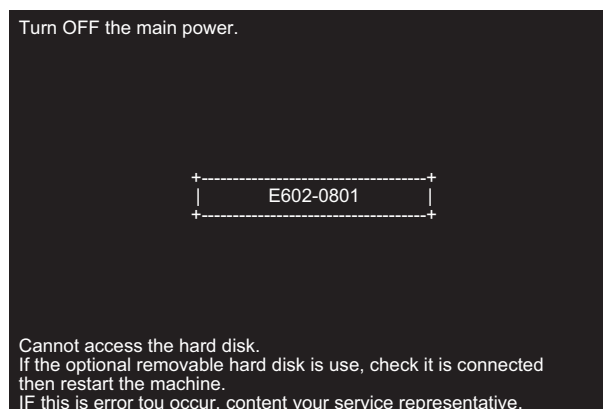
*2 : Paper is stopped after being reversed for a 2-sided job.

Remedies to be performed when E602-xxxx or E614-xxxx error is displayed

Remedy procedure for E602 or E614 differs according to the status of the screen where error is displayed. Check the remedy procedure by referring to the following flow chart.



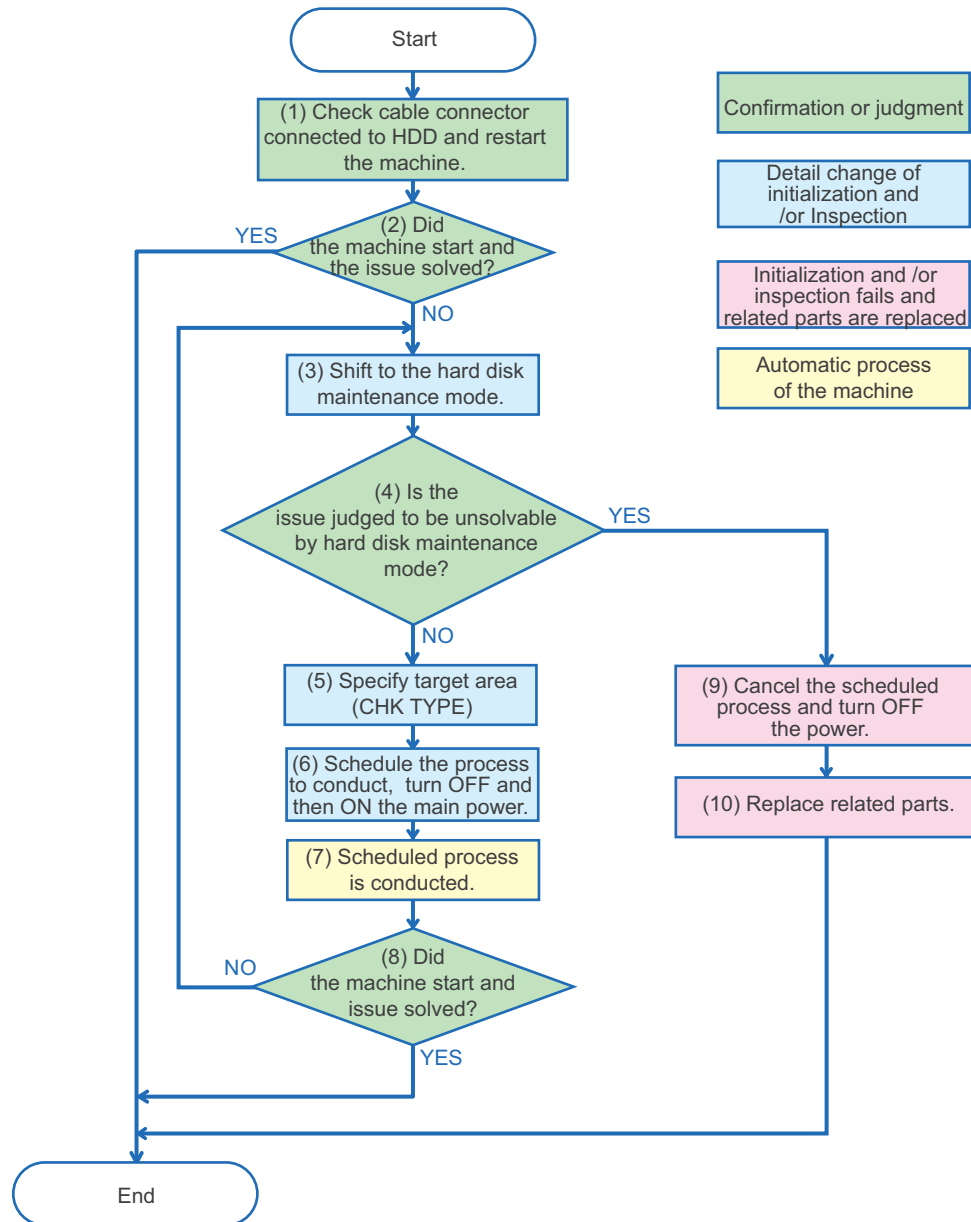
Flow Chart 1



Display Sample : If an error code is displayed on a black screen

Execute a remedy described in service mode by referring to [Error / Jam / Alarm](#) in the Service Manual.

If an error code and a message is displayed on a black screen (as above), shift to the hard disk maintenance mode referring to the Flow Chart 2 and execute the remedy described in [Error / Jam / Alarm](#) in the Service Manual.



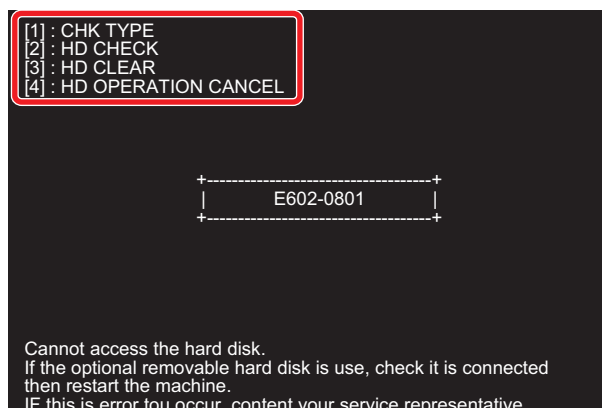
Flow Chart 2

CAUTION:

Numbers in the Flow Chart 2 are corresponding to the procedure numbers. Check the remedy procedure by referring to the flow chart.

1. Check cable connector connected to the hard disk and restart the machine.
2. Check if the machine is started normally. If the machine is started normally, the analysis is complete.

3. If the machine is not started normally, execute key operation to shift to the service mode for shifting to hard disk maintenance mode.

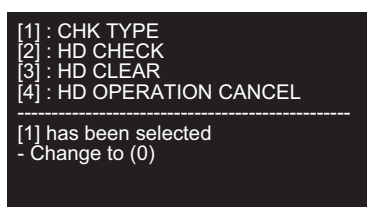


Example of hard disk maintenance mode screen

4. Determine if the issue is solved in the hard disk maintenance mode.

- Proceed to 5 for diagnosis for the first time or trying to restore with the hard disk maintenance mode.
- If the issue cannot be solved by hard disk maintenance (HD-CHECK/HD-CLEAR is not executed or issue unsolved even executed), proceed to 9.

5. Press "1" of Numeric Keypad, then two digits number to specify the target area (CHK TYPE).



CAUTION:

The CHK - TYPE to be specified needs to be entered in two digits even the number to be specified is one digit. Enter "01" to specify "1" and enter "04" to specify "4".

For example, in the case of the display (E602-0801), specify No. 8 because Partition No. 8 is in error. (Enter the number as "08")

If you made a mistake, press "1" again then enter two digits number.

6. Specify and schedule the process stated as a remedy for error code by referring to the Flow chart No.6, "Error / Jam / Alarm" in the Service Manual. Then turn OFF and then ON the main power of the machine.

- To schedule disk check (COPIER > FUNCTION > SYSTEM >HD-CHECK), select [2]:HD-CHECK.
- To schedule formatting (COPIER / FUNCTION / SYSTEM /HD-CLEAR), select [3]:HD CLEAR.

NOTE:

When the menu [2] to [4] is selected, key cannot be re-entered. If you made a wrong selection, Turn OFF and then ON the main power of the machine, shift to hard disk maintenance mode and specify again.

7. Scheduled process is automatically executed.

8. If the process is complete and the machine is restarted normally, analysis is complete.

The same black screen and the error code is displayed, shift back to the hard disk maintenance mode and conduct other maintenance.

9. Consider the HDD cannot be restored, select [4] and cancel the schedule. Switch OFF the main power of the machine.

```
[1] : CHK TYPE
[2] : HD CHECK
[3] : HD CLEAR
[4] : HD OPERATION CANCEL
-----
[4] has been selected
Turn OFF the main power.
```

CAUTION:

Replacing HDD without canceling the schedule causes the scheduled process is executed to replaced HDD at the next normal startup.

When replacing parts, specify [4] to cancel the schedule.

10. Refer to the Service Manual to replace the related parts.

NOTE:

Related parts for E602

- Harness between main controller PCB and the HDD
- HDD
- Main Controller PCB

Related parts for E614

- Flash PCB
- Main Controller PCB

Startup System Failure Diagnosis

Overview

The purpose of this diagnosis is to identify the cause when the host machine would not start up.

A combination of the following three identification methods is used to identify the cause.

- A method for identifying the failure on the basis of the LED/LCD display status
- A method for identifying the failure on the basis of the power supply/signal route
- Identification of the location of the controller-related failure with the controller self-diagnosis function

The diagnosis is made according to the startup system failure diagnosis flow in order to perform basic identification of the cause and perform the remedy.

If it turned out that the failure was caused by the controller or the Power Supply Assembly, perform a controller self-diagnosis or check the Power Supply Assembly, and perform the remedy.

If the diagnosis result shows that replacement of parts is required, perform the works in the order shown below.

1. Check if the connectors (of a cable, etc.) are connected properly.
2. Replace the cable.
3. Replace the parts.

After performing the works shown above, be sure to restart the host machine and check if the symptom occurs again.

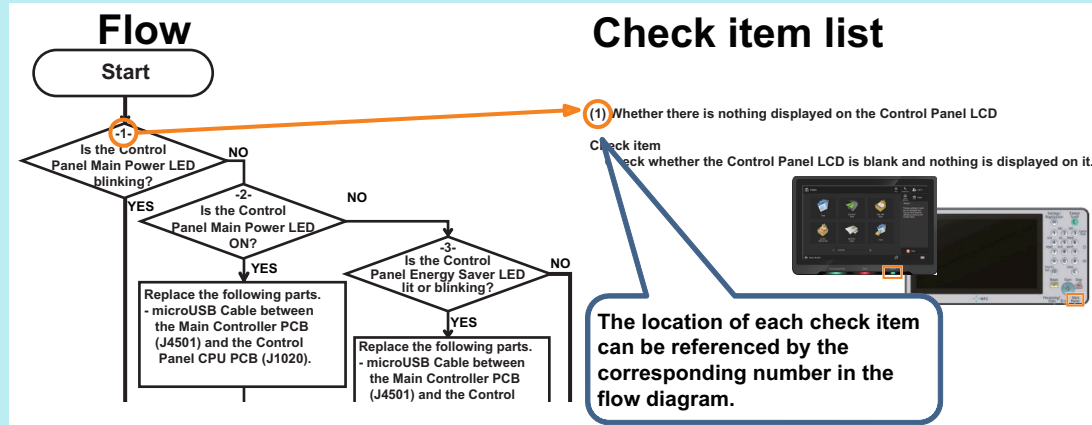
WARNING:

When a tester is used to perform a power check, the AC voltage may be measured. There is a possibility of electrical shock, so caution is required during the work.

NOTE:

The numbers such as (1) and (2) shown in the flow diagram indicate that there is a check item table showing the items to be checked in the flow chart, location, and procedure.

Each number in the flow diagram is linked with the item number of the corresponding check item table to be referenced.



CAUTION:

Before using a tester to perform a check, be sure to turn OFF the Environment Heater Switch.

If a check is performed with the Environment Heater Switch ON, the diagnosis may not be performed correctly.

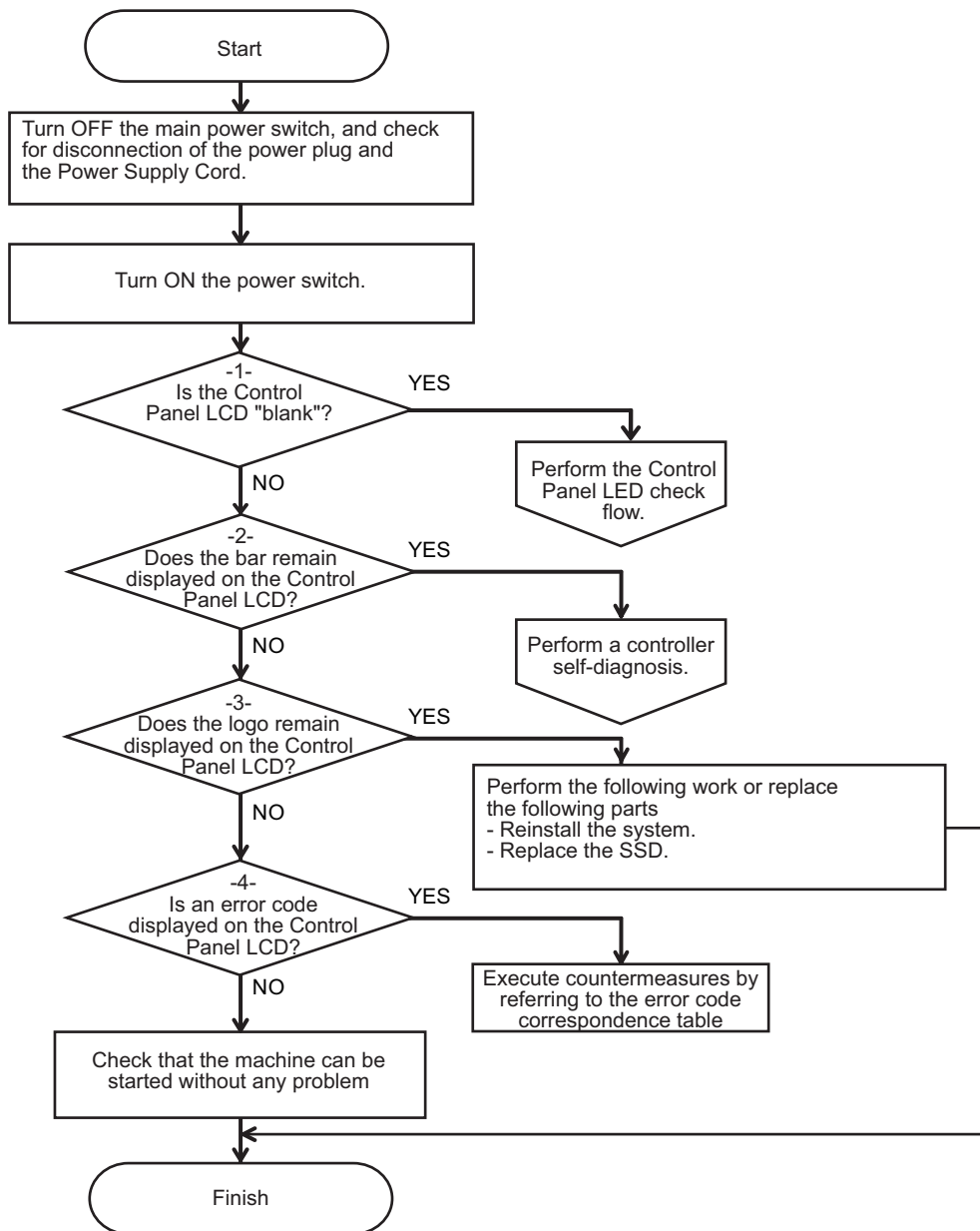
NOTE:

When replacing the cable, disconnect the cable from the connector and check the continuity.

Basic Flow

If the host machine would not start up, follow the flow shown below to identify the location of the trouble.

If a number (1) or (2) is shown in a flow chart box, be sure to make a judgement according to the check item table.



(1) Whether there is nothing displayed on the Control Panel LCD

Check item

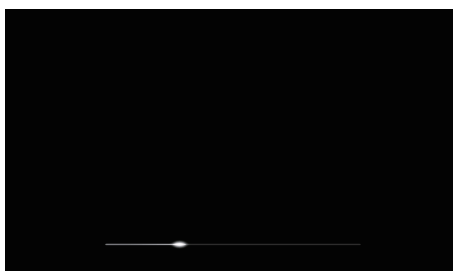
Check whether the Control Panel LCD is blank and nothing is displayed on it.



If it is blank, see [“Control Panel LED Check Flow”](#) on page 502 to perform the remedy.

(2) Whether the bar remains displayed on the Control Panel LCD**Check item**

Check whether the bar remains displayed on the Control Panel LCD.



If the bar remains displayed, see [“Controller Self Diagnosis” on page 508](#) to perform the remedy.

(3) Whether the logo remains displayed on the Control Panel LCD**Check item**

Check whether the logo remains displayed on the Control Panel LCD.

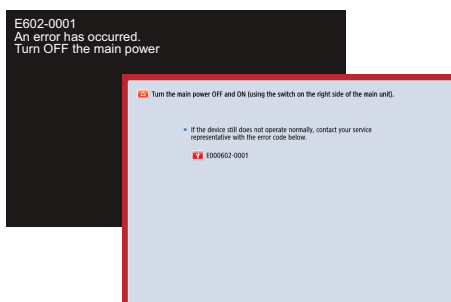


If the logo remains displayed, re-install the system software or replace the HDD.

- See the Chapter 4, "Firmware Management" of the "imageRUNNER ADVANCE System Service Manual" to re-install the system software.
- See the Chapter 4, "Parts Replacement and Cleaning Procedure > Main Controller System" of this manual to replace the HDD.

(4) Whether an E code is displayed on the Control Panel LCD**Check item**

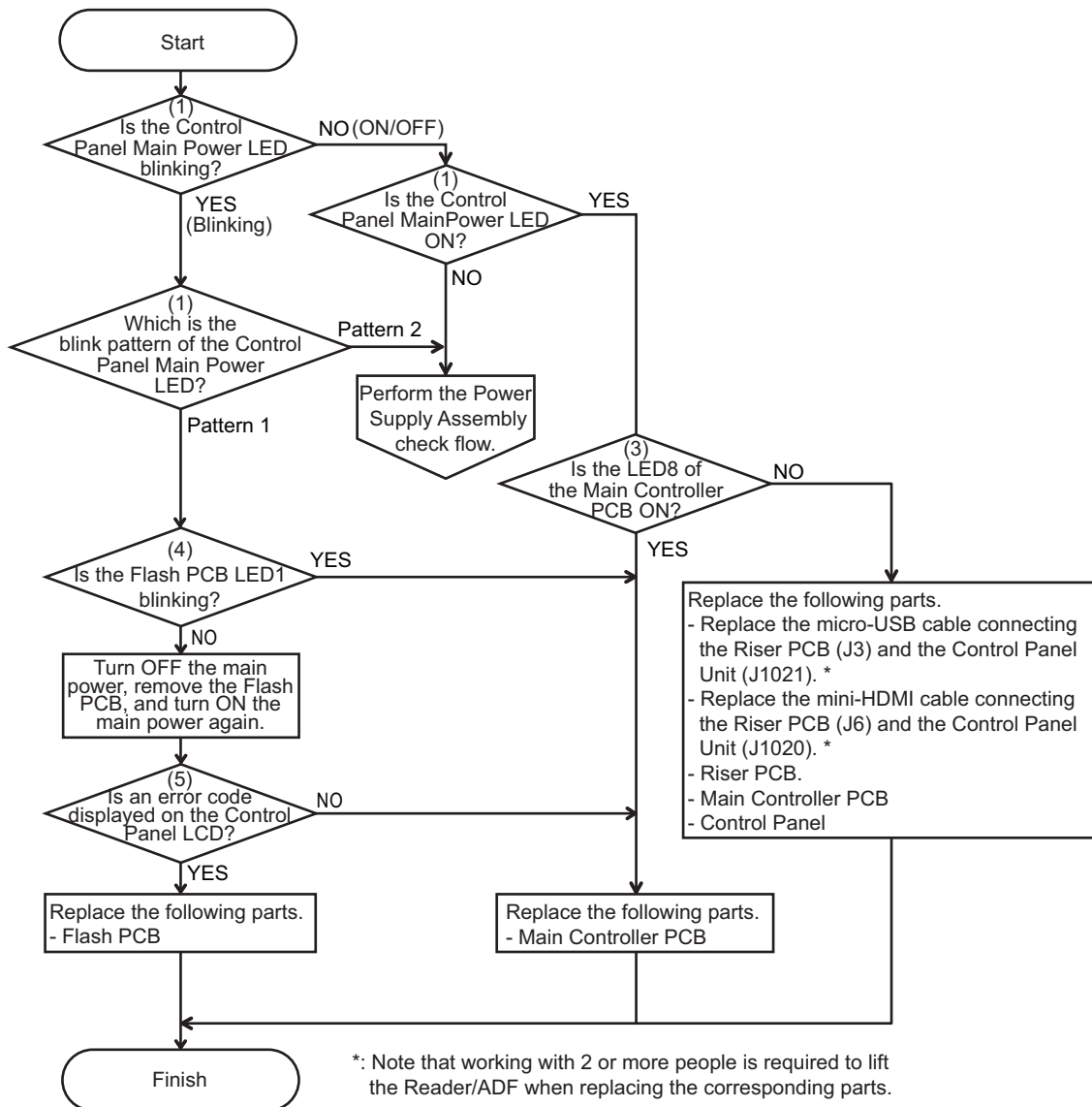
Check whether an E-code is displayed on the Control Panel LCD.

**Display sample of an E-code**

If an displayed error code starts with E602 or E614, see [“Remedies to be performed when E602-xxxx or E614-xxxx error is displayed” on page 495](#) to perform the remedy.

If the error codes other than above is displayed, see [“Error Code” on page 536](#) to perform the remedy.

■ Control Panel LED Check Flow



Follow the flow shown below to identify the location of failure according to the Control Panel LED status and take measurements. If a number (1) or (2) is shown in a flow chart box, be sure to refer to the check item table and make a judgment.

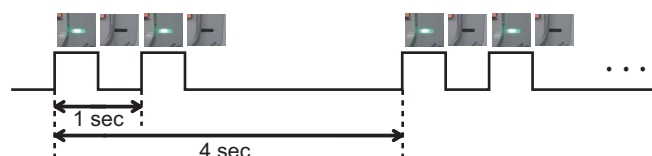
(1) Control Panel Main Power LED is blinking / ON

Check item

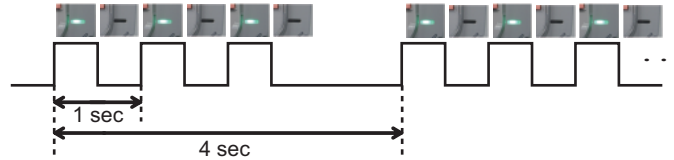
Blink pattern of the Control Panel Main Power LED



Pattern 1 (The Main Power LED blinks 2 times in 4 seconds: Controller error)



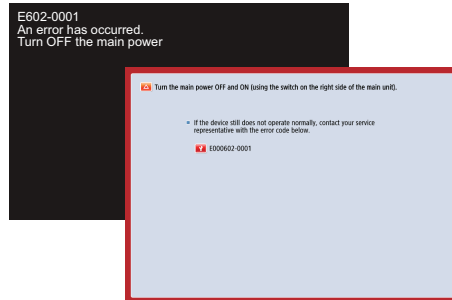
Pattern 2 (The Main Power LED blinks 3 times in 4 seconds: Power Supply error)



(2) E-code is displayed on the Control Panel LCD

Check item

Check whether E-code is displayed on the Control Panel.

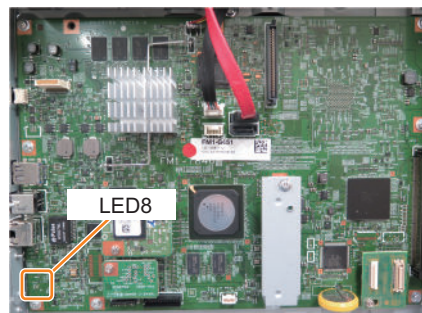


E-code display example

(3) Is the LED8 of the Main Controller PCB ON?

Check item

Check whether the LED8 of the Main Controller PCB is ON.

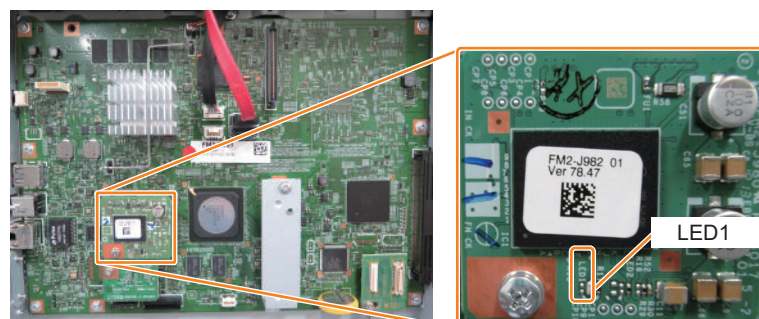


Reference example

(4) Is the LED8 of the FLASH PCB blinking?

Check item

Check whether the LED2 of the FLASH PCB is blinking.

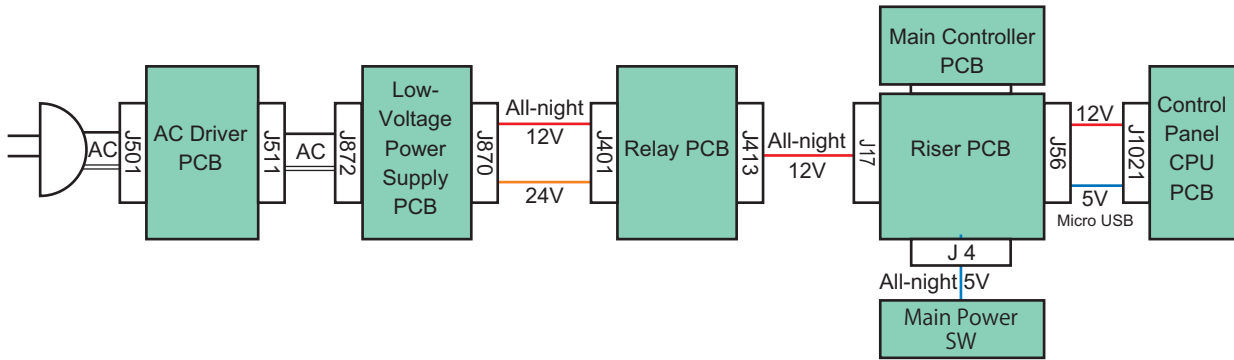


Reference example

■ Power Supply Assembly Check Procedure

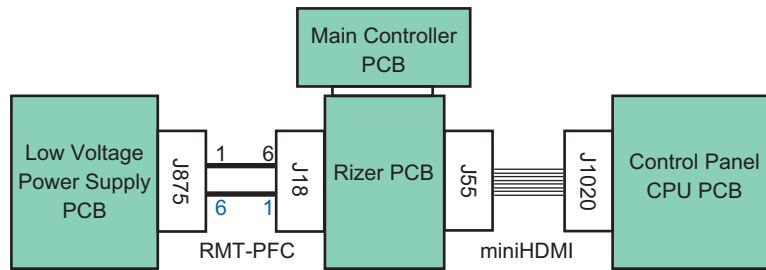
● Over view

If power is not supplied to the Control Panel CPU PCB, the location of the problem can be identified by checking the PCB, jack, and pins supplying power to the PCB.



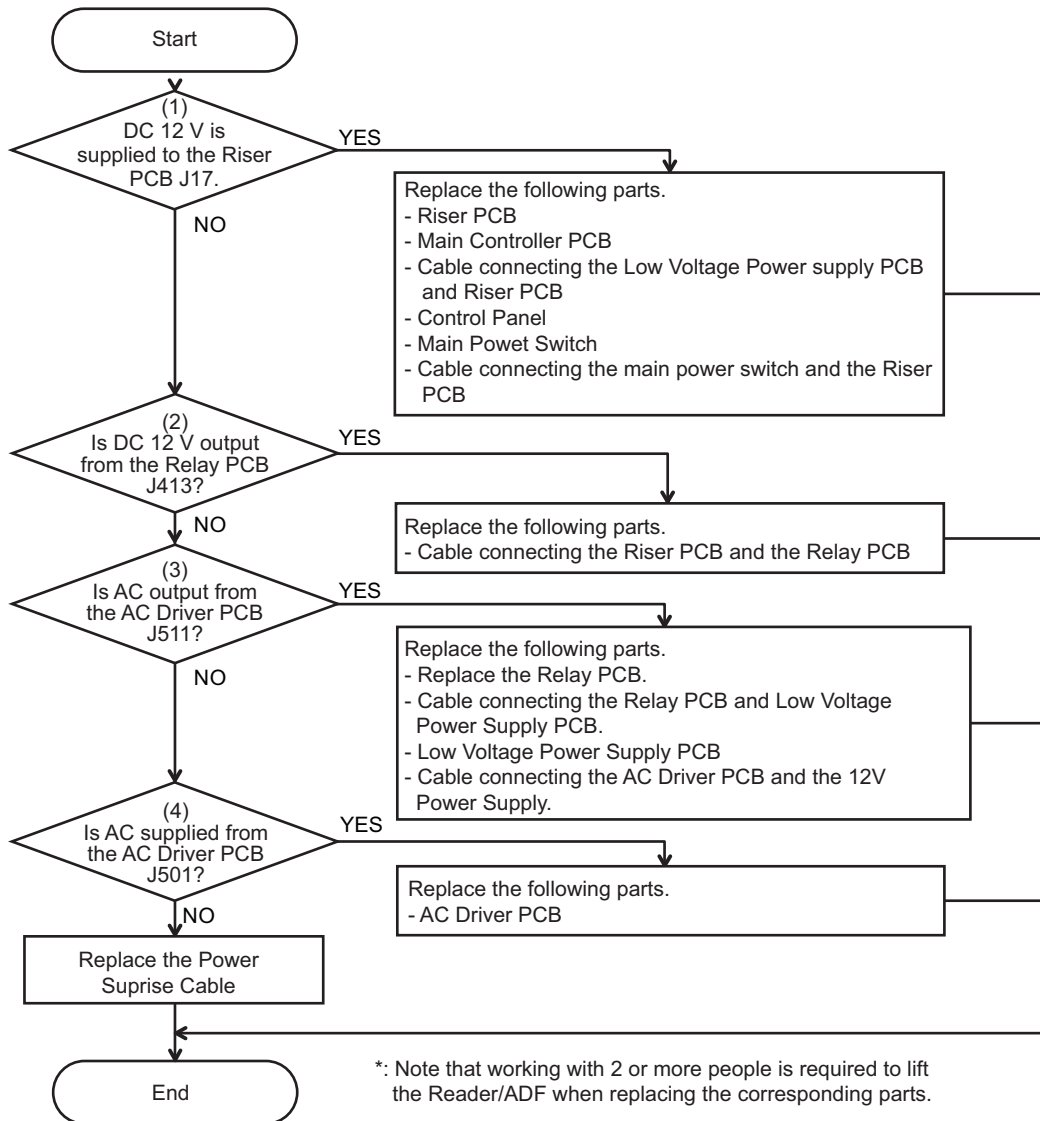
Power Supply Assembly Block Diagram

12 V power is output when AC power is supplied from the AC Driver PCB to the Low Voltage Power Supply PCB. If there is no problem with the power supply route, it may be a problem with the signal route.



Signal Block Diagram

Refer to the flow shown below, and solve the power supply system trouble.



Power Supply System Check Flow

• Check Procedure

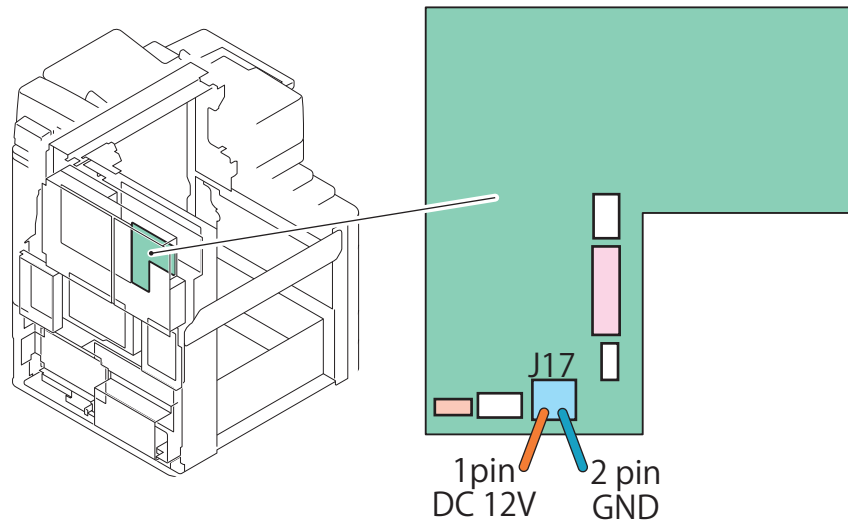
(1) Check whether DC 12V is supplied to the Riser PCB J17.

Check item

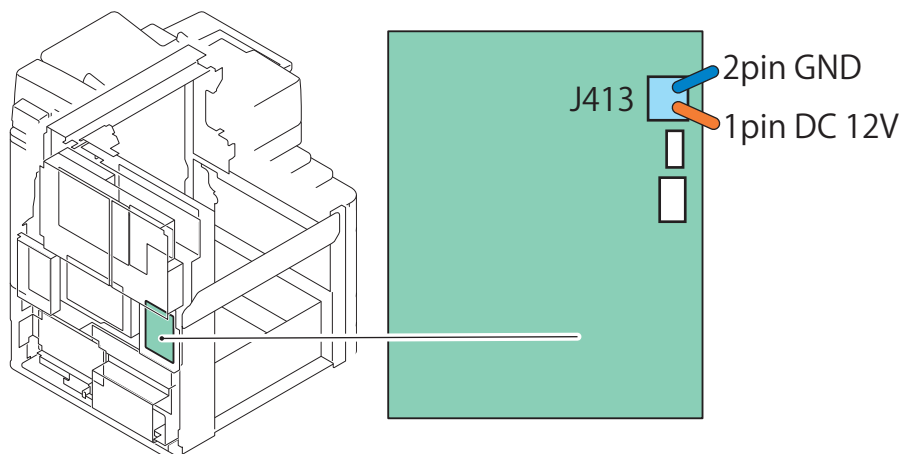
Connector side of the Riser PCB J17.

[1] pin (12V) and [2] pin (GND)

Normal value: DC 12V

Check point**(2) Check whether DC 12V is output from the Relay PCB J413.****Check item**

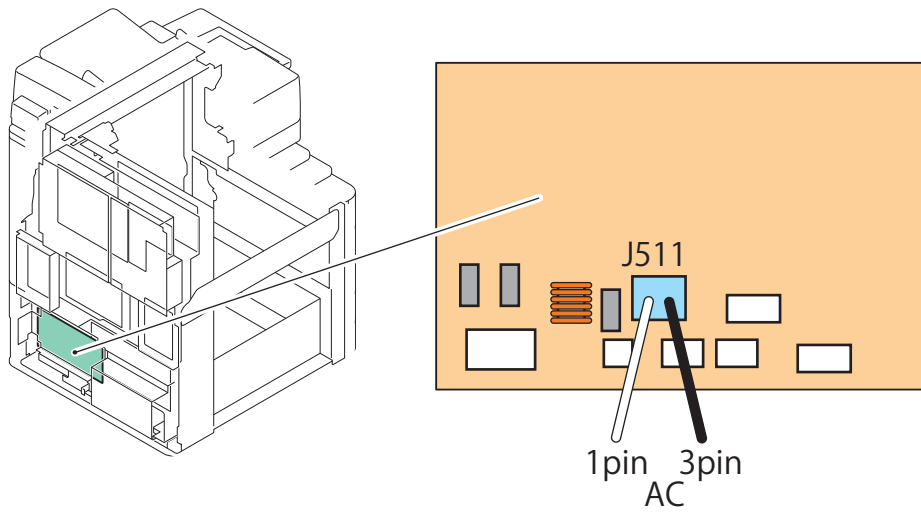
Connector side of the Relay PCB J413
 [1] pin (12V) and [2] pin (GND)
 Normal value: DC 12V

Check point**(3) Check whether the AC power is supplied from the AC Driver PCB J511.****Check item**

Connector side of the AC Driver PCB J511
 [1] pin and [3] pin
 Normal value: Same as AC input voltage

CAUTION:

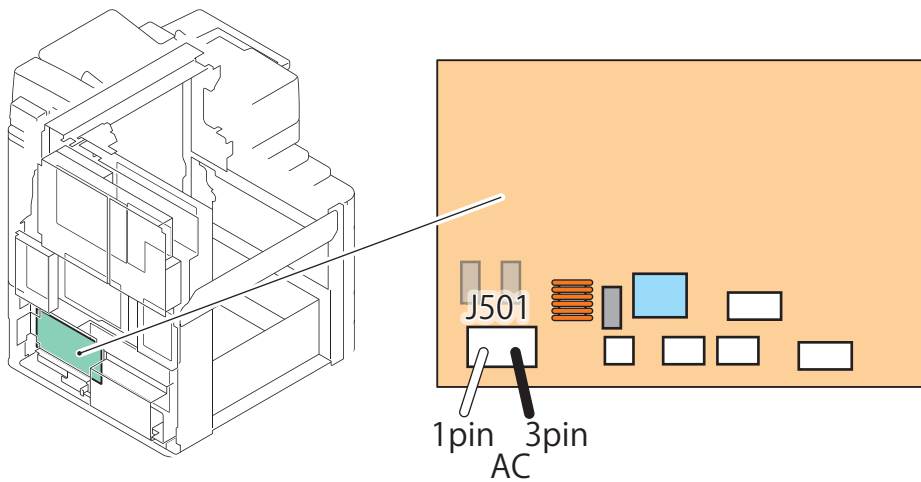
Be careful when you measure the AC voltage.

Check point**(4) Check whether the AC power is supplied to the AC Driver PCB J501.****Check item**

Connector side of the AC Driver PCB J501
 [1] pin and [2] pin
 Normal value: Same as AC input voltage

CAUTION:

Be careful when you measure the AC voltage.

Check point

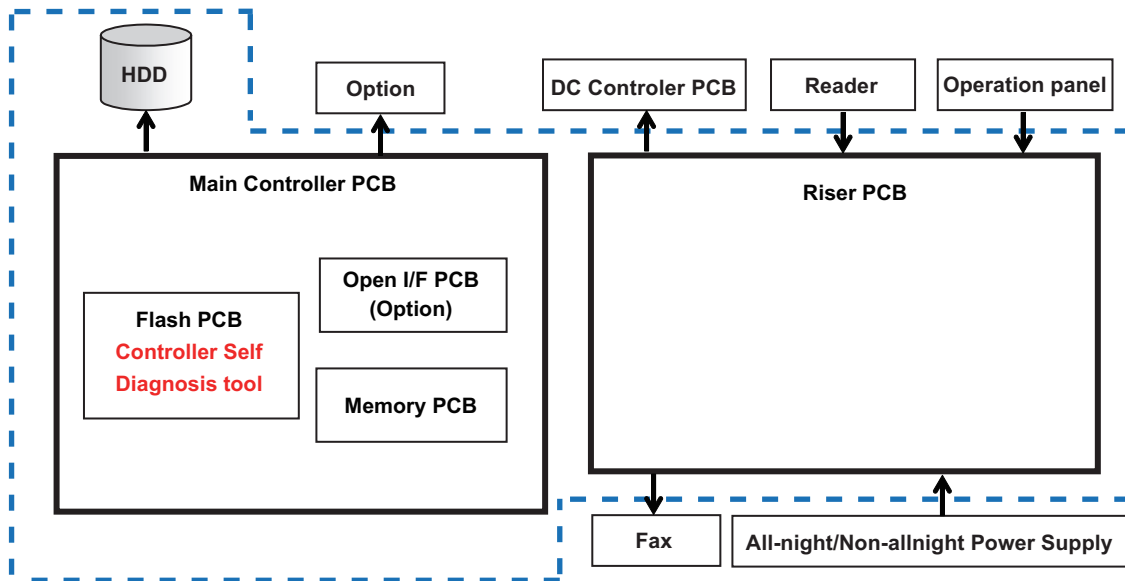
Controller Self Diagnosis

In order to reduce the time for identifying the cause of error occurred in the field and improve the accuracy of identifying the error locations, operation of the controller system error diagnosis tool added to the host machine and the remedies for errors are described.

This manual can be used when the host machine is in the following conditions.

- When a failure of the Main Controller PCB and the related PCBs (child PCBs such as TPM installed on the Main Controller PCB) is suspected

PCBs and units diagnosed by the tool are as follow:

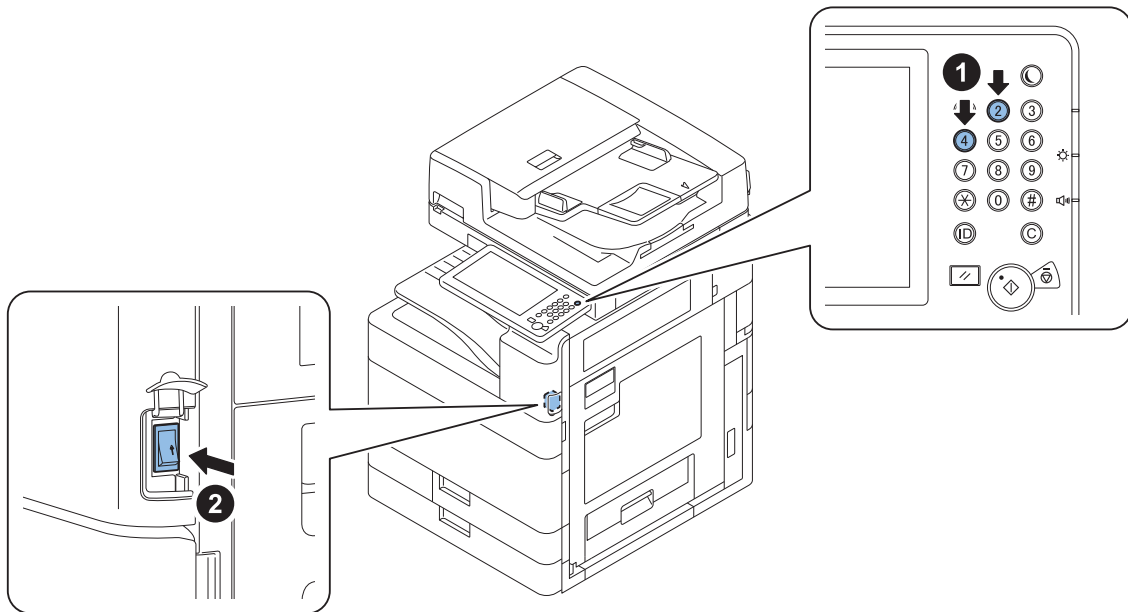


The area framed in blue (dotted line) in the figure shows the components to be checked by the controller system error diagnosis tool.

The Main Controller PCB, child PCBs installed on the Main Controller PCB and HDD are automatically checked, and the result is displayed on the Control Panel.

Boot Method

1. Turn ON the Main Power Supply Switch while pressing the numeric keys '2' and '4' simultaneously.



2. Keep pressing the numeric keys (for approx. 20 seconds) until the following screen appears on the Control Panel.

```

=====
BOX Checker Ver 0. 58
SCENARIO-1 Processing BoxMode check start. . .

-----
SN-1 IA-DDR2 SDRAM check start. . .
  
```

NOTE:

When this tool is not installed correctly, the regular Startup screen is displayed.



In this case, perform the following remedy.

Turn OFF the Main Power Switch again, and execute steps 1 and 2 shown above.

If this tool still does not boot, it means that BCT (Box Checker Test) is deleted, so install BCT.

If BCT is not installed correctly, "- - . - -" is displayed in Service Mode (BCT) in the host machine.

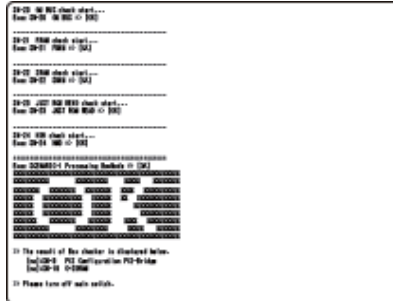
- COPIER > DISPLAY > VERSION > BCT

Diagnosis Result

Diagnosis Time

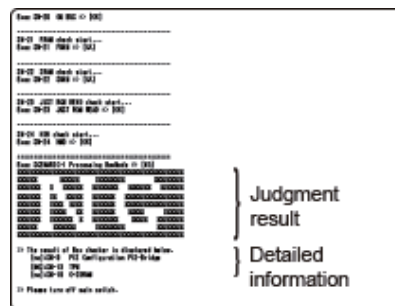
Diagnosis is completed in approx. 3 minutes.
The result is displayed on the Control Panel.

When the diagnosis result is normal



When an error is detected by diagnosis

Detailed information is displayed under the judgment result. In detailed information, the name of the test where the error was detected is displayed.



How to view the error result

The following screen is an enlarged view of the detailed information indicated above.
Explanation of the detailed error information is described.

```
>> The result of Box checker is displayed below.
[no] : SN-9 PCI Configuration PCI-Bridge
[NG] : SN-13 TPM
[no] : SN-19 O-SDRAM

>> Please Turn off main switch.
```

[NO] means that optional PCBs are not mounted.

A fault has occurred when [NO] is displayed irrespective of whether the Option PCB is attached.

[NG] means that an error occurred to PCBs mounted as standard.

Controller Self Diagnosis Table

The error locations are identified according to the following table.

Test name	Detailed test name	Presumed failure location	Remedy	Relevant Error Code
SN-1 MN- DDR3 SDRAM	Check the SDRAM of the Main Controller PCB	• Main Controller PCB	Replacement of the Main Controller PCB	-
SN-2 SM BUS MN DDR3 On Board	Check the circuit in the Main Controller PCB	• Main Controller PCB	Replacement of the Main Controller PCB	-
SN-6 PCI Con- figuration	Check the circuit in the Main Controller PCB	• Main Controller PCB	Replacement of the Main Controller PCB	-

Test name	Detailed test name	Presumed failure location	Remedy	Relevant Error Code
SN-9 CPLD	Check the circuit in the Main Controller PCB	<ul style="list-style-type: none"> Main Controller PCB 	Replacement of the Main Controller PCB	-
SN-10 LANC FLASH	Check the circuit in the Main Controller PCB	<ul style="list-style-type: none"> Main Controller PCB 	Replacement of the Main Controller PCB	-
SN-11 RTC CHECK	Check RTC setting time	<ul style="list-style-type: none"> Main Controller PCB 	Replacement of the Main Controller PCB	-
SN-12 TPM	Check TPM PCB device Remarks: It is always [NG] in machines for China because the TPM PCB is not installed.	<ul style="list-style-type: none"> Main Controller PCB TPM PCB 	<ol style="list-style-type: none"> Replacement of the TPM PCB Replacement of the Main Controller PCB 	E746
SN-13 M-DDR3 SDRAM	Check the circuit in the Main Controller PCB	<ul style="list-style-type: none"> Main Controller PCB Riser PCB 	Replacement of the Main Controller PCB	-
SN-14 FLASH ROM	Check the circuit in the Main Controller PCB	<ul style="list-style-type: none"> Main Controller PCB 	Replacement of the Main Controller PCB	-
SN-15 P-DDR3 SDRAM	Check the circuit in the Main Controller PCB	<ul style="list-style-type: none"> Main Controller PCB 	Replacement of the Main Controller PCB	-
SN-17 S-DDR3 SDRAM	Check the circuit in the Main Controller PCB	<ul style="list-style-type: none"> Main Controller PCB 	Replacement of the Main Controller PCB	-
SN-18 GOR(O)-DDR2 SDRAM	Check the circuit in the Open I/F PCB	<ul style="list-style-type: none"> Main Controller PCB Open I/F PCB 	<ol style="list-style-type: none"> Check the connection of the Open I/F PCB Replace the Open I/F PCB Replace the Main Controller PCB. Remarks: [NO] is displayed when the Open I/F PCB is not installed.	-
SN-19 GU BUS	Check the connection between the Main Controller PCB and Open I/F PCB	<ul style="list-style-type: none"> Main Controller PCB Open I/F PCB 	<ol style="list-style-type: none"> Check the connection of the Open I/F PCB Replace the Open I/F PCB Replace the Main Controller PCB. Remarks: [NO] is displayed when the Open I/F PCB is not installed.	-
SN-20 FRAM	Check the Memory PCB lead	<ul style="list-style-type: none"> Memory PCB 	<ol style="list-style-type: none"> Check the Memory PCB installation Replace the Memory PCB 	E355
SN-23 HDD	Check the HDD lead (see the display example shown below)	<ul style="list-style-type: none"> HDD 	In case of a single HDD configuration <ol style="list-style-type: none"> Check the HDD connection (If it is displayed in a mirroring configuration, it indicates that the HDD 1 is faulty.) Replace the HDD Cable Replace the HDD 	E602
			In case of an HDD mirroring configuration <ol style="list-style-type: none"> Check the connection of the HDD indicated in the diagnosis result Replace the cable of the HDD indicated in the diagnosis result Replace the HDD indicated in the diagnosis result 	-
SN-25 FAN1	Check the rotation of the Controller Fan	<ul style="list-style-type: none"> Main Controller PCB 	Check the connection of the Controller Fan	E880
SN-100 HDD HEALTH CHECK	Check the S.M.A.R.T. acquisition and lead performance (see the example displayed in the figure below)	<ul style="list-style-type: none"> HDD 	<ul style="list-style-type: none"> If the S.M.A.R.T. Check displays a numeric value apart from [0], a backup of customer data is recommended. If the CheckResult is judged as CAUTION, a backup of customer data is recommended. If the Performance is displayed as [20 MB/s] or less, replacement of the HDD is recommended. If Exec SN-100 HDD HEALTH CHECK is judged as NG, replace the HDD. 	-

SN-23 HDD

```

98. 3 [MB/s]
CheckResult => [NORMAL]
Exec SN-100 HDD HEALTH CHECK => [OK]

=====
Exec SCENARIO-1 Processing BoxMode => [OK]
=====
>> The result of Box checker is displayed below
[Warning]-SN-23 HDD [HDD2 Failure]
----- Please hit Reset Key to start shutdown. -----
    
```

[Rebuilding] = During rebuilding of mirrored HDD

[HDD1 Failure] = Failure of the HDD1

[HDD2 Failure] = Failure of the HDD2

SN-100 HDD HEALTH CHECK

```

SN-23 FAN check start...
Exec SN-23 FAN => [OK]

SN-100 HDD HEALTH CHECK check start...

S.M.A.R.T Check -----
05 : Reallocated Sectors Count :[00000000000000]
c5 : Current Pending Sector Count :[00000000000000]
c6 : Uncorrectable Sector Count :[00000000000000]

Read Performance Check -----
136.8 [MB/s]

CheckResult => [NORMAL]
Exec SN-100 HDD HEALTH CHECK => [OK]

=====
Exec SCENARIO-1 Processing BoxMode => [OK]
=====
>> The result of Box checker is displayed below
[NG] : SN-18 PCI Configuration PCI-Bridge
[NG] : SN-18 GOR(0)-DDR2 SDRAM
----- Please hit Reset Key to start shutdown. -----
    
```

```

S.M.A.R.T Check -----
05: Reallocated Sectors Count:[00000000000000]
C5: Current Pending Sector Count:[00000000000000]
C6: Uncorrectable Sector Count:[00000000000000]
    
```

Refer to <S.M.A.R.T Check>. See below.

```

Read Performance Check -----
[90.8MB/s]
    
```

If "Performance" is [20 MB/s] or less, recommend to replace the HDD.

```

CheckResult => [NORMAL]
    
```

If the result is CAUTION, recommend the backup of user data.

```

Exec SN-100 HDD HEALTH CHECK => [OK]
    
```

If the result is NG, replace the HDD.

```

=====
Exec SCENARIO-1 Preprocessing BoxMode => [OK]
    
```

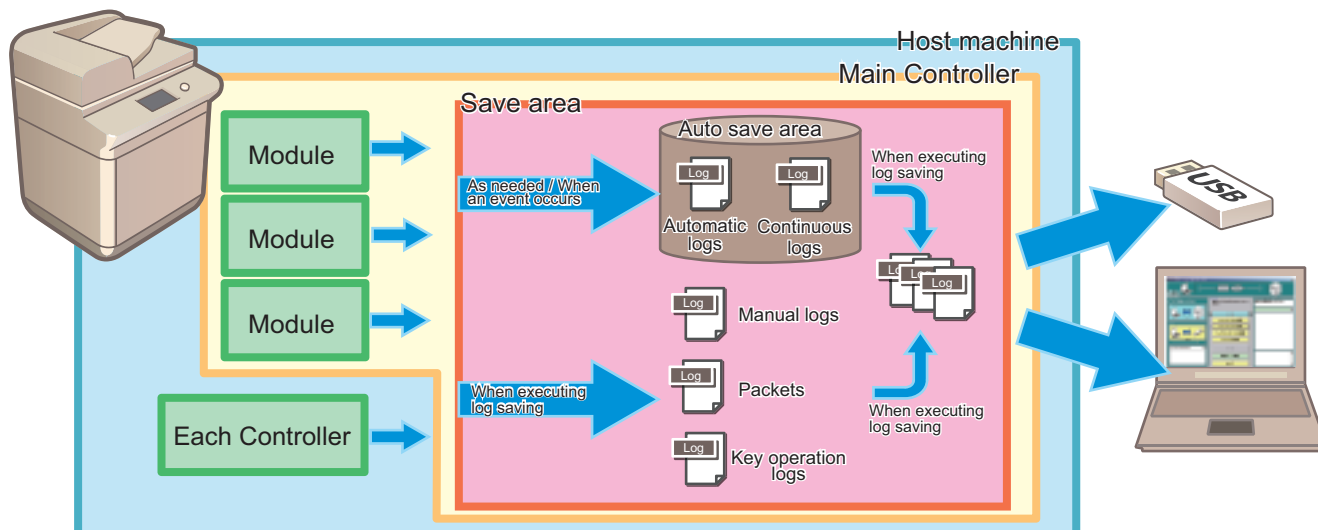
Limitations

- If there is a problem with the test name (SN-1, 2, 9, 13, 14), this diagnosis tool itself will not startup.
- When no PCBs are installed on the Main Controller PCB, the following judgment results are displayed.
Standard PCB: [NG]
Optional PCB: [OK]
However, [NO] is displayed in detailed error information for optional PCBs.

Debug Log

Function Overview

As for debug log, following logs are available: continuous log that saves the operation log, automatic log that is saved when an event occurs, manual log which is collected and saved each time at log saving, packet log, and key operation log.



NOTE:

Debug logs are used for analysis of program operations of the machine and identification of the problem by the developer.

This machine has a function for compiling operation history of each software module as debug logs and outputting them as unified logs for analyzing problems.

Since the frequency of outputting debug logs and the type of logs can be changed by the settings, the settings need to be changed according to the trouble that occurs and the situation.

Types of Debug Logs

Types of Debug Logs	Description
Sublogs	<p>Manual logs Logs collected in each module and controller are archived and can be collected when log saving is executed. Logs of the Main Controller, RCON, and DCON are saved together with automatic logs as up to 10 logs in total.</p> <p>Automatic logs Logs that are automatically saved to the machine when an event (exceptional behavior, error code, or reboot) occurs. Logs of the Main Controller, RCON, and DCON are saved together with manual logs as up to 10 logs in total.</p> <p>Continuous logs Logs that are continuously saved while the machine is running. Up to 100 logs of only the Main Controller can be stored.</p>
Key operation logs	History of key operations. Log collection starts by enabling the setting and starting the function. Logs that are archived and can be collected when log saving is executed.
Network packet logs	Logs of network packet data sent from or received by the host machine. Log collection starts by enabling the setting and starting the function. Logs that are archived and can be collected when log saving is executed.

Storage location and types of Sublogs

The locations where Sublogs are stored and the types of logs are shown below. Logs may be stored in controllers and parts other than those shown below.

Type	Automatic logs	Manual logs	Continuous logs
Main Controller	Yes (more detailed than continuous logs)	Yes (more detailed than continuous logs)	Yes
DCON	Yes	Yes	No
RCON	Yes	Yes	No

Cases Where Debug Logs Need to Be Collected

- When the result of identification of the cause shows that the trouble was caused by host machine (firmware, hardware-related controller)
- When the failure occurs only at the customer's site and cannot be reproduced by the department in charge of quality management or Canon Inc.

■ Sublogs

Sublog is the general term for the unified logs for analyzing problem in which operation histories of software modules are compiled as debug logs.

When a problem relating to the host machine occurs in the field and it is difficult to identify the cause of it at the user site, collecting Sublogs and sending them to Design Dept./R&D can improve the efficiency of analyzing the problem and reduce the time it takes to deal with the problem.

CAUTION:

- Sublogs are basically stored in volatile memory. Therefore, almost all information will be erased by turning OFF and ON the power before saving the log data. When obtaining the log data, make sure to implement the operation to save the log data (manually saving log) before turning OFF and ON the power.
- In order to prevent failure of collecting necessary information because the log is overwritten with the succeeding process, be sure to collect the Sublog while the symptom has occurred or immediately after the occurrence.
- Once the Sublog files are collected, they are deleted from the machine. In the case of collecting Sublogs consecutively, the number of continuous log files may be fewer than usual.

■ Key operation logs

This function collects the history of key operations in order to distinguish between a failure of the Main machine and an operation error of the user in the case of trouble of erroneous fax transmission.

If it cannot be denied the possibility that the user operation caused the error, collect the key operation logs.

The key operation log are stored/recovered in a form included in the Sublog files.

The following confidential information in the stored key operation log is masked.

- Personal identification number, PIN code, password, etc., to be entered
- Information that is hidden by turned letters on the UI screen

CAUTION:

To obtain permission from a user in advance for recording key operations for failure analysis.

■ Network packet logs

This function collects the transmitted and received network packet data as a debug log in the storage (capture).

When it is expected that the trouble was caused by network, collect network packet logs.

NOTE:

To use this function, you need to register a license, so you need to ask the Support Dept. of the sales company to issue a license.

CAUTION:

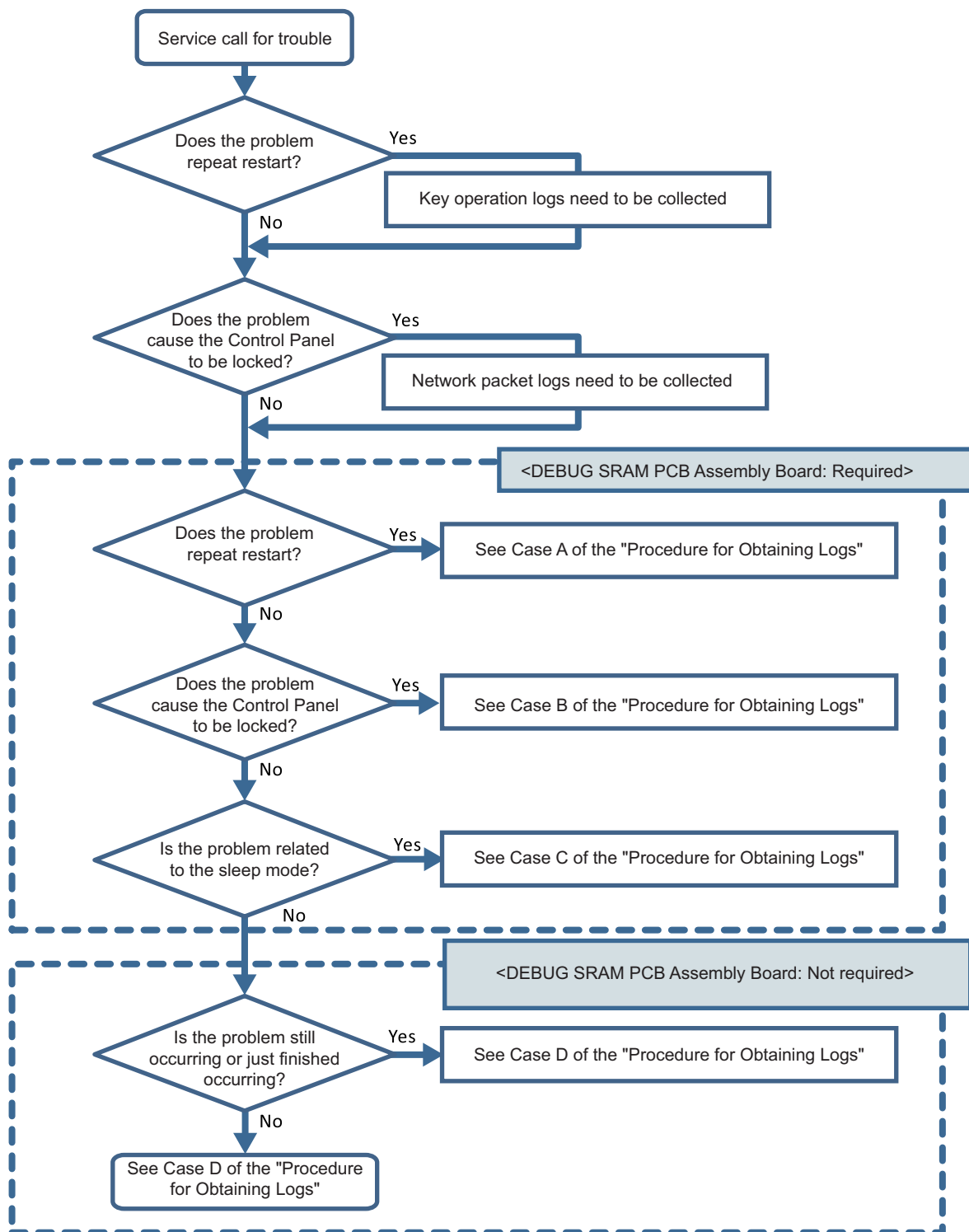
When obtaining the network packet log, explain to the user and obtain permission before proceeding.

CAUTION:

Under heavy network load environment, packets can be dropped.

■ Flow of Determining the Procedure for Collecting Logs

Check the following flow to determine the procedure for collecting logs according to the type of problem.



When the user's operation such as wrong fax transmission may be the cause of the problem, enable [Store Key Operation Log].

Procedure for Collecting Logs

Log Collection Procedure List

Problem Case	Details of Problem	DEBUG SRAM PCB ASS'Y Board	Procedure for Obtaining Logs
Case A	Problem that repeats re-start	Necessary	<ol style="list-style-type: none"> 1. Refer to "Preparation" on page 518 and make the preparations such as installing the DEBUG SRAM PCB ASS'Y Board or change the settings. 2. Execute log saving by referring to "Saving of Manual Logs, Network Packet Logs and Key Operation Logs" on page 521 immediately after restart. 3. Save and collect reports by referring to "Saving and Collecting Report Files" on page 522. 4. Collect debug logs by referring to "Collection of Log" on page 523.
Case B	Problem causing the Control Panel to be locked	Necessary	<ol style="list-style-type: none"> 1. Refer to "Preparation" on page 518 and make the preparations such as installing the DEBUG SRAM PCB ASS'Y Board or change the settings. 2. Turn OFF and then ON the power immediately after the Control Panel is locked. 3. Execute log saving by referring to "Saving of Manual Logs, Network Packet Logs and Key Operation Logs" on page 521 after startup. 4. Save and collect reports by referring to "Saving and Collecting Report Files" on page 522. 5. Collect debug logs by referring to "Collection of Log" on page 523.
Case C	Problem related to the sleep mode	Necessary	<ol style="list-style-type: none"> 1. Refer to "Preparation" on page 518 and make the preparations such as installing the DEBUG SRAM PCB ASS'Y Board or change the settings. 2. After the problem occurs, turn OFF and then ON the power if necessary, and execute log saving by referring to "Saving of Manual Logs, Network Packet Logs and Key Operation Logs" on page 521. 3. Save and collect reports by referring to "Saving and Collecting Report Files" on page 522. 4. Collect debug logs by referring to "Collection of Log" on page 523.
Case D	Problem when executing a job (Example: Printing is not performed, etc.)	Not necessary	<ol style="list-style-type: none"> 1. Execute log saving while the problem is occurring by referring to "Saving of Manual Logs, Network Packet Logs and Key Operation Logs" on page 521. 2. Execute log saving by referring to "Saving of Manual Logs, Network Packet Logs and Key Operation Logs" on page 521. 3. Collect debug logs by referring to "Collection of Log" on page 523.
	When an E code error has occurred	Not necessary	Execute log saving by referring to "Saving of Manual Logs, Network Packet Logs and Key Operation Logs" on page 521 . However, if the background of the Control Panel is blank and an error code is displayed in text, logs cannot be obtained.
Case E	Problems other than above	Not necessary	Execute log saving by referring to "Saving of Manual Logs, Network Packet Logs and Key Operation Logs" on page 521 . Check with the user on the date and time when the problem occurred and the procedure.

Saving and Collecting Debug Logs

■ Tools Required

The following tools are necessary to save/collect debug logs of the machine.

Exporting to a USB Device

- USB device

When exporting debug logs to a USB device, use a USB device in which the system software for the machine is registered using SST.

Since the size and number of log files to collect varies according to the device status and the logs that have been saved, the size of the collected files may be several hundred MB. Therefore, it is recommended to use a USB device with 1 GB or more of free space.

The USB device must be formatted with the FAT file system.

CAUTION:

Be sure to check that the USB device has 1 GB or more of free space before collecting a log. If capacity of the USB device is insufficient, logs that failed to be saved will be deleted so that analysis of the symptom cannot be performed.

Exporting to a PC

- PC with SST installed
- Network connection cable

When exporting debug logs to a PC, a PC with SST installed and a network connection cable are required.

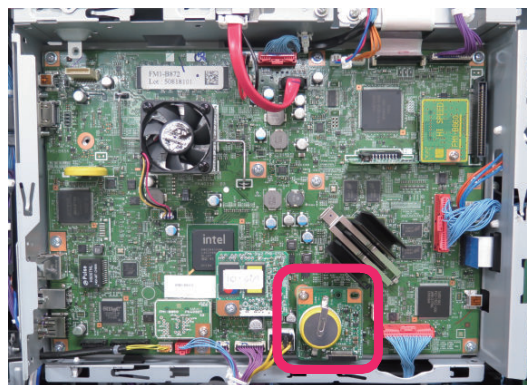
Common (When Exporting to a USB Device, or When Exporting to a PC)

- DEBUG SRAM PCB Assembly Board

In the following conditions, debug logs cannot be saved, therefore the DEBUG SRAM PCB Assembly Board is required.

- When restart is repeated
- When all the operations of the device are frozen and manual logs cannot be collected.
- When the machine would not recover from sleep mode

Refer to the following regarding installation on to the Controller PCB.



Reference example of installation

■ Work Flow

The flow of saving/collecting Sublogs is shown below.

1. Preparation

Refer to “[Flow of Determining the Procedure for Collecting Logs](#)” on page 515, and make the preparation as needed according to a situation where an event has occurred.

2. Reproduction of the symptom

Reproduce the symptom.

3. Saving of manual logs

Save manual logs that require manual operation.

4. Output of reports

Output reports necessary for escalation.

5. Collecting log files

Start the machine in download mode, and save (collect) the log files to a USB device or a PC.

CAUTION:

In the case of analysis using Sublog, the following information needs to be obtained together with the Sublog.

- Symptom that has occurred (from service technician's viewpoint as far as possible)
- Date and time of the event (from an hour before the event to an hour after the event)
- Reports (P-Print, HIST-PRT, job logs, communication management report, etc.)
- Printed data and original at the time of reproduction (depends on the trouble that has occurred)

Besides Sublog, the above-mentioned information is required due to the following reasons:

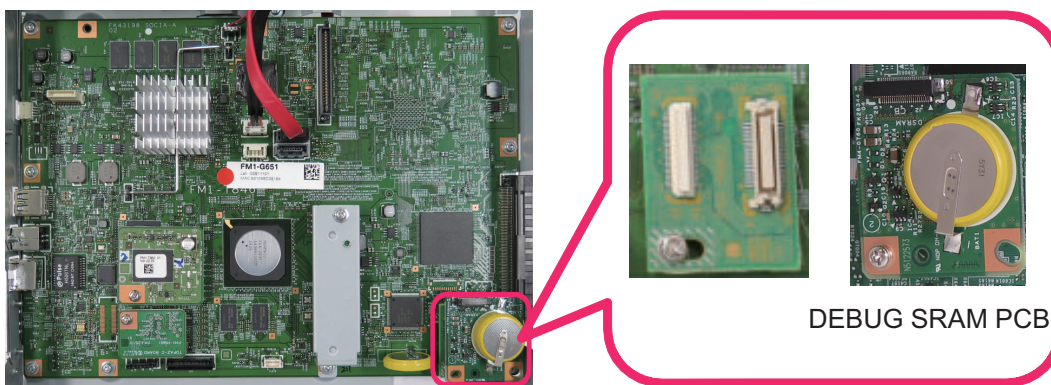
- Failures such as a process being stopped due to an error or an unintended behavior are easy to find, but failures such as "the behavior is slow" are difficult to analyze based on operation logs only.
- Since the number and size of the files are huge, the information helps to find the operation log where the problem occurred.
- When R&D reproduces the failure, it is necessary to use information such as the procedure used by the customer, frequency of use, and job data at the time of occurrence of the failure.

6. Remove the board installed in step 1 and return the settings back to the original values.

■ Preparation

Follow the procedure shown below to make preparations for collecting debug logs.

1. Refer to **"Flow of Determining the Procedure for Collecting Logs"** on page 515 and when it is judged that **DEBUG SRAM PCB ASS'Y Board** is required, install the board.



Reference example of installation

2. Refer to **"Flow of Determining the Procedure for Collecting Logs"** on page 515 and when it is judged that collection of the key operation logs is required, enable **[Store Key Operation Log]** by following the procedure shown below.
 1. Select [Settings/Registration] > [Management Settings] > [Device Management] > [Store Key Operation Log].
 2. Select [ON] and press [OK] to start saving key operation logs.

CAUTION:

When collecting the key operation logs, be sure to obtain user's permission in advance.

3. Refer to **“Flow of Determining the Procedure for Collecting Logs”** on page 515 and when it is judged that collection of the network packet logs is required, enable the network packet log collection function by following the procedure shown below and start the function.

1. Enter a license in the following menu to enable network packet capture.
[Settings/Registration] > [Management Settings] > [License/Other] > [Register License]

NOTE:

Use the license issued by the Support Dept. of the sales company to activate it.

2. Enable the setting (ON) in the following menu.
[Settings/Registration] > [Preferences] > [Network] > [Store Network Packet Log]
3. Set "1" in the following service mode (Lv.2).
Service mode > COPIER > TEST > NET-CAP > CAPOFFON
4. Refer to **“Initial setting of the network packet log collection function”** on page 520, and configure the required option settings.
5. Set "0" or "1" in the following service mode (Lv.2) to start capture of network packets.
Service mode > COPIER > TEST > NET-CAP > STT-STP
 - 0: Not automatically collect at startup (factory default setting)
 - 1: Automatically collects at startup
6. Execute the following service mode (Lv.2) to check the status of the capture.
Service mode > COPIER > TEST > NET-CAP > CAPSTATE
The following types of status are displayed.
 - RUNNING: Packets are being captured.
 - STOP: Packet capturing is stopped.
 - HDDFULL: The maximum amount of 1 GB of packets has been captured.

4. When an instruction to change the automatic log settings is given by the Support Dept. of the sales company, change the settings by referring to **“Automatic Log Settings”** on page 519.

• Automatic Log Settings

Automatic log is collected triggered by "occurrence of an unexpected error", "occurrence of an error code" or "restart of the machine".

If you want to change the triggers, change the setting in the following service mode.

COPIER > Function > DBG-LOG > LOG-TRIG

However, there is no need to change the setting unless otherwise instructed by the Support Dept. of the sales company. The events that trigger collection of automatic logs and their setting values are shown below.

List of conditions for automatic saving of logs and setting values

Setting value	Event condition for saving automatic log
101 (Default setting)	When an unexpected error occurs, an error code occurs, or the machine is restarted
111	Only when an unexpected error occurs
121	Only when an error code occurs
131	Only when the machine is restarted
201	When an unexpected error occurs, an error code occurs, the machine is restarted, or an alarm occurs
211	When an unexpected error occurs or an alarm occurs
221	When an error code occurs or an alarm occurs
231	When the machine is restarted or an alarm occurs
291	Only when an alarm occurs
301	When an unexpected error occurs, an error code occurs, the machine is restarted, or a jam occurs
311	When an unexpected error occurs or a jam occurs
321	When an error code occurs or a jam occurs
331	When the machine is restarted or a jam occurs
391	Only when a jam occurs

The procedure for changing the log auto save conditions with LOG-TRIG is indicated below.

1. Press [LOG-TRIG], enter the value for the conditions you want to set, and press [OK].
"ACTIVE!" flashes in the display column, and the log settings in the machine are changed.
2. When [OK!] is displayed in the display column, the work is complete.
If the processing fails, "NG" is displayed. It is not necessary to restart the device.

NOTE:

- A value between 0 and 99999 can be set, but make sure to set the value instructed by the Support Dept. of your sales company. Operations are not guaranteed when value other than the above is set.
- The displayed setting is not changed simply by changing the setting or pressing [DEFAULT]. It is necessary to exit the DBG-LOG screen once by pressing the [Reset] key, etc. and then display it again, after performing these operations.

Executing Auto Saving (Reference Example)

An example of executing auto saving using LOG-TRIG is shown below so that you can experience the log collection work. It is an example of log collection in the event of jam in the Delivery Assembly during copy operation.

1. Connect a USB device to the machine while the machine is ready for operation.
2. Set "301" in the following service mode (Lv.2).
 - COPIER > Function > DBG-LOG > LOG-TRIG
3. Make a copy. Open the Delivery Feed Assembly before paper is delivered from the Delivery Assembly to generate a jam.
4. When a jam occurs, confirm "Storing System Information..." is displayed at the bottom of the Control Panel.

• Initial setting of the network packet log collection function

When collecting the network packet logs, configure the initial settings as needed.

Setting the overwrite function

1. To enable this function, set "1" in the following service mode (Lv.2).

Service mode > COPIER > TEST > NET-CAP > OVERWRIT

NOTE:

When this setting is enabled, old logs will be overwritten. If the symptom cannot be reproduced, disable this setting (setting value: 0) and secure logs (save them using SST or USB).
After securing the logs, enable the setting (setting value: 1) again.

Behavior when HDD reaches the limit

When this setting is enabled (setting value: 1), the following behaviors will occur when the HDD reaches the limit.

- When overwrite setting is ON
 - The oldest packet file is deleted. This "oldest file" is judged not by the date and time allocated to the file but by the last update time of the file.
 - If the HDD reaches the maximum size while retrieving packets, the oldest file will be deleted, and CAPSTATE of the capture, which continues the retrieval process for the file which is being saved, remains "RUNNING".
- When overwrite setting is OFF
 - The capture is stopped.
 - The CAPSTATE of the capture will be "HDDFULL". However, STT-STP will remain as Start (1) status. By changing STT-STP (0) to STTSTP (1), the capture resumes.
 - When the capture resumes, the capture starts if HDDFULL has been solved.
 - The CAPSTATE of the capture will be "RUNNING".
 - If HDDFULL has not been solved, an error is generated as the result of resuming the capture.
 - The CAPSTATE of the capture remains "HDDFULL".
 - If the capture is stopped while the CAPSTATE is "HDDFULL", the CAPSTATE of the capture remains "STOP".

Setting the encryption function

1. To enable this function, set "2" in the following service mode (Lv.2).

COPIER > TEST > NET-CAP > ENCDATA

- 0: Encrypted when data is extracted (factory default setting).
- 1: Not encrypted when data is extracted.
- 2: When data is extracted, a ciphertext file and a plaintext file are extracted.

The extension of extracted packet data will be "XXX.can" when encryption settings are enabled.

The extension of extracted packet data will be "XXX.cap" when encryption settings are disabled.

This setting only applies when extracting data by the USB flash drive.

NOTE:

When SST is used to collect data, both plaintext data and ciphertext data are extracted, and this setting is ignored.

Setting the payload drop function

- To enable this setting, set "1" in the following service mode (Lv.2).

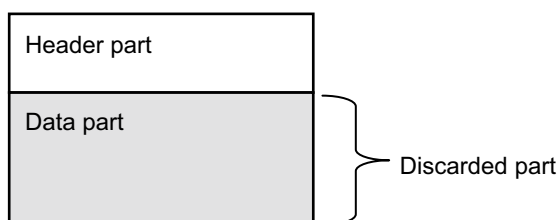
COPIER > TEST > NET-CAP > PAYLOAD

- 0: Not drop the payload (factory default settings)
- 1: Drop the payload

The obtained packet data includes a header part and data part. The header part includes data such as the TCP header and IP header. The data part includes the actual data.

Enabling this function discards the actual payload data and extracts only the data from the header part, which has the following effects.

- Can be used when customer data is not allowed to be extracted
- Can be used in an environment where traffic is highly overloaded



Packet data structure image

Setting the filter function

- To enable this function, set "1" in the following service mode (Lv.2).

COPIER > TEST > NET-CAP > SIMPFILT

- 0: All data is collected without being filtered (factory default setting).
- 1: Data is filtered.

If this function is enabled, only packet data that includes the machine's MAC address in the packet header is captured.

Setting the startup collection function

- To enable this function, set "1" in the following service mode (Lv.2).

COPIER > TEST > NET-CAP > PONSTART

- 0: Not automatically collect at startup (factory default setting)
- 1: Data is filtered.

If this function is enabled, only packet data that includes the machine's MAC address in the packet header is captured.

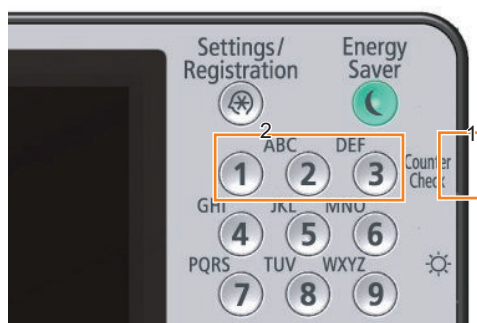
■ Saving of Manual Logs, Network Packet Logs and Key Operation Logs

Follow the steps shown below to save debug logs (manual logs, network packet logs, and key operation logs) to the save area of the host machine that require manual operation.

- After the symptom has reproduced, hold down the Counter key on the Control Panel for approx. 10 seconds, and then press 1, 2, and 3 in that order on the Numeric Keypad.

CAUTION:

If power is turned OFF during the period from when the symptom occurs to when the manual log is saved (hold down the Counter key and press numeric keys 1, 2, and 3), necessary log data will be deleted so that analysis cannot be performed.



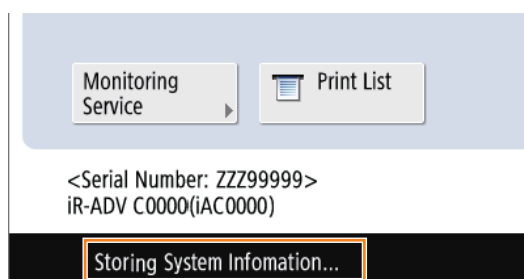
2. Check that "Storing System Information..." is displayed on the Control Panel.

- For platform version 3.7 or later, following screen is displayed.



Save screen for platform version 3.7 or later

- For the platform version 3.6 or earlier, following message is displayed.



Message during saving logs for platform version 3.6 or earlier

CAUTION:

- While logs are being saved, other operations cannot be performed.
- If above screen or message does not appear, press the Reset button and then try again.

NOTE:

When network packet logs have been collected and necessary network packets have been captured, stop the capture from the following menu.

[Settings/Registration] > [Preferences] > [Network] > [Store Network Packet Log]

When this setting is disabled, all the service mode settings configured in step 3 are initialized.

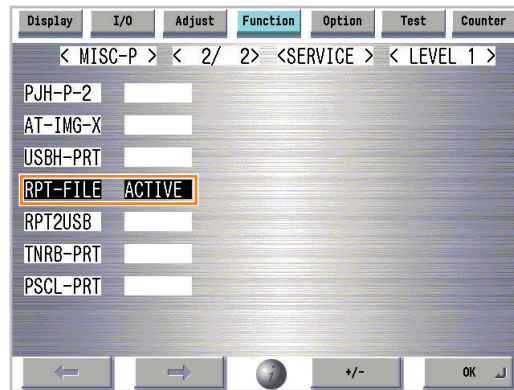
After completion of analysis of the network trouble, be sure to disable the network capture function. It is therefore necessary to disable and then transfer the license, but it is not necessary to transfer the LMS license after that.

■ Saving and Collecting Report Files

Follow the procedure shown below to save report files to the the Main Unit internal storage and collect them using a USB device.

1. Execute the following service mode to save report files.

COPIER > Function > MISC-P > RPT-FILE



2. Connect the USB and verify that Main machine recognizes the USB.

3. Execute the following service mode and retrieve the report file to USB.

COPIER > Function > MISC-P > RPT2USB



■ Collection of Log

Save the Sublogs stored in the host machine to a USB device or a PC with SST installed.

The procedure for storing Sublogs to a USB device differs from that for storing Sublogs to a PC

● Collecting into a USB Device

To save (collect) Sublogs to a USB device, perform the procedure shown below to collect the logs.

If SST is used to save (collect) Sublogs to a PC, this work is not necessary.

CAUTION:

If the log is stored multiple times to the USB flash drive on the host machine with the platform version 3.6 or earlier, make sure to move the stored log file to a different location each time.

Log files are stored in the root directory of USB flash drive. If multiple files are stored, the file, "LOGLIST.txt" is overwritten. Note that on the host machine with the platform version 3.7 later, specifications are changed and this file is not overwritten.

1. Connect the USB flash drive to the machine.

2. Execute the following service mode.

COPIER > Function > SYSTEM > DOWNLOAD



3. The host machine will enter download mode. Press [8] on the Numeric Keypad.

```

[[[[[[[[ Root Menu (USB <v25.12> ]]]]]]]] (v25.12)
-----
[ 1 ] : Select Version
[ 4 ] : Clear/Format
[ 5 ] : Backup/Restore
[ 8 ] : Download File
[ 9 ] : Version Information
[ Reset ] : Start shutdown sequence
  
```

4. [Download File Menu] will appear. Press a numeric key for the file to download.

```

[[[[[[[[ Download File Menu (USB <v25.12> ]]]]]]]] (v25.12)
-----
[ 1 ] : SUBLOG Download
[ 4 ] : ServicePrint Download
[ 5 ] : NetCap Download
[ C ] : Return to Menu
  
```

- Press [1] key to download Sublog.
- Press [5] to download network packet log.

5. The files to be downloaded and the number of files are displayed. Check the following items and press [0] on the Numeric Keypad.

- Whether the manual log that was saved at the time of reproduction of the symptom is displayed under Event Logs
- Whether the date and time at which the symptom was reproduced is within the period of Continuous Log
Example: When the symptom was reproduced at 9:40 on April 14, 2017 and a manual log was saved
Check that the manual log that was generated at 9:40 on April 14, 2017 is displayed under Event Logs.
Check whether 9:40 on April 14, 2017 is included in the logged period(from 8:03:33 on March 22, 2017 to 9:45:14 April 14, 2017) of the ContinuousLog.

```

[[[[[[[[ Sublog Download (EventLog + ContinuousLog) ]]]]]]]]
-----
Event Logs ( latest 10 files ) :
20170414_09-40-UPN00003-V2512_Debuglog@Cnt123
20170404_16-02-ZZZ00000-V0254_ServiceCall-E719-0001
20170328_08-22-ZZZ00000-V0254_exception

ContinuousLog :
Period : 20170322_0803-33 to 20170414_0945-14

Total : 102files
/ Execute ? /
-(OK) : 0 / (CANCEL) : Any other keys -
  
```

Automatic (event) log / manual log:
Check that the manual logs that have been saved when the symptom occurs.

Continuous log:
Check that the date and time at which the symptom occurred are included within the collection period of continuous logs.

6. When downloading the log files is complete, the following message will appear. Press any key.

--- Please press any keys ---

```
[68/102]20170405_0949-57-ZZZ00000-2512-clog.bin
[69/102]20170405_0908-19-ZZZ00000-2512-clog.bin
[70/102]20170404_1822-52-ZZZ00000-2512-clog.bin
[71/102]20170404_1702-57-ZZZ00000-2512-clog.bin

[97/102]20170322_1324-37-ZZZ00000-2512-clog.bin
[98/102]20170322_1204-56-ZZZ00000-2512-clog.bin
[99/102]20170322_1102-52-ZZZ00000-2512-clog.bin
[100/102]20170322_0954-48-ZZZ00000-2512-clog.bin
[101/102]20170322_0848-16-ZZZ00000-2512-clog.bin
[102/102]20170322_0803-33-ZZZ00000-2512-clog.bin
Sub log full Download OK.
---Please press any keys---
```

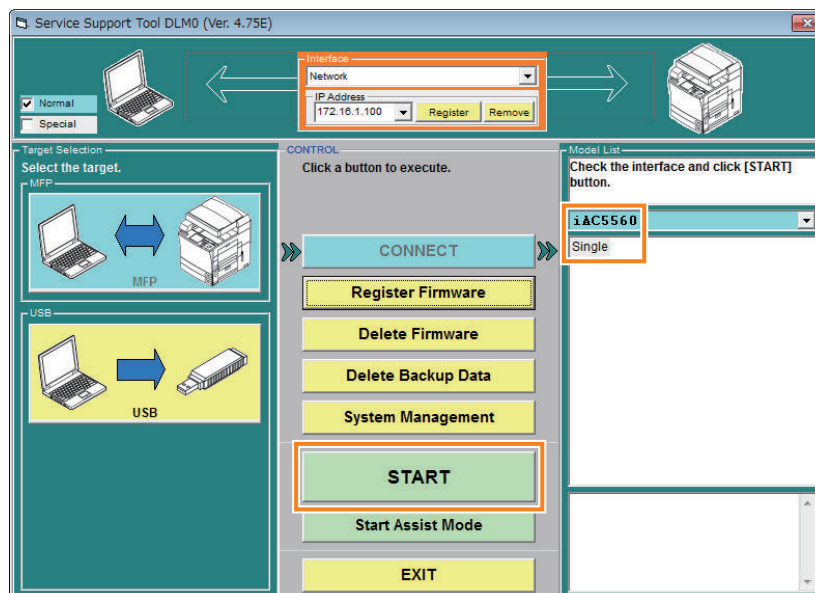
Do not turn OFF the power without.....

• **Saving to a PC with SST installed**

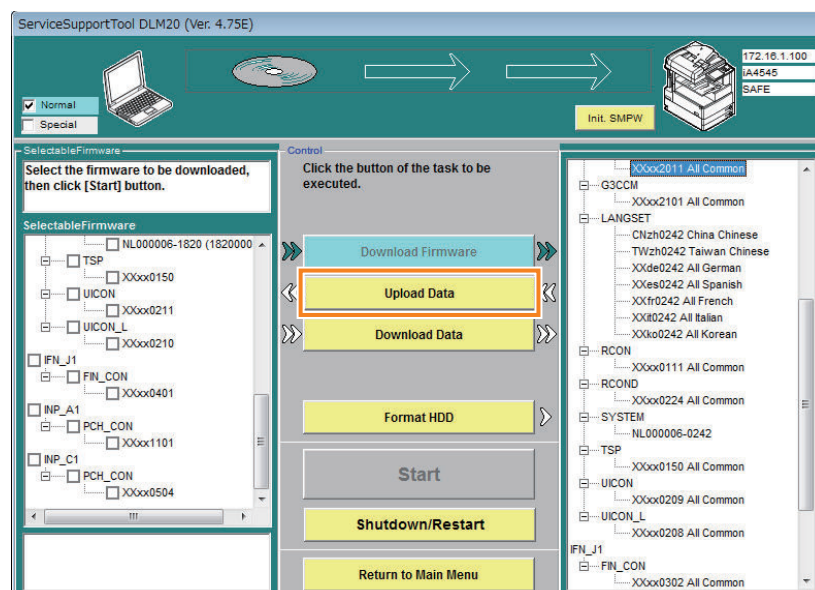
Follow the procedure shown below to save (collect) Sublogs to a PC using SST.

If a USB device is used to save (collect) Sublogs, this work is not necessary.

1. Connect a PC with SST installed to the network where the host machine is connected.
2. Start SST, and select the model name of the machine from Model List. Press the Start button.



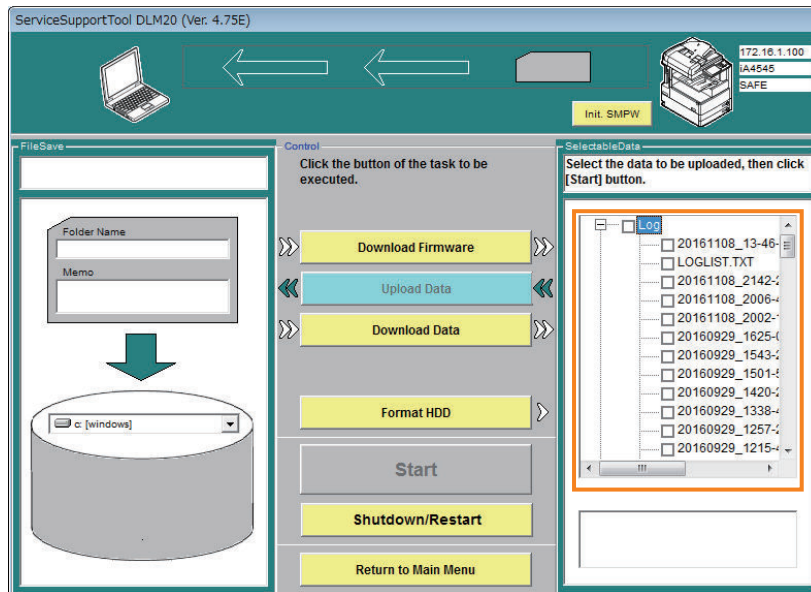
3. Click [Upload Data].



4. Check that continuous logs are stored in the device.

When connection with the device is completed, the screen shown below will appear. Select [Upload Data].

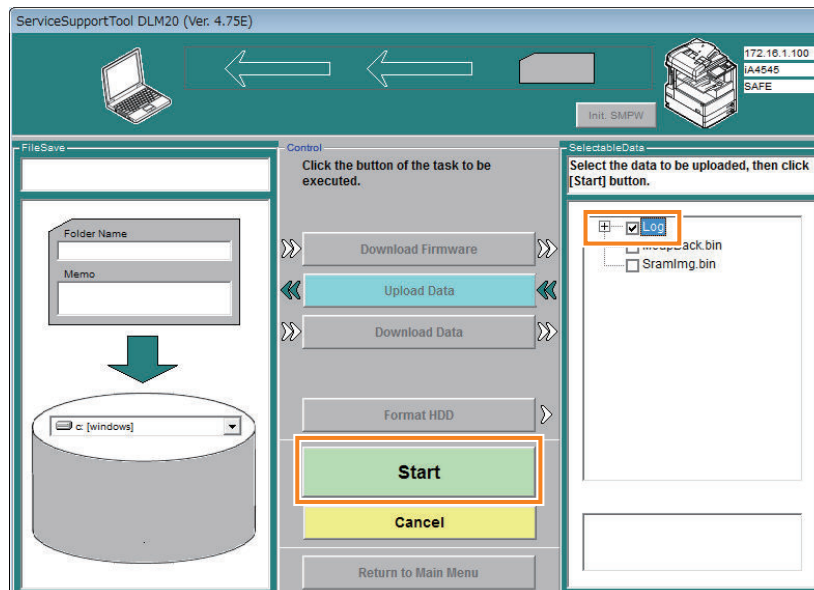
The set of data stored in the device is shown on the right. Click "+" at "Log" to expand the tree, and check that there are continuous logs (date_model number_clog.bin).



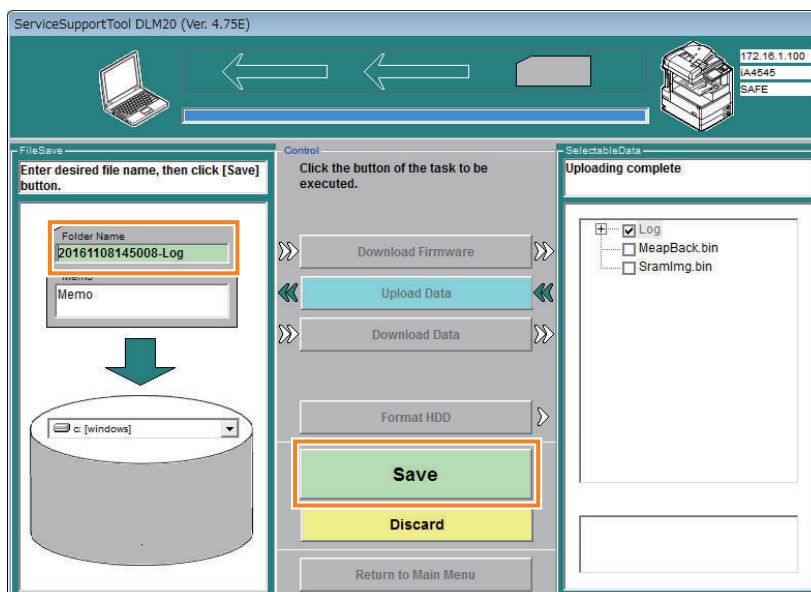
5. Select the data to upload, and click [Start].

Select the check box on the left of "Log", and click the "Start" button.

It is not necessary to select MeapBack.bin and SramImg.bin because they are not necessary for analysis.



6. Enter a file name (arbitrary), and click the SAVE button to save the file to the PC.



• Checking the Saved Files

NOTE:

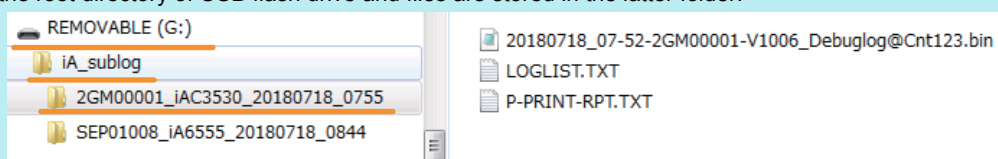
If log files are stored in the USB flash drive, the path to the storage destination is different by the platform version.

Platform version prior to 3.7

They are stored in the root directory of USB flash drive.

Platform version 3.7 or later

Folders of "iA_sublog" and "model name + serial number + date (year, month, day + hour, minute, second)" are automatically created in the root directory of USB flash drive and files are stored in the latter folder.



Sublog files

Check the saved log files whether the necessary log has been collected.

- Whether it is a log file of the target model (It contains the serial number of the target machine.)
- Whether the time and date the symptom occurred is included in the logged period. (Date and time in the log file name represent those of when the log collection is started. There are files with dates before the symptom occurs.)

Storage locations of log files

Storage locations of log files are shown below.

When using USB device: Root folder of the USB device

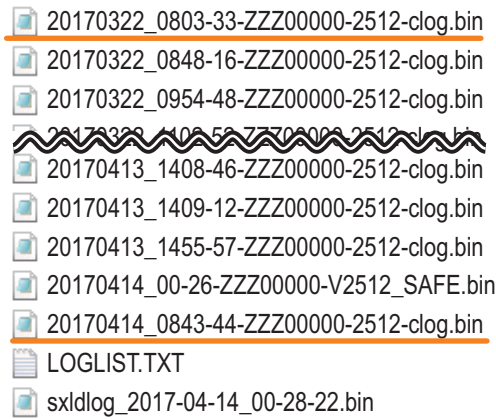
When using SST: PC's C:\ServData\

How to check the continuous log files

The continuous log files are stored in the log file storage location.

Check the names (date and time) of the files that end with "clog.bin" to see whether the date and time the symptom was reproduced is included.

In the case of the following figure, the oldest continuous log is 08:03:33 on March 22, 2017 and the latest file is 08:43:44 on April 14, 2017. The date and time the symptom was reproduced should be included within the period.



20161013_1733-36_ZZZ99999_1406_clog.bin

Data and time when a file was archived (year, month, day, hour, minute, second). Serial Number Firmware Version Identification indicating that it is a continuous log

File name of continuous log

How to check the manual log files and automatic (event) log files

The manual log files and automatic (event) log files are stored in the log file storage location. At the time of collection, these logs will be archived as a one binary file (the name of the file ends with "_SAFE.bin").

20161013_19-34-ZZZ99999-V1406_SAFE.bin

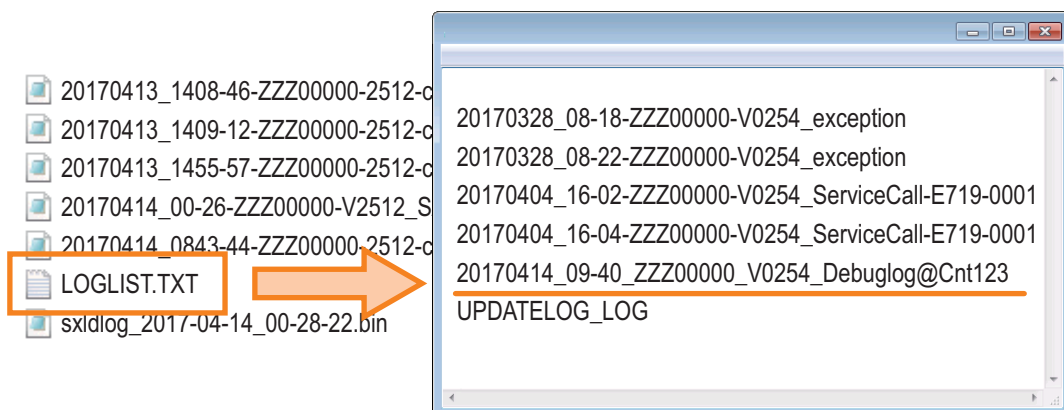
YYYYMMDD_HH-MM Serial Number Firmware Version

Which logs have been stored in this binary file is described in LOGLIST.TXT stored in the log file storage location. Open this file to check the manual logs and automatic (event) logs.

CAUTION:

If a manual log was saved when the symptom was reproduced, check that a log with the date and time immediately after the reproduction is included.

If there is no log file collected immediately after the symptom was reproduced, the file may have been overwritten and lost.



20161013_10-10_ZZZ99999_V 1308_Debuglog@Cnt123

Data and time when key operation was performed (year, month, day, hour, minute, second). Serial Number Firmware Version Identification indicating that a key operation was performed

File name of manual log

20161012_14-48_ZZZ99999_V1406_Fatal00-exception

Data and time when an even occurred (year, month, day, hour, minute, second) Serial Number Firmware Version Cause of occurrence

20161012_14-48_ZZZ99999_V1406_ServiceCall-E719-0031

Data and time when an even occurred (year, month, day, hour, minute, second) Serial Number Firmware Version Cause of occurrence

File name of automatic log

How to check the network packet log files

The network packet log file is stored in the "NC + date" folder created in the log file storage location.

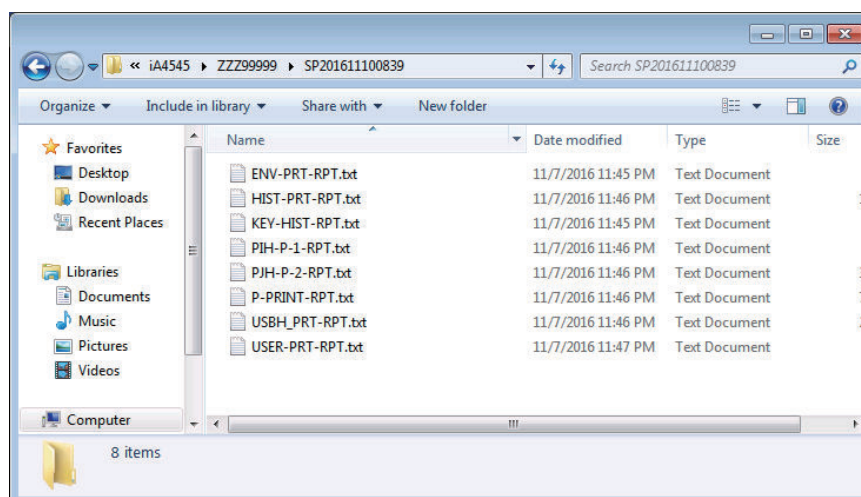
Open the folder and check that two types of files have been saved: a plaintext file which file name starts with "NC" and ends with ".cap", and a ciphertext file which file name starts with "NC" and ends with ".can".

Name	Date modified	Type
NC0110041155.can	1/22/2015 11:34 AM	CAN File
NC0110041155.cap	1/22/2015 11:34 AM	CAP File
NC0110044539.can	1/22/2015 11:34 AM	CAN File
NC0110044539.cap	1/22/2015 11:34 AM	CAP File
NC0110051028.can	1/22/2015 11:34 AM	CAN File
NC0110051028.cap	1/22/2015 11:34 AM	CAP File
NC0110051243.can	1/22/2015 11:34 AM	CAN File
NC0110051243.cap	1/22/2015 11:34 AM	CAP File
NC0110053134.can	1/22/2015 11:34 AM	CAN File
NC0110053134.cap	1/22/2015 11:34 AM	CAP File
NC1222190910.can	1/22/2015 11:34 AM	CAN File
NC1222190910.cap	1/22/2015 11:34 AM	CAP File
NC1226153347.can	1/22/2015 11:34 AM	CAN File
NC1226153347.cap	1/22/2015 11:34 AM	CAP File

Report files

Report files saved to the USB device are stored in the folder under the name shown below where the firmware is stored.

- [Serial No.] > SP [Date (year, month, day, hour, minute (12 digits))] L



Service Mode Relating to Debug Logs

Although the procedure for collecting debug logs of this equipment is as indicated above, there are other service modes related to debug logs.

Use the following service modes (Lv.2) as needed.

- COPIER > Function > DBG-LOG > HIT-STS
- COPIER > Function > DBG-LOG > DEFAULT
- COPIER > Function > DBG-LOG > LOG-DEL

NOTE:

If log collection is continued or setting change is repeated when an abnormality is found in operation of the function related to debug logs, temporary files or log files may be remained in the machine. In that case, execute "DEFAULT" in service mode to clear the settings related to debug logs and repeat the operation again.

Confirming the Existence of Debug Logs (HIT-STS)

This service mode confirms whether debug logs exist in the auto save area.

"OK!" is displayed if logs exist in the auto save area.

NOTE:

"OK!" is displayed even after pressing the Counter key + numeric keys 1, 2, and 3.

Initializing the Debug Log Settings (DEFAULT)

This service mode changes all the settings related to debug logs back to the default (settings at the time of shipment).

- Be sure to perform when returning the device to the customer after completion of trouble investigation. (Operations required)
- Execute this service mode when resetting the settings related to debug logs during investigation of log collection and perform the operation again.

However, note that the log files automatically saved to the debug log save area in the controller are kept within the range not exceeding the upper limit.

If you want to delete the saved logs (want to use HIT-STS), use "LOG-DEL" indicated later.

Deleting the Automatically Saved Log Files (LOG-DEL)

This service mode deletes the automatically saved and stored log files. The settings of log operation such as trigger for saving log are not cleared.

Although it is not used normally (the upper limit of the number of saved logs is automatically controlled by firmware), it is necessary to delete logs with LOG-DEL once when judging whether logs are collected using HIT-STS after changing the trigger for saving log.

(It is because OK is displayed in HIT-STS as long as the saved logs exist.)



Error/Jam/Alarm

Overview.....	532
Error Code.....	536
Error Code (FAX).....	720
Alarm Code.....	723
Jam Code.....	865

Overview

This section describes the error codes that are displayed when failure has occurred. The codes are divided into three categories.

Code types	Description	Reference
Error Codes	This code is displayed when a failure caused by the host machine has occurred.	"Error Code" on page 536
Jam code	This code is displayed when a jam occurs inside the machine.	"Jam Code" on page 865
Alarm code	This code is displayed when some functions are disabled.	"Alarm Code" on page 723

Display of error codes

The 7-digit "E000XXX" error code is displayed on the display of the Control Panel. However, since "000" of the 2nd to 4th digits is not used, the 5th to 7th digits are described as "EXXX" in the Service Manual. (Example: E012 -> E000012)

Error code notation

An error code is shown in 7-digit [E000XXX] on the display on the operation panel. However, [000] in 2 to 4 digit is not used. Thus, an error code is described as [EXXX] using 5 to 7 digit in the service manual. (e.g.: E012 = E000012)

Location Code

The error codes, jam codes, and alarm codes of this machine contain information on the location.

The location is displayed in 2 digits and has the meaning shown below: (In the jam display screen, the "L" row corresponds to the location code.)

Device	JAM	ERR	ALARM
Host machine	00	Main Controller: 00 Printer engine: 05	Other than those below
Reader/ADF	01	04	02,50
2-cassette Pedestal-AM1	00	05	04
High Capacity Cassette Feeding Unit-A1	00	05	04
Paper Deck Unit-F1	00	05	04
Buffer Path Unit-L1	02	02	-
Booklet Finisher/External Finisher-Y1	02	02	61
Inner Finisher-H1	02	02	61

Pickup Position Code

When a jam occurs, the pickup location is indicated with the following pickup position code. (On the jam display screen, the pickup position code is shown in the "P" column.)

Display	I/O	Adjust	Function	Option	Test	Counter		
< JAM > < 1/ 7 > < READY > < LEVEL 1 >								
No.	DATE	TIME1	TIME2	L	CODE	P	CNTR	SIZE
01	0401	1618	1620	02	1400	00	473634	-----
02	0401	1422	1423	00	0205	F0	503838	A4
03	0325	1056	1057	00	0205	F0	251303	A4
04	0324	1057	1059	00	0D93	F0	502120	-----
05	0316	1721	1721	00	0205	F0	500558	A4
06	0313	1557	1558	00	0113	01	469400	A4
07	0311	0939	0941	00	0205	01	499686	A4
08	0311	0930	0930	00	0113	02	499603	A4

Display example of pickup position code

Pickup position code	Pickup position
00	At Finisher jam/At error avoidance jam/At ADF jam without pickup operation (at SEND, Inbox, etc.)
01	Cassette 1
02	Cassette 2
03	Cassette 3
04	Cassette 4
05	Multi-purpose Tray Pickup Assembly
F0	2-sided

Pickup size

When a jam occurs, a paper size is displayed. (The row displaying "SIZE" on the jam screen refers to the paper size.)

Display	I/O	Adjust	Function	Option	Test	Counter		
< JAM > < 1/ 7 > < READY > < LFWFI 1 >								
No.	DATE	TIME1	TIME2	L	CODE	P	CNTR	SIZE
01	0401	1618	1620	02	1400	00	473634	-----
02	0401	1422	1423	00	0205	F0	503838	A4
03	0325	1056	1057	00	0205	F0	251303	A4
04	0324	1057	1059	00	0D93	F0	502120	-----
05	0316	1721	1721	00	0205	F0	500558	A4
06	0313	1557	1558	00	0113	01	469400	A4
07	0311	0939	0941	00	0205	01	499686	A4
08	0311	0930	0930	00	0113	02	499603	A4

Due to the limitation of displayable number of characters, some paper size names are omitted. The following is the list of displayed row of texts and corresponding paper sizes.

* The following is based on the display specification and not all paper sizes can actually be used.

Display	Paper Size	Display	Paper Size
A0	A0	LDR	LEDGER
A1	A1	LDRFB	LEDGERFULLBLEED
A2	A2	LGL	LEGAL
A3	A3	LTR	LETTER
A3FB	A3FULLBLEED	EXE	EXECUTIVE
A4	A4	STMT	STATEMENT
A5	A5	10x8	10x8
A6	A6	12x18	12x18
A7	A7	13x19	13x19
I-B0	ISOB0	15x11	15x11
I-B1	ISOB1	17x22	17x22
I-B2	ISOB2	18x24	18x24
I-B3	ISOB3	A-FLS	Australian-FOOLSCAP
I-B4	ISOB4	ALGL	Argentina-LEGAL
I-B5	ISOB5	ALTR	Argentina-LETTER
I-B6	ISOB6	OFI	OFICIO
I-B7	ISOB7	A-OFI	Argentina-OFICIO
I-C0	ISOC0	B-OFI	Bolivia-OFICIO
I-C1	ISOC1	E-OFI	Ecuador-OFICIO
I-C2	ISOC2	M-OFI	Mexico-OFICIO
I-C3	ISOC3	KLGL	Korea-LEGAL
I-C4	ISOC4	GLGL	Government-LEGAL
I-C5	ISOC5	GLTR	Government-LETTER
I-C6	ISOC6	IND-LGL	India-LEGAL
I-C7	ISOC7	COM10	COM10
I-SRA3	SRA3	DL	DL
J-B0	JISB0	E_C2	Nagagata 2
J-B1	JISB1	E_C3	Nagagata 3
J-B2	JISB2	E_C4	Nagagata 4
J-B3	JISB3	E_C5	Nagagata 5
J-B4	JISB4	E-K2	Kakugata 2
J-B5	JISB5	E_K3	Kakugata 3
J-B6	JISB6	E_K4	Kakugata 4
J-B7	JISB7	E_K5	Kakugata 5
K16	K16	E_K6	Kakugata 6
K8	K8	E_K7	Kakugata 7
ND-PCD	Newdry Postcard	E_K8	Kakugata 8
OTHER	OTHER	E_Y1	Yougata 1
PCARD	Postcard	E-Y2	Yougata 2
PCARD4	4 on 1 Postcard	E_Y3	Yougata 3
F4A	F4A	E-Y4	Yougata 4
F4B	F4B	E_Y5	Yougata 5
FLSC	FOOLCAP	E_Y6	Yougata 6
FOLIO	FLIO	E_Y7	Yougata 7
FREE	FREE SIZE	EVLP_YN3	Yougatanaga 3
ICARD	INDEXCARD	E-B5	B5 Envelope
USER	Custom	E-C5	C5 Envelope
		MONA	MONARCH
		EVLP	Unknown size envelope

Points to Note When Clearing MN-CON

- Execution of clearing MN-COM deletes all data in Address Book, Forwarding Settings, Settings/Registration (Adjustment/Maintenance, Function Settings, Set Destination, Management Settings, TPM Settings), etc. Before execution of this operation, ask user to back up the data and get approval for this operation.
- Clearing MN-CON will clear the service mode setting values. Be sure to enter the service mode setting values again in accordance with the configuration of the options of the host machine and requests from the user.
- When clearing MN-CON while any login application other than User Authentication is, error such as not displayed login screen occurred. In this case, access SMS once and switch login application to User Authentication to recover to the normal status.

Points to Note When Clearing HDD

As a remedy for error codes (E602-XXXX), HDD partition is selected and the target partition may be cleared.

When clearing partition, be sure to check which data will be deleted by referring Detail of HDD partition and explain to the user before starting work.

Error Code

Error Code Details

E001-0001-05	Fixing Thermistor high temperature detection error
Detection Description	The Fixing Main Thermistor detected a high temperature error.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Fixing Motor (M21) - Fixing Film Unit - Pressure Roller Unit - Shutter Unit - Fixing Drive Unit - 27T Gear - Fixing Unit <p>[Remedy]</p> <ul style="list-style-type: none"> - Check COPIER> DISPLAY> ANALOG> FIX-E. a. In the case of below 283 deg C, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. b. In the case of 283 deg C or higher, check/replace the related harness/cable, connector and parts. <p>[Caution]</p> <p>When replacing the Fixing Film Unit, turn the power ON after replacement. After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>
E001-0002-05	Fixing Thermistor high temperature detection error
Detection Description	The Fixing Thermistor (Front) detected a high temperature error.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Fixing Motor (M21) - Fixing Film Unit - Pressure Roller Unit - Shutter Unit - Fixing Drive Unit - 27T Gear - Fixing Unit <p>[Remedy]</p> <ul style="list-style-type: none"> - Check COPIER> DISPLAY> ANALOG> FIX-E2. a. In the case of below 295 deg C, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. b. In the case of 295 deg C or higher, check/replace the related harness/cable, connector and parts. <p>[Caution]</p> <p>When replacing the Fixing Film Unit, turn the power ON after replacement. After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>

E001-0003-05	Fixing Thermistor high temperature detection error
Detection Description	The Fixing Thermistor (Rear) detected a high temperature error.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Fixing Motor (M21) - Fixing Film Unit - Pressure Roller Unit - Shutter Unit - Fixing Drive Unit - 27T Gear - Fixing Unit <p>[Remedy]</p> <ul style="list-style-type: none"> - Check COPIER> DISPLAY> ANALOG> FIX-E3. <p>a. In the case of below 295 deg C, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power.</p> <p>b. In the case of 295 deg C or higher, check/replace the related harness/cable, connector and parts.</p> <p>[Caution]</p> <p>When replacing the Fixing Film Unit, turn the power ON after replacement.</p> <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>
E001-0004-05	Fixing Thermistor high temperature detection error
Detection Description	The Fixing Film Thermistor (Middle) detected a high temperature error.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - DC Controller PCB - Fixing Film Unit - Shutter Unit <p>[Remedy]</p> <ul style="list-style-type: none"> - Check COPIER> DISPLAY> ANALOG> FIX-C. <p>a. In the case of below 260 deg C, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power.</p> <p>b. In the case of 260 deg C or higher, check/replace the related harness/cable, connector and parts.</p> <p>[Caution]</p> <p>When replacing the Fixing Film Unit, turn the power ON after replacement.</p> <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>
E001-0005-05	Fixing Thermistor high temperature detection error
Detection Description	The Fixing Film Thermistor (Front) detected a high temperature error.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - DC Controller PCB - Fixing Film Unit - Shutter Unit <p>[Remedy]</p> <ul style="list-style-type: none"> - Check COPIER> DISPLAY> ANALOG> FIX-F. <p>a. In the case of below 275 deg C, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power.</p> <p>b. In the case of 275 deg C or higher, check/replace the related harness/cable, connector and parts.</p> <p>[Caution]</p> <p>When replacing the Fixing Film Unit, turn the power ON after replacement.</p> <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>

E001-0006-05	Fixing Thermistor high temperature detection error
<p>Detection Description</p> <p>Remedy</p>	<p>The Fixing Film Thermistor (Rear) detected a high temperature error.</p> <hr/> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - DC Controller PCB - Fixing Film Unit - Shutter Unit <p>[Remedy]</p> <ul style="list-style-type: none"> - Check COPIER> DISPLAY> ANALOG> FIX-R. <p>a. In the case of below 275 deg C, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power.</p> <p>b. In the case of 275 deg C or higher, check/replace the related harness/cable, connector and parts.</p> <p>[Caution]</p> <p>When replacing the Fixing Film Unit, turn the power ON after replacement.</p> <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>
E001-0007-05	Fixing Thermistor high temperature detection error
<p>Detection Description</p> <p>Remedy</p>	<p>The Fixing Thermistor detected a high temperature error by hardware detection.</p> <hr/> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Fixing Motor (M21) - Fixing Film Unit - Pressure Roller Unit - Shutter Unit - Fixing Drive Unit - 27T Gear - Fixing Unit <p>[Remedy]</p> <ul style="list-style-type: none"> - Check that the following service mode value is at the upper limit temperature or lower. - COPIER> DISPLAY> ANALOG> FIX-E: Upper limit temperature 283 deg C - COPIER> DISPLAY> ANALOG> FIX-E2: Upper limit temperature 295 deg C - COPIER> DISPLAY> ANALOG> FIX-E3: Upper limit temperature 295 deg C - COPIER> DISPLAY> ANALOG> FIX-F: Upper limit temperature 260 deg C - COPIER> DISPLAY> ANALOG> FIX-R: Upper limit temperature 275 deg C <p>a. If it is the upper limit temperature or lower, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power.</p> <p>b. If it exceeds the upper limit temperature, check/replace the related harness/cable, connector and parts.</p> <p>[Caution]</p> <p>When replacing the Fixing Film Unit, turn the power ON after replacement.</p> <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>

E002-0001-05	Fixing Thermistor temperature increase detection error
Detection Description	After the Fixing Heater was turned ON, the Fixing Main Thermistor detected no temperature increase.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Harness connecting the AC Driver PCB (J502), Drawer Unit (J5012) - DC Controller PCB - Fixing Film Unit - Shutter Unit <p>[Remedy]</p> <p>Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. 2. Check/replace the related harness/cable, connector and parts. <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>
E002-0002-05	Fixing Thermistor temperature increase detection error
Detection Description	Startup control was not completed although 60 sec had passed.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (UN1/J122), Drawer Unit (J5012), and Fixing Film Unit - Harness connecting the AC Driver PCB (UN6/J502), Drawer Unit (J5012), and Fixing Film Unit - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Fixing Motor (M21) - Fixing Film Unit - Pressure Roller Unit - Shutter Unit - Fixing Drive Unit - 27T Gear - Fixing Unit <p>[Remedy]</p> <p>Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. 2. Check/replace the related harness/cable, connector and parts. <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>
E002-0003-05	Fixing Thermistor temperature increase detection error
Detection Description	After the Fixing Heater was turned ON, the Fixing Main Thermistor detected error in temperature increase.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Harness connecting the AC Driver PCB (J502), Drawer Unit (J5012) - DC Controller PCB - Fixing Film Unit - Shutter Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. 2. Check/replace the related harness/cable, connector and parts. <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>

E002-0004-05	Fixing Thermistor temperature increase detection error
Detection Description	After the Fixing Heater was turned ON, the Fixing Thermistor (Front) detected error in temperature increase.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Harness connecting the AC Driver PCB (J502), Drawer Unit (J5012) - DC Controller PCB - Fixing Film Unit - Shutter Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. 2. Check/replace the related harness/cable, connector and parts. <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>
E002-0005-05	Fixing Thermistor temperature increase detection error
Detection Description	After the Fixing Heater was turned ON, the Fixing Thermistor (Rear) detected error in temperature increase.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Harness connecting the AC Driver PCB (J502), Drawer Unit (J5012) - DC Controller PCB - Fixing Film Unit - Shutter Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. 2. Check/replace the related harness/cable, connector and parts. <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>
E002-0006-05	Fixing Thermistor temperature increase detection error
Detection Description	The Fixing Film Thermistor (Middle) detected no temperature increase.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Harness connecting the AC Driver PCB (J502), Drawer Unit (J5012) - DC Controller PCB - Fixing Film Unit - Shutter Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. 2. Check/replace the related harness/cable, connector and parts. <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>
E002-0007-05	Fixing Thermistor temperature increase detection error
Detection Description	The Fixing Film Thermistor (Front) detected no temperature increase.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Harness connecting the AC Driver PCB (J502), Drawer Unit (J5012) - DC Controller PCB - Fixing Film Unit - Shutter Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. 2. Check/replace the related harness/cable, connector and parts. <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>

E002-0008-05	Fixing Thermistor temperature increase detection error
Detection Description	The Fixing Film Thermistor (Rear) detected no temperature increase.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Harness connecting the AC Driver PCB (J502), Drawer Unit (J5012) - DC Controller PCB - Fixing Film Unit - Shutter Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. 2. Check/replace the related harness/cable, connector and parts. <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>
E002-0009-05	Fixing Thermistor temperature increase detection error
Detection Description	The Fixing Film Thermistor (Middle) detected error in temperature increase.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Harness connecting the AC Driver PCB (J502), Drawer Unit (J5012) - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Fixing Motor (M21) - Fixing Film Unit - Pressure Roller Unit - Shutter Unit - Fixing Drive Unit - 27T Gear - Fixing Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. 2. Check/replace the related harness/cable, connector and parts. <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>
E002-0010-05	Fixing Thermistor temperature increase detection error
Detection Description	The Fixing Film Thermistor (Front) detected error in temperature increase.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Harness connecting the AC Driver PCB (J502), Drawer Unit (J5012) - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Fixing Motor (M21) - Fixing Film Unit - Pressure Roller Unit - Shutter Unit - Fixing Drive Unit - 27T Gear - Fixing Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. 2. Check/replace the related harness/cable, connector and parts. <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>

E002-0011-05	Fixing Thermistor temperature increase detection error
Detection Description	The Fixing Film Thermistor (Rear) detected error in temperature increase.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Harness connecting the AC Driver PCB (J502), Drawer Unit (J5012) - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Fixing Motor (M21) - Fixing Film Unit - Pressure Roller Unit - Shutter Unit - Fixing Drive Unit - 27T Gear - Fixing Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. 2. Check/replace the related harness/cable, connector and parts. <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>
E003-0001-05	Fixing Thermistor low temperature detection error
Detection Description	The Fixing Main Thermistor detected an abnormally low temperature during print control.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Harness connecting the AC Driver PCB (J502), Drawer Unit (J5012) - DC Controller PCB - Fixing Film Unit - Shutter Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. 2. Check/replace the related harness/cable, connector and parts. <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>
E003-0002-05	Fixing Thermistor low temperature detection error
Detection Description	The Fixing Sub Thermistor (Front) detected an abnormally low temperature during print control.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Harness connecting the AC Driver PCB (J502), Drawer Unit (J5012) - DC Controller PCB - Fixing Film Unit - Shutter Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. 2. Check/replace the related harness/cable, connector and parts. <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>

E003-0003-05	Fixing Thermistor low temperature detection error
Detection Description	The Fixing Sub Thermistor (Rear) detected an abnormally low temperature during print control.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Harness connecting the AC Driver PCB (J502), Drawer Unit (J5012) - DC Controller PCB - Fixing Film Unit - Shutter Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. 2. Check/replace the related harness/cable, connector and parts. <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>
E003-0004-05	Fixing Thermistor low temperature detection error
Detection Description	The Fixing Film Thermistor (Middle) detected an abnormally low temperature during print control.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Harness connecting the AC Driver PCB (J502), Drawer Unit (J5012) - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Fixing Motor (M21) - Fixing Film Unit - Pressure Roller Unit - Shutter Unit - Fixing Drive Unit - 27T Gear - Fixing Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. 2. Check/replace the related harness/cable, connector and parts. <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>
E003-0005-05	Fixing Thermistor low temperature detection error
Detection Description	The Fixing Film Thermistor (Front) detected an abnormally low temperature during print control.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Harness connecting the AC Driver PCB (J502), Drawer Unit (J5012) - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Fixing Motor (M21) - Fixing Film Unit - Pressure Roller Unit - Shutter Unit - Fixing Drive Unit - 27T Gear - Fixing Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. 2. Check/replace the related harness/cable, connector and parts. <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>

E003-0006-05	Fixing Thermistor low temperature detection error
Detection Description	The Fixing Film Thermistor (Rear) detected an abnormally low temperature during print control.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Harness connecting the AC Driver PCB (J502), Drawer Unit (J5012) - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Fixing Motor (M21) - Fixing Film Unit - Pressure Roller Unit - Shutter Unit - Fixing Drive Unit - 27T Gear - Fixing Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. 2. Check/replace the related harness/cable, connector and parts. <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>
E003-0007-05	Fixing Thermistor low temperature detection error
Detection Description	An error in temperature difference between the Fixing Film Thermistor (Front) and (Rear) was detected during print control.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Harness connecting the AC Driver PCB (J502), Drawer Unit (J5012) - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Fixing Motor (M21) - Fixing Film Unit - Pressure Roller Unit - Shutter Unit - Fixing Drive Unit - 27T Gear - Fixing Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR. Then, turn OFF and then ON the main power. 2. Check/replace the related harness/cable, connector and parts. <p>After performing the remedy work, go through the following to clear the error: COPIER> FUNCTION> CLEAR> ERR.</p>
E004-0000-05	Fixing Thermistor disconnection detection error
Detection Description	Open circuit of the Fixing Thermistor or connector disconnection was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the DC Controller PCB (J122), Drawer Unit (J5012) - Fixing Unit - Fixing Film Unit - Shutter Unit - DC Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check that the Fixing Assembly is properly installed. 2. Check/replace the related harness/cable, connector and parts.

E004-0001-05	Fixing relay welding detection error
Detection Description	Welding of the fixing relay on the AC Driver PCB was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - DC Controller PCB - AC Driver PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Replace the AC Driver PCB . 2. Replace the DC Controller PCB . <p>[Caution]</p> <p>If it is left as it is, other fixing-related errors (E001 to E003) may occur.</p>
E009-0000-05	Fixing pressure timeout error
Detection Description	The Fixing Pressure Sensor did not detect ON status within 5 sec after the start of pressure application operation for fixing.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Feed/Drum Driver PCB (UN2/J215) and Fixing Motor (M21/J6084) - Harness between the DC Controller PCB (UN1/J172,J170) and Feed/Drum Driver PCB (UN2/J203,J202) - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Fixing Motor (M21) - Fixing Film Unit - Fixing Holder Assembly - Fixing Pressure Sensor (PS30) - Fixing Drive Unit - 27T Gear - Fixing Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Turn OFF and then ON the main power. 2. Check that the Fixing Assembly is properly installed. 3. Check/replace the related harness/cable, connector and parts.
E009-0001-05	Fixing disengagement timeout error
Detection Description	The Fixing Pressure Sensor did not detect OFF status within 5 sec after the start of fixing disengagement operation.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Feed/Drum Driver PCB (UN2/J215) and Fixing Motor (M21/J6084) - Harness between the DC Controller PCB (UN1/J172,J170) and Feed/Drum Driver PCB (UN2/J203,J202) - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Fixing Motor (M21) - Fixing Drive Unit - Sensor Holder - Fixing Pressure Sensor (PS30) - Fixing Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Turn OFF and then ON the main power. 2. Check that the Fixing Assembly is properly installed. 3. Check/replace the related harness/cable, connector and parts.

E009-0002-05	Fixing pressure error
Detection Description	The gears did not stop at pressure application position within 10 times after the start of pressure application operation for fixing.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Feed/Drum Driver PCB (UN2/J215) and Fixing Motor (M21/J6084) - Harness between the DC Controller PCB (UN1/J172,J170) and Feed/Drum Driver PCB (UN2/J203,J202) - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Fixing Motor (M21) - Fixing Drive Unit - Sensor Holder - Fixing Pressure Sensor (PS30) - Fixing Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Turn OFF and then ON the main power. 2. Check that the Fixing Assembly is properly installed. 3. Clean the grease scattered on the gears in the Fixing Unit. <ol style="list-style-type: none"> 3-1. Remove the Fixing Unit and the Pressure Release Plate Assembly. 3-2. Wipe off the grease scattered on/around the Pressure Release Cam and the Pressure Plate with lint-free paper moistened with alcohol. 3-3. Wipe off any excess grease on the side of the gears and shaft in the host machine. 4. Check/replace the related harness/cable, connector and parts.
E012-0002-05	Lock signal error at the start of driving the Drum Motor
Detection Description	LOCK signal was detected twice consecutively at the start of driving the Drum Motor.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Feed/Drum Driver PCB (UN2/J226) and Drum Motor (Bk) (M4/J2262) - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Drum Motor (Bk) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check/replace the disconnected connector or open circuit of the Harness between the Feed/Drum Driver PCB and Drum Motor (Bk). 2. Check/replace the disconnected connector or open circuit of the Harness between the Relay PCB and Feed/Drum Driver PCB. 3. Check/replace the Drum Motor (Bk) (M4). 4. Check/replace the Feed/Drum Driver PCB. 5. Check/replace the Relay PCB. 6. Check/replace the Power Supply Unit.

E012-0101-05	Drum Motor error
Detection Description	Rotation speed error of the Drum Motor (YMC) was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Feed/Drum Driver PCB (UN2/J226) and Drum Motor (YMC) (M1/J2261) - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Drum Motor (YMC) (M1) - Main Drive Unit - Drum Unit (Y) - Drum Unit (M) - Drum Unit (C) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check/replace the disconnected connector or open circuit of the Harness between the Feed/Drum Driver PCB and Drum Motor (YMC). 2. Check/replace the disconnected connector or open circuit of the Harness between the Relay PCB and Feed/Drum Driver PCB. 3. Check/replace the Drum Motor (YMC). 4. Check/replace the Feed/Drum Driver PCB. 5. Check for the load of the Drum Unit (Y), Drum Unit (M), and Drum Unit (C). 5-1. Method for checking the load: Turn the coupling area of the Drum Unit in the rotation direction as seen from the host machine by hand (the rotation direction is counterclockwise as seen from the coupling side). 5-2. When load weight: Replace the target Drum Unit. 5-3. When not load weight: Check/replace the Main Drive Unit. 6. Check/replace the Relay PCB. 7. Check/replace the Power Supply Unit.
E012-0401-05	Drum Motor error
Detection Description	Rotation speed error of the Drum Motor (Bk) was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Feed/Drum Driver PCB (UN2/J226) and Drum Motor (Bk) (M4/J2262) - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Drum Motor (Bk) (M4) - Main Drive Unit - Drum Unit (Bk) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check/replace the disconnected connector or open circuit of the Harness between the Feed/Drum Driver PCB and Drum Motor (Bk). 2. Check/replace the disconnected connector or open circuit of the Harness between the Relay PCB and Feed/Drum Driver PCB. 3. Check/replace the Drum Motor (Bk). 4. Check/replace the Feed/Drum Driver PCB. 5. Check the Drum Unit (Bk) load. 5-1. Method for checking the load: Turn the coupling area of the Drum Unit in the rotation direction as seen from the host machine by hand (the rotation direction is counterclockwise as seen from the coupling side). 5-2. When load weight: Replace the Drum Unit (Bk). 5-3. When not load weight: Check/replace the Main Drive Unit. 6. Check/replace the Relay PCB. 7. Check/replace the Power Supply Unit.

E012-1000-05	ITB Motor error
Detection Description	Lock signal error of the ITB Motor was detected while the ITB was being driven.
Remedy	<p data-bbox="443 203 603 235">[Related parts]</p> <ul data-bbox="443 237 1311 456" style="list-style-type: none"> - Harness between the Front Driver PCB (UN3/J303) and ITB Motor (M13/J3030) - Harness between the Relay PCB (UN5/J402) and Front Driver PCB (UN3/J304) - Power Supply Unit - Front Driver PCB - Relay PCB - ITB Motor (M13) - ITB Cleaning Unit <p data-bbox="443 459 1382 490">[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol data-bbox="443 492 1458 875" style="list-style-type: none"> 1. Check/replace the disconnected connector or open circuit of the Harness between the Front Driver PCB and ITB Motor. 2. Check/replace the disconnected connector or open circuit of the Harness between the Relay PCB and Front Driver PCB. 3. Remove the ITB Unit from the machine and check its status. <ol data-bbox="443 651 890 745" style="list-style-type: none"> 3-1. Check the status of/replace the Belt. 3-2. Check/replace the ITB Cleaning Unit. 3-3. Check the Drive Assembly. 4. Check/replace the ITB Motor. 5. Check/replace the Front Driver PCB. 6. Check/replace the Relay PCB. 7. Check/replace the Power Supply Unit.
E012-1001-05	ITB Motor error
Detection Description	Lock signal error of the ITB was detected consecutively when starting the drive of the ITB.
Remedy	<p data-bbox="443 981 603 1012">[Related parts]</p> <ul data-bbox="443 1014 1311 1198" style="list-style-type: none"> - Harness between the Front Driver PCB (UN3/J303) and ITB Motor (M13/J3030) - Harness between the Relay PCB (UN5/J402) and Front Driver PCB (UN3/J304) - Power Supply Unit - Front Driver PCB - Relay PCB - ITB Motor (M13) <p data-bbox="443 1200 1382 1232">[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol data-bbox="443 1234 1458 1482" style="list-style-type: none"> 1. Check/replace the disconnected connector or open circuit of the Harness between the Front Driver PCB and ITB Motor. 2. Check/replace the disconnected connector or open circuit of the Harness between the Relay PCB and Front Driver PCB. 3. Check/replace the ITB Motor. 4. Check/replace the Front Driver PCB. 5. Check/replace the Relay PCB. 6. Check/replace the Power Supply Unit.

E013-0001-05	Waste Toner Stirring Motor error
Detection Description	Rotation error of the Waste Toner Stirring Motor was detected consecutively.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Waste Toner Drive Unit - Waste Toner Container - Harness connecting the Feed/Drum Driver PCB (UN2/J230), Relay Connector (J6204/9P), and Recycle Toner Stirring Motor (M45/J6244) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the amount of waste toner in the Waste Toner Container (and replace it if there is a lot). 2. Check for connector disconnection or open circuit in the Recycle Toner Stirring Motor (M45). 3. Check the Harness connecting the Feed/Drum Driver PCB (UN2/J230), Relay Connector (J6204/9P), and Recycle Toner Stirring Motor (M45/J6244). 4. Check/replace the Waste Toner Drive Unit. 5. Replace the Feed/Drum Driver PCB (UN2). 6. Replace the Power Supply Unit. 7. Replace the Relay PCB (UN5).
E013-0002-05	Waste Toner Feed Motor error
Detection Description	Rotation error of the Waste Toner Feed Motor was detected consecutively.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - Front Driver PCB - Relay PCB - Feed Motor Drive Unit - Waste Toner Container - Waste Toner Feed Unit - Harness connecting the Front Driver PCB (UN3/J306), Drawer Unit (J755), and Waste Toner Feed Motor (M26-J6111) <p>[Remedy] Perform the following while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the amount of waste toner in the Waste Toner Container, and replace it if there is a lot. 2. Check for connector disconnection or open circuit in the Waste Toner Feed Motor (M26). 3. Check the Harness connecting the Front Driver PCB (UN3/J306), Drawer Unit (J755), and Waste Toner Feed Motor (M26-J6111). 4. Check/replace the Waste Toner Feed Motor (M26). 5. Check the amount of waste toner in the waste toner feed route on the Process Unit side, and replace the Waste Toner Feed Unit if there is a lot. 6. Replace the Front Driver PCB (UN2). 7. Replace the Relay PCB (UN5). 8. Replace the Power Supply Unit.
E014-0001-05	Fixing Motor error
Detection Description	Lock error of the Fixing Motor was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Feed/Drum Driver PCB (UN2/J215) and Fixing Motor (M21/J6084) - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Fixing Motor (M21) - Fixing Film Unit - Pressure Roller Unit - Fixing Drive Unit - 27T Gear - Fixing Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check that the Fixing Assembly is properly installed. 2. Check/replace the related harness/cable, connector and parts.

E020-0124-05	ATR output error
Detection Description	The ATR Patch (Y) detected that the output value (SigD) was below the lower limit at initialization of the Developing Assembly.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Laser Shutter (Y) - Developing High-Voltage PCB (YMC) - Drum Unit (Y) - Small-diameter Coaxial Cable - Charging High-Voltage PCB (YMC) - Developing Assembly (Y) - Laser Scanner Unit (YM) - DC Controller PCB - Main Controller PCB - Riser PCB - Process-kit Frame Assembly - Primary Transfer/Bk Developing Charging High-Voltage PCB - ITB Unit - Registration Patch Sensor Unit - Pattern Read Shutter Drive Unit - Power Supply Unit - Relay PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (Y) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Clean the Exposure Window. 2. Clean the Registration Patch Sensor Unit . 3. Check the installation status and opening and closing operations of the Laser Shutter (Y) . 4. Check/replace the related harness/cable, connector and parts.
E020-0134-05	ATR output error
Detection Description	The ATR Patch (Y) detected that the output value (SigD) exceeded the upper limit at initialization of the Developing Assembly.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Developing High-Voltage PCB (YMC) - Drum Unit (Y) - Small-diameter Coaxial Cable - Charging High-Voltage PCB (YMC) - Developing Assembly (Y) - Laser Scanner Unit (YM) - DC Controller PCB - Main Controller PCB - Registration Patch Sensor Unit - Pattern Read Shutter Drive Unit - Power Supply Unit - Relay PCB <p>[Remedy] Check/replace the related harness/cable, connector and parts while checking whether the machine recovers from the error.</p>

E020-01A8-05	ATR output error
Detection Description	The ATR Sensor (Y) detected that the output value was below the lower limit during printing.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Developing High-Voltage PCB (YMC) - Charging High-Voltage PCB (YMC) - Drum Unit (Y) - Developing Assembly (Y) - Small-diameter Coaxial Cable - Laser Scanner Unit (YM) - DC Controller PCB - Feed/Drum Driver PCB - Front Driver PCB - Y Pre-Exposure Led PCB (Front) - Y Pre-Exposure Led PCB (Rear) - Relay PCB - Power Supply Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (Y) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.
E020-01A9-05	ATR output error
Detection Description	The ATR Sensor (Y) detected that the output value exceeded the upper limit during printing.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Developing High-Voltage PCB (YMC) - Charging High-Voltage PCB (YMC) - Drum Unit (Y) - Developing Assembly (Y) - Small-diameter Coaxial Cable - Laser Scanner Unit (YM) - DC Controller PCB - Feed/Drum Driver PCB - Front Driver PCB - Relay PCB - Power Supply Unit - Hopper Unit (Y) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (Y) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.

E020-01B8-05	ATR output error
Detection Description	The ATR Sensor (Y) detected a control voltage less than 2.5 V at initialization of the Developing Assembly.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Developing High-Voltage PCB (YMC) - Charging High-Voltage PCB (YMC) - Drum Unit (Y) - Developing Assembly (Y) - Small-diameter Coaxial Cable - Laser Scanner Unit (YM) - DC Controller PCB - Main Controller PCB - Feed/Drum Driver PCB - Front Driver PCB - Relay PCB - Power Supply Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (Y) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.
E020-01B9-05	ATR output error
Detection Description	The ATR Sensor (Y) detected 4.5 V or more of control voltage at initialization of the Developing Assembly.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Developing High-Voltage PCB (YMC) - Charging High-Voltage PCB (YMC) - Drum Unit (Y) - Developing Assembly (Y) - Small-diameter Coaxial Cable - Laser Scanner Unit (YM) - DC Controller PCB - Feed/Drum Driver PCB - Front Driver PCB - Relay PCB - Power Supply Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (Y) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.

E020-0224-05	ATR output error
Detection Description	The ATR Patch (M) detected that the output value (SigD) was below the lower limit at initialization of the Developing Assembly.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Laser Shutter (M) - Developing High-Voltage PCB (YMC) - Drum Unit (M) - Small-diameter Coaxial Cable - Charging High-Voltage PCB (YMC) - Developing Assembly (M) - Laser Scanner Unit (YM) - DC Controller PCB - Main Controller PCB - Riser PCB - Process-kit Frame Assembly - Primary Transfer/Bk Developing Charging High-Voltage PCB - ITB Unit - Registration Patch Sensor Unit - Pattern Read Shutter Drive Unit - Power Supply Unit - Relay PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (M) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Clean the Exposure Window. 2. Clean the Registration Patch Sensor Unit . 3. Check the installation status and opening and closing operations of the Laser Shutter (M) . 4. Check/replace the related harness/cable, connector and parts.
E020-0234-05	ATR output error
Detection Description	The ATR Patch (M) detected that the output value (SigD) exceeded the upper limit at initialization of the Developing Assembly.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Developing High-Voltage PCB (YMC) - Drum Unit (M) - Small-diameter Coaxial Cable - Charging High-Voltage PCB (YMC) - Developing Assembly (M) - Laser Scanner Unit (YM) - DC Controller PCB - Main Controller PCB - Registration Patch Sensor Unit - Pattern Read Shutter Drive Unit - Power Supply Unit - Relay PCB <p>[Remedy] Check/replace the related harness/cable, connector and parts while checking whether the machine recovers from the error.</p>

E020-02A8-05	ATR output error
Detection Description	The ATR Sensor (M) detected that the output value was below the lower limit during printing.
Remedy	<p data-bbox="443 206 603 237">[Related parts]</p> <ul style="list-style-type: none"> <li data-bbox="443 237 858 268">- Developing High-Voltage PCB (YMC) <li data-bbox="443 268 839 300">- Charging High-Voltage PCB (YMC) <li data-bbox="443 300 612 331">- Drum Unit (M) <li data-bbox="443 331 735 362">- Developing Assembly (M) <li data-bbox="443 362 778 394">- Small-diameter Coaxial Cable <li data-bbox="443 394 727 425">- Laser Scanner Unit (YM) <li data-bbox="443 425 663 456">- DC Controller PCB <li data-bbox="443 456 708 488">- Feed/Drum Driver PCB <li data-bbox="443 488 644 519">- Front Driver PCB <li data-bbox="443 519 820 551">- M Pre-Exposure Led PCB (Front) <li data-bbox="443 551 815 582">- M Pre-Exposure Led PCB (Rear) <li data-bbox="443 582 580 613">- Relay PCB <li data-bbox="443 613 660 645">- Power Supply Unit <p data-bbox="443 656 1382 687">[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p data-bbox="443 687 778 719">a) If condensation is suspected</p> <ol style="list-style-type: none"> <li data-bbox="443 719 1476 777">1. Replace the Developing Assembly (M) after confirming that condensation has been completely eliminated. <p data-bbox="443 777 1476 835">b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> <li data-bbox="443 835 1134 866">1. Check/replace the related harness/cable, connector and parts.
E020-02A9-05	ATR output error
Detection Description	The ATR Sensor (M) detected that the output value exceeded the upper limit during printing.
Remedy	<p data-bbox="443 983 603 1014">[Related parts]</p> <ul style="list-style-type: none"> <li data-bbox="443 1014 858 1046">- Developing High-Voltage PCB (YMC) <li data-bbox="443 1046 839 1077">- Charging High-Voltage PCB (YMC) <li data-bbox="443 1077 612 1108">- Drum Unit (M) <li data-bbox="443 1108 735 1140">- Developing Assembly (M) <li data-bbox="443 1140 778 1171">- Small-diameter Coaxial Cable <li data-bbox="443 1171 727 1202">- Laser Scanner Unit (YM) <li data-bbox="443 1202 663 1234">- DC Controller PCB <li data-bbox="443 1234 708 1265">- Feed/Drum Driver PCB <li data-bbox="443 1265 644 1296">- Front Driver PCB <li data-bbox="443 1296 580 1328">- Relay PCB <li data-bbox="443 1328 660 1359">- Power Supply Unit <li data-bbox="443 1359 635 1391">- Hopper Unit (M) <p data-bbox="443 1402 1382 1433">[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p data-bbox="443 1433 778 1464">a) If condensation is suspected</p> <ol style="list-style-type: none"> <li data-bbox="443 1464 1476 1523">1. Replace the Developing Assembly (M) after confirming that condensation has been completely eliminated. <p data-bbox="443 1523 1476 1581">b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> <li data-bbox="443 1581 1134 1612">1. Check/replace the related harness/cable, connector and parts.

E020-02B8-05	ATR output error
Detection Description	The ATR Sensor (M) detected a control voltage less than 2.5 V at initialization of the Developing Assembly.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Developing High-Voltage PCB (YMC) - Charging High-Voltage PCB (YMC) - Drum Unit (M) - Developing Assembly (M) - Small-diameter Coaxial Cable - Laser Scanner Unit (YM) - DC Controller PCB - Main Controller PCB - Feed/Drum Driver PCB - Front Driver PCB - Relay PCB - Power Supply Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (M) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.
E020-02B9-05	ATR output error
Detection Description	The ATR Sensor (M) detected 4.5 V or more of control voltage at initialization of the Developing Assembly.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Developing High-Voltage PCB (YMC) - Charging High-Voltage PCB (YMC) - Drum Unit (M) - Developing Assembly (M) - Small-diameter Coaxial Cable - Laser Scanner Unit (YM) - DC Controller PCB - Feed/Drum Driver PCB - Front Driver PCB - Relay PCB - Power Supply Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (M) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.

E020-0324-05	ATR output error
Detection Description	The ATR Patch (C) detected that the output value (SigD) was below the lower limit at initialization of the Developing Assembly.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Laser Shutter (C) - Developing High-Voltage PCB (YMC) - Drum Unit (C) - Small-diameter Coaxial Cable - Charging High-Voltage PCB (YMC) - Developing Assembly (C) - Laser Scanner Unit (CK) - DC Controller PCB - Main Controller PCB - Riser PCB - Process-kit Frame Assembly - Primary Transfer/Bk Developing Charging High-Voltage PCB - ITB Unit - Registration Patch Sensor Unit - Pattern Read Shutter Drive Unit - Power Supply Unit - Relay PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (C) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Clean the Exposure Window. 2. Clean the Registration Patch Sensor Unit . 3. Check the installation status and opening and closing operations of the Laser Shutter (C) . 4. Check/replace the related harness/cable, connector and parts.
E020-0334-05	ATR output error
Detection Description	The ATR Patch (C) detected that the output value (SigD) exceeded the upper limit at initialization of the Developing Assembly.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Developing High-Voltage PCB (YMC) - Drum Unit (C) - Small-diameter Coaxial Cable - Charging High-Voltage PCB (YMC) - Developing Assembly (C) - Laser Scanner Unit (CK) - DC Controller PCB - Main Controller PCB - Registration Patch Sensor Unit - Pattern Read Shutter Drive Unit - Power Supply Unit - Relay PCB <p>[Remedy] Check/replace the related harness/cable, connector and parts while checking whether the machine recovers from the error.</p>

E020-03A8-05	ATR output error
Detection Description	The ATR Sensor (C) detected that the output value was below the lower limit during printing.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Developing High-Voltage PCB (YMC) - Charging High-Voltage PCB (YMC) - Drum Unit (C) - Developing Assembly (C) - Small-diameter Coaxial Cable - Laser Scanner Unit (CK) - DC Controller PCB - Feed/Drum Driver PCB - Front Driver PCB - C Pre-Exposure Led PCB (Front) - C Pre-Exposure Led PCB (Rear) - Relay PCB - Power Supply Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (C) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.
E020-03A9-05	ATR output error
Detection Description	The ATR Sensor (C) detected that the output value exceeded the upper limit during printing.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Developing High-Voltage PCB (YMC) - Charging High-Voltage PCB (YMC) - Drum Unit (C) - Developing Assembly (C) - Small-diameter Coaxial Cable - Laser Scanner Unit (CK) - DC Controller PCB - Feed/Drum Driver PCB - Front Driver PCB - Relay PCB - Power Supply Unit - Hopper Unit (C) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (C) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.

E020-03B8-05	ATR output error
Detection Description	The ATR Sensor (C) detected a control voltage less than 2.5 V at initialization of the Developing Assembly.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Developing High-Voltage PCB (YMC) - Charging High-Voltage PCB (YMC) - Drum Unit (C) - Developing Assembly (C) - Small-diameter Coaxial Cable - Laser Scanner Unit (CK) - DC Controller PCB - Main Controller PCB - Feed/Drum Driver PCB - Front Driver PCB - Relay PCB - Power Supply Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (C) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.
E020-03B9-05	ATR output error
Detection Description	The ATR Sensor (C) detected 4.5 V or more of control voltage at initialization of the Developing Assembly.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Developing High-Voltage PCB (YMC) - Charging High-Voltage PCB (YMC) - Drum Unit (C) - Developing Assembly (C) - Small-diameter Coaxial Cable - Laser Scanner Unit (CK) - DC Controller PCB - Feed/Drum Driver PCB - Front Driver PCB - Relay PCB - Power Supply Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (C) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.

E020-0424-05	ATR output error
Detection Description	The ATR Patch (Bk) detected that the output value (SigD) was below the lower limit at initialization of the Developing Assembly.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Laser Shutter (Bk) - Drum Unit (Bk) - Small-diameter Coaxial Cable - Primary Transfer/Bk Developing Charging High-Voltage PCB - Developing Assembly (Bk) - Laser Scanner Unit (CK) - DC Controller PCB - Main Controller PCB - Riser PCB - Process-kit Frame Assembly - ITB Unit - Registration Patch Sensor Unit - Pattern Read Shutter Drive Unit - Power Supply Unit - Relay PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (Bk) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Clean the Exposure Window. 2. Clean the Registration Patch Sensor Unit . 3. Check the installation status and opening and closing operations of the Laser Shutter (Bk) . 4. Check/replace the related harness/cable, connector and parts.
E020-0434-05	ATR output error
Detection Description	The ATR Patch (Bk) detected that the output value (SigD) exceeded the upper limit at initialization of the Developing Assembly.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Drum Unit (Bk) - Small-diameter Coaxial Cable - Primary Transfer/Bk Developing Charging High-Voltage PCB - Developing Assembly (Bk) - Laser Scanner Unit (CK) - DC Controller PCB - Main Controller PCB - Registration Patch Sensor Unit - Pattern Read Shutter Drive Unit - Power Supply Unit - Relay PCB <p>[Remedy] Check/replace the related harness/cable, connector and parts while checking whether the machine recovers from the error.</p>

E020-04A8-05	ATR output error
Detection Description	The ATR Sensor (Bk) detected that the output value was below the lower limit during printing.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Primary Transfer/Bk Developing Charging High-Voltage PCB - Drum Unit (Bk) - Developing Assembly (Bk) - Small-diameter Coaxial Cable - Laser Scanner Unit (CK) - DC Controller PCB - Feed/Drum Driver PCB - Front Driver PCB - Bk Pre-Exposure Led PCB (Front) - Bk Pre-Exposure Led PCB (Rear) - Relay PCB - Power Supply Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (Bk) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.
E020-04A9-05	ATR output error
Detection Description	The ATR Sensor (Bk) detected that the output value exceeded the upper limit during printing.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Primary Transfer/Bk Developing Charging High-Voltage PCB - Drum Unit (Bk) - Developing Assembly (Bk) - Small-diameter Coaxial Cable - Laser Scanner Unit (CK) - DC Controller PCB - Feed/Drum Driver PCB - Front Driver PCB - Relay PCB - Power Supply Unit - Hopper Unit (Bk) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (Bk) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.

E020-04B8-05	ATR output error
Detection Description	The ATR Sensor (Bk) detected a control voltage less than 2.5 V at initialization of the Developing Assembly.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Primary Transfer/Bk Developing Charging High-Voltage PCB - Drum Unit (Bk) - Developing Assembly (Bk) - Small-diameter Coaxial Cable - Laser Scanner Unit (CK) - DC Controller PCB - Main Controller PCB - Feed/Drum Driver PCB - Front Driver PCB - Relay PCB - Power Supply Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (Bk) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.
E020-04B9-05	ATR output error
Detection Description	The ATR Sensor (Bk) detected 4.5 V or more of control voltage at initialization of the Developing Assembly.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Primary Transfer/Bk Developing Charging High-Voltage PCB - Drum Unit (Bk) - Developing Assembly (Bk) - Small-diameter Coaxial Cable - Laser Scanner Unit (CK) - DC Controller PCB - Feed/Drum Driver PCB - Front Driver PCB - Relay PCB - Power Supply Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (Bk) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.

E021-0100-05	Developing Motor error
Detection Description	Lock signal error of the Developing Motor (Y) was detected consecutively.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Feed/Drum Driver PCB (UN2/J231) and Developing Motor (Y) (M5/J6015) - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Developing Motor (Y) (M5) - Toner Supply Clutch (Y) - Main Drive Unit - Developing Assembly (Y) - Hopper Unit (Y) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the load of the Developing Assembly (Y). (Turn the Gear by hand and replace the Developing Assembly (Y) if the load is heavy.) 2. Check the operation sound of the Motor. <ul style="list-style-type: none"> - SITUATION> Parts Check> Machine> Motors> Developing Motor (Y) (M5) <p>If the operation sound cannot be confirmed, check the Harness between the Feed/Drum Driver PCB (UN2/J231) and Developing Motor (Y) (M5/J6015) and the Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) (pinched wire, connector disconnection, or open circuit).</p> 3. Check/replace the Toner Supply Clutch (Y). 4. Check/replace the Main Drive Unit. 5. Replace the Feed/Drum Driver PCB. 6. Replace the Relay PCB (UN5). 7. Check/replace the Hopper Unit (Y).

E021-0120-05	Developing Screw rotation detection error
Detection Description	The difference between the maximum and the minimum of sampling values detected by the ATR Sensor (Y) in the Developing Assembly (Y) was 12 or less during rotation of the Developing Screw.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Front Driver PCB - Relay PCB - Developing High-Voltage PCB (YMC) - Charging High-Voltage PCB (YMC) - Developing Motor (Y) (M5) - Toner Supply Clutch (Y) - Main Drive Unit - Developing Assembly (Y) - Laser Scanner Unit (YM) - Hopper Unit (Y) - Drum Unit (Y) - Small-diameter Coaxial Cable - Y Pre-Exposure Led PCB (Front) - Y Pre-Exposure Led PCB (Rear) - Harness between the Feed/Drum Driver PCB (UN2/J231) and Developing Motor (Y) (M5/J6015) - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Harness connecting the Front Driver PCB (UN3/J306), Drawer Unit (J755), and Process Unit Relay PCB (UN20-J607) - Harness connecting the Process Unit Relay PCB (UN20/J609), Relay Connector (J5093/5P), and ATR Sensor (Y) (TS5/J6114) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (Y) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.

E021-0200-05	Developing Motor error
Detection Description	Lock signal error of the Developing Motor (M) was detected consecutively.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Feed/Drum Driver PCB (UN2/J231) and Developing Motor (M) (M6/J6013) - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Developing Motor (M) (M6) - Toner Supply Clutch (M) - Main Drive Unit - Developing Assembly (M) - Hopper Unit (M) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the load of the Developing Assembly (M). (Turn the Gear by hand and replace the Developing Assembly (M) if the load is heavy.) 2. Check the operation sound of the Motor. <ul style="list-style-type: none"> - SITUATION> Parts Check> Machine> Motor> Developing Motor (M) (M6) <p>If the operation sound cannot be confirmed, check the Harness between the Feed/Drum Driver PCB (UN2/J231) and Developing Motor (M) (M6/J6013) and the Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) (pinched wire, connector disconnection, or open circuit).</p> 3. Check/replace the Toner Supply Clutch (M). 4. Check/replace the Main Drive Unit. 5. Check/replace the Feed/Drum Driver PCB. 6. Check/replace the Relay PCB. 7. Check/replace the Hopper Unit (M).

E021-0220-05	Developing Screw rotation detection error
Detection Description	The difference between the maximum and the minimum of sampling values detected by the ATR Sensor (M) in the Developing Assembly (M) was 12 or less during rotation of the Developing Screw.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Front Driver PCB - Relay PCB - Developing High-Voltage PCB (YMC) - Charging High-Voltage PCB (YMC) - Developing Motor (M) (M6) - Toner Supply Clutch (M) - Main Drive Unit - Developing Assembly (M) - Laser Scanner Unit (YM) - Hopper Unit (M) - Drum Unit (M) - Small-diameter Coaxial Cable - M Pre-Exposure Led PCB (Front) - M Pre-Exposure Led PCB (Rear) - Harness between the Feed/Drum Driver PCB (UN2/J231) and Developing Motor (M) (M6/J6013) - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Harness connecting the Front Driver PCB (UN3/J306), Drawer Unit (J755), and Process Unit Relay PCB (UN20-J607) - Harness connecting the Process Unit Relay PCB (UN20/J609), Relay Connector (J5094/5P), and ATR Sensor (M) (TS6/J6116) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (M) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.

E021-0300-05	Developing Motor error
Detection Description	Lock signal error of the Developing Motor (C) was detected consecutively.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Feed/Drum Driver PCB (UN2/J231) and Developing Motor (C) (M7/J6012) - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Developing Motor (C) (M7) - Toner Supply Clutch (C) - Main Drive Unit - Developing Assembly (C) - Hopper Unit (C) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the load of the Developing Assembly (C). (Turn the Gear by hand and replace the Developing Assembly (C) if the load is heavy.) 2. Check the operation sound of the Motor. <ul style="list-style-type: none"> - SITUATION> Parts Check> Machine> Motors> Developing Motor (C) (M7) <p>If the operation sound cannot be confirmed, check the Harness between the Feed/Drum Driver PCB (UN2/J231) and Developing Motor (C) (M7/J6012) and the Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) (pinched wire, connector disconnection, or open circuit).</p> 3. Check/replace the Toner Supply Clutch (C). 4. Check/replace the Main Drive Unit. 5. Replace the Feed/Drum Driver PCB. 6. Replace the Relay PCB (UN5). 7. Check/replace the Hopper Unit (C).

E021-0320-05	Developing Screw rotation detection error
Detection Description	The difference between the maximum and the minimum of sampling values detected by the ATR Sensor (C) in the Developing Assembly (C) was 12 or less during rotation of the Developing Screw.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Front Driver PCB - Relay PCB - Developing High-Voltage PCB (YMC) - Charging High-Voltage PCB (YMC) - Developing Motor (C) (M7) - Toner Supply Clutch (C) - Main Drive Unit - Developing Assembly (C) - Laser Scanner Unit (CK) - Hopper Unit (C) - Drum Unit (C) - Small-diameter Coaxial Cable - C Pre-Exposure Led PCB (Front) - C Pre-Exposure Led PCB (Rear) - Harness between the Feed/Drum Driver PCB (UN2/J231) and Developing Motor (C) (M7/J6012) - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Harness connecting the Front Driver PCB (UN3/J306), Drawer Unit (J755), and Process Unit Relay PCB (UN20-J607) - Harness connecting the Process Unit Relay PCB (UN20/J609), Relay Connector (J5095/5P), and ATR Sensor (C) (TS7/J6118) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (C) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts..

E021-0400-05	Developing Motor error
Detection Description	Lock signal error of the Developing Motor (Bk) was detected consecutively.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Feed/Drum Driver PCB (UN2/J231) and Developing Motor (Bk) (M8/J6011) - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Developing Motor (Bk) - Toner Supply Clutch (Bk) - Main Drive Unit - Developing Assembly (Bk) - Hopper Unit (Bk) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the load of the Developing Assembly (Bk). (Turn the Gear by hand and replace the Developing Assembly (Bk) if the load is heavy.) 2. Check the operation sound of the Motor. <ul style="list-style-type: none"> - SITUATION> Parts Check> Machine> Motor> Developing Motor (Bk) (M8) <p>If the operation sound cannot be confirmed, check the Harness between the Feed/Drum Driver PCB (UN2/J231) and Developing Motor (Bk) (M8/J6011) and the Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) (pinched wire, connector disconnection, or open circuit).</p> 3. Check/replace the Toner Supply Clutch (Bk). 4. Check/replace the Main Drive Unit. 5. Replace the Feed/Drum Driver PCB. 6. Replace the Relay PCB (UN5). 7. Check/replace the Hopper Unit (Bk).

E021-0420-05	Developing Screw rotation detection error
Detection Description	The difference between the maximum and the minimum of sampling values detected by the ATR Sensor (Bk) in the Developing Assembly (Bk) was 12 or less during rotation of the Developing Screw.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB_ZA - Front Driver PCB - Relay PCB - Primary Transfer/Bk Developing Charging High-Voltage PCB - Developing Motor (Bk) - Toner Supply Clutch (Bk) - Main Drive Unit - Developing Assembly (Bk) - Laser Scanner Unit (CK) - Hopper Unit (Bk) - Drum Unit (Bk) - Small-diameter Coaxial Cable - Bk Pre-Exposure Led PCB (Front) - Bk Pre-Exposure Led PCB (Rear) - Main Controller PCB - Harness between the Feed/Drum Driver PCB (UN2/J231) and Developing Motor (Bk) (M8/J6011) - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Harness connecting the Front Driver PCB (UN3/J306), Drawer Unit (J755), and Process Unit Relay PCB (UN20-J607) - Harness connecting the Process Unit Relay PCB (UN20/J609), Relay Connector (J5096/5P), and ATR Sensor (Bk) (TS8/J6120) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <p>a) If condensation is suspected</p> <ol style="list-style-type: none"> 1. Replace the Developing Assembly (Bk) after confirming that condensation has been completely eliminated. <p>b) If there is no chance of condensation, execute the following procedure while checking whether the machine recovers from the error.</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts..

E025-0100-05	Toner Bottle Motor error
Detection Description	Rotation error of the Toner Bottle Motor (Y) was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB (UN5) - Hopper Unit (Y) - Bottle Drive Unit (Y) - Toner Bottle (Y) - Harness between the Feed/Drum Driver PCB (J211) and Bottle Motor (Y) (M9) - Harness between the Toner Sensor Relay PCB (J406) and Feed/Drum Driver PCB (J201) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Remove the Toner Bottle (Y) from the machine. 2. With the lead edge of the Toner Bottle (Y) fixed, turn the handle and check whether the rotation load is heavy. 3. With the Outlet of the Toner Bottle (Y) facing up, shake it vertically about 10 times. 4. Reinsert the Toner Bottle (Y) into the machine and check whether the error is cleared. 5. Check the installation status and existence/replace the Bottle Rotation Sensor (PS60) of the Hopper Unit (Y). 6. Check the installation status and existence of the Sensor Flag, which blocks light from the Bottle Rotation Sensor (PS60) of the Hopper Unit (Y). 7. Replace the Toner Bottle (Y). 8. Replace the Hopper Unit (Y). 9. Replace the Bottle Drive Unit (Y). 10. Check the Harness between the Feed/Drum Driver PCB (J211) and Bottle Motor (Y). 11. Check the harness between the Feed/Drum Driver PCB (J232, J212) and Toner Sensor Relay PCB (Y) (UN39/J1400). 12. Replace the Feed/Drum Driver PCB . 13. Replace the DC Controller PCB . 14. Replace the Power Supply Unit .
E025-0150-05	Hopper Motor error
Detection Description	The ATR Sensor (Y) consecutively detected that the output (Vsig_ind) was 40 or less.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Hopper Unit (Y) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the Harness connecting the Process Unit Relay PCB (UN20/J609), Relay Connector (J5093/5P, J5094/5P, J5095/5P, J5096/5P), and ATR Sensor (Y) (TS5/J6114). 2. Replace the Hopper Unit (Y).
E025-0151-05	Hopper Motor error
Detection Description	The ATR Sensor (Y) consecutively detected that the output (Vsig_ind) was 231 or higher.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Developing Assembly (Y) - Hopper Unit (Y) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check/replace the harness/cable and connector related to the Developing Assembly (Y). 2. Replace the Developing Assembly (Y). 3. Check the Harness connecting the Process Unit Relay PCB (UN20/J609), Relay Connector (J5093/5P), and ATR Sensor (Y) (TS5/J6114). 4. Replace the Hopper Unit (Y).

E025-01C0-05	Toner Bottle Inner Door open detection error
Detection Description	Open state of the Bottle Replacement Inner Door was not detected when removing the Toner Bottle (Y).
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Hopper Unit (Y) - Bottle Base Assembly (CL) - Bottle Front Inner Door Unit - Push Switch - Inner Door Spring - Inner Door Latch - Inner Door Latch Spring - Inner Door Latch Release Lever - Latch Release Lever Spring <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Confirm that the Toner Bottle Replacement Door can perform opening and closing operations normally (check for damage to the Inner Door and sliding of the Shaft, etc.). 2. If opening and closing operations cannot be performed for the Toner Bottle Replacement Door, check the installation status of the parts related to the Bottle Front Inner Door Unit. 3. Confirm that the IO information switches after manually opening and closing the Toner Bottle Replacement Door. <ul style="list-style-type: none"> - Service Mode> SITUATION> Sensor Check> Machine> Switches> Bottle Cover Open/Close Switch (Y) (SW11) 4. Turn the Bottle Drive Input Gear counterclockwise with the Delivery Tray removed and confirm that the Inner Door opens (open the Toner Replacement Cover in advance). 5. Turn the Bottle Drive Input Gear counterclockwise with the Delivery Tray removed and confirm that the IO information switches. <ul style="list-style-type: none"> - Service Mode> SITUATION> Sensor Check> Machine> Other Sensors> Bottle Position Sensor (Y) (PS60) 6. Check the Harness between the Front Driver PCB(UN3/J302) and Bottle Position Sensor (Y) (PS60) (pinched wire, connector disconnection, or open circuit). <p>NOTE</p> <p>After resolving the error, use the following item in [Settings/Registration] to perform toner replacement and confirm that the replacement procedure can be performed normally.</p> <ul style="list-style-type: none"> - Adjustment/Maintenance> Maintenance> Replace Specified Toner

E025-0200-05	Toner Bottle Motor error
Detection Description	Rotation error of the Toner Bottle Motor (M) was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB (UN5) - Hopper Unit (M) - Bottle Drive Unit (M) - Toner Bottle (M) - Harness between the Feed/Drum Driver PCB (J211) and Bottle Motor (M) (M10) - Harness between the Relay PCB (J406) and Feed/Drum Driver PCB (J201) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Remove the Toner Bottle from the machine. 2. With the lead edge of the Toner Bottle fixed, turn the handle and check whether the rotation load is heavy. 3. With the Outlet of the Toner Bottle facing up, shake it vertically about 10 times. 4. Reinsert the Toner Bottle into the machine and check whether the error is cleared. 5. Check the installation status and existence/replace the Bottle Rotation Sensor (M) (PS61) of the Hopper Unit. 6. Check the installation status and existence of the Sensor Flag , which blocks light from the Bottle Rotation Sensor (M) (PS61) of the Hopper Unit. 7. Replace the Toner Bottle. 8. Replace the Hopper Unit. 9. Replace the Bottle Drive Unit. 10. Check the harness between the Feed/Drum Driver PCB (J211) and Bottle Motor (M). 11. Check the harness between the Feed/Drum Driver PCB (J232, J212) and Toner Sensor Relay PCB (M) (UN40/J1410). 12. Replace the Feed/Drum Driver PCB . 13. Replace the DC Controller PCB . 14. Replace the Power Supply Unit .
E025-0250-05	Hopper Motor error
Detection Description	The ATR Sensor (M) consecutively detected that the output (Vsig_ind) was 40 or less.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Hopper Unit (M) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Replace the Hopper Unit (M). 2. Check the Harness connecting the Process Unit Relay PCB (UN20/J609), Relay Connector (J5094/5P), and ATR Sensor (M) (TS6/J6116).
E025-0251-05	Hopper Motor error
Detection Description	The ATR Sensor (M) consecutively detected that the output (Vsig_ind) was 231 or higher.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Developing Assembly (M) - Hopper Unit (M) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check/replace the harness/cable and connector related to the Developing Assembly (M). 2. Replace the Developing Assembly (M). 3. Replace the Hopper Unit (M). 4. Check the Harness connecting the Process Unit Relay PCB (UN20/J609), Relay Connector (J5094/5P), and ATR Sensor (M) (TS6/J6116).

E025-02C0-05	Toner Bottle Inner Door open detection error
Detection Description	Open state of the Bottle Replacement Inner Door was not detected when removing the Toner Bottle (M).
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Hopper Unit (M) - Bottle Base Assembly (CL) - Bottle Front Inner Door Unit - Push Switch - Inner Door Spring - Inner Door Latch - Inner Door Latch Spring - Inner Door Latch Release Lever - Latch Release Lever Spring <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Confirm that the Toner Bottle Replacement Door can perform opening and closing operations normally (check for damage to the Inner Door and sliding of the Shaft, etc.). 2. If opening and closing operations cannot be performed for the Toner Bottle Replacement Door, check the installation status of the parts related to the Bottle Front Inner Door Unit. 3. Confirm that the IO information switches after manually opening and closing the Toner Bottle Replacement Door. <ul style="list-style-type: none"> - Service Mode> SITUATION> Sensor Check> Machine> Switches> Bottle Cover Open/Close Switch (M) (SW12) 4. Turn the Bottle Drive Input Gear counterclockwise with the Delivery Tray removed and confirm that the Inner Door opens (open the Toner Replacement Cover in advance). 5. Turn the Bottle Drive Input Gear counterclockwise with the Delivery Tray removed and confirm that the IO information switches. <ul style="list-style-type: none"> - Service Mode> SITUATION> Sensor Check> Machine> Other Sensors> Bottle Position Sensor (M) (PS61) 6. Check the Harness between the Front Driver PCB(UN3/J302) and Bottle Position Sensor (M) (PS61) (pinched wire, connector disconnection, or open circuit). <p>NOTE</p> <p>After resolving the error, use the following item in [Settings/Registration] to perform toner replacement and confirm that the replacement procedure can be performed normally.</p> <ul style="list-style-type: none"> - Adjustment/Maintenance> Maintenance> Replace Specified Toner

E025-0300-05	Toner Bottle Motor error
Detection Description	Rotation error of the Toner Bottle Motor (C) was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB (UN5) - Hopper Unit (C) - Bottle Drive Unit (C) - Toner Bottle (C) - Harness between the Feed/Drum Driver PCB (J232, J212) and Toner Sensor Relay PCB (C) (UN41/J1420) - Harness between the Relay PCB (J406) and Feed/Drum Driver PCB (J201) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Remove the Toner Bottle from the machine. 2. With the lead edge of the Toner Bottle fixed, turn the handle and check whether the rotation load is heavy. 3. With the Outlet of the Toner Bottle facing up, shake it vertically about 10 times. 4. Reinsert the Toner Bottle into the machine and check whether the error is cleared. 5. Check the installation status and existence/replace the Bottle Rotation Sensor (C) (PS62) of the Hopper Unit. 6. Check the installation status and existence of the Sensor Flag , which blocks light from the Bottle Rotation Sensor (C) (PS62) of the Hopper Unit. 7. Replace the Toner Bottle. 8. Replace the Hopper Unit. 9. Replace the Bottle Drive Unit. 10. Check the Harness between the Feed/Drum Driver PCB (J211) and Bottle Motor (C). 11. Check the Harness between the Feed/Drum Driver PCB (J232, J212) and Toner Sensor Relay PCB (C) (UN41/J1420). 12. Replace the Feed/Drum Driver PCB . 13. Replace the DC Controller PCB . 14. Replace the Power Supply Unit .
E025-0350-05	Hopper Motor error
Detection Description	The ATR Sensor (C) consecutively detected that the output (Vsig_ind) was 40 or less.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Hopper Unit (C) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Replace the Hopper Unit (C). 2. Check the Harness connecting the Process Unit Relay PCB (UN20/J609), Relay Connector (J5095/5P), and ATR Sensor (C) (TS7/J6118).
E025-0351-05	Hopper Motor error
Detection Description	The ATR Sensor (C) consecutively detected that the output (Vsig_ind) was 231 or higher.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Developing Assembly (C) - Hopper Unit (C) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check/replace the harness/cable and connector related to the Developing Assembly (C). 2. Replace the Developing Assembly (C). 3. Replace the Hopper Unit (C). 4. Check the Harness connecting the Process Unit Relay PCB (UN20/J609), Relay Connector (J5095/5P), and ATR Sensor (C) (TS7/J6118).

E025-03C0-05	Toner Bottle Inner Door open detection error
Detection Description	Open state of the Bottle Replacement Inner Door was not detected when removing the Toner Bottle (C).
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Hopper Unit (C) - Bottle Base Assembly (CL) - Bottle Front Inner Door Unit - Push Switch - Inner Door Spring - Inner Door Latch - Inner Door Latch Spring - Inner Door Latch Release Lever - Latch Release Lever Spring <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Confirm that the Toner Bottle Replacement Door can perform opening and closing operations normally (check for damage to the Inner Door and sliding of the Shaft, etc.). 2. If opening and closing operations cannot be performed for the Toner Bottle Replacement Door, check the installation status of the parts related to the Bottle Front Inner Door Unit. 3. Confirm that the IO information switches after manually opening and closing the Toner Bottle Replacement Door. <ul style="list-style-type: none"> - Service Mode> SITUATION> Sensor Check> Machine> Switches> Bottle Cover Open/Close Switch (C) (SW13) 4. Turn the Bottle Drive Input Gear counterclockwise with the Delivery Tray removed and confirm that the Inner Door opens (open the Toner Replacement Cover in advance). 5. Turn the Bottle Drive Input Gear counterclockwise with the Delivery Tray removed and confirm that the IO information switches. <ul style="list-style-type: none"> - Service Mode> SITUATION> Sensor Check> Machine> Other Sensors> Bottle Position Sensor (C) (PS62) 6. Check the Harness between the Front Driver PCB(UN3/J302) and Bottle Position Sensor (C) (PS62) (pinched wire, connector disconnection, or open circuit). <p>NOTE</p> <p>After resolving the error, use the following item in [Settings/Registration] to perform toner replacement and confirm that the replacement procedure can be performed normally.</p> <ul style="list-style-type: none"> - Adjustment/Maintenance> Maintenance> Replace Specified Toner

E025-0400-05	Toner Bottle Motor error
Detection Description	Rotation error of the Toner Bottle Motor (Bk) was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB (UN5) - Hopper Unit (Bk) - Bottle Drive Unit (Bk) - Toner Bottle (Bk) - Harness between the Feed/Drum Driver PCB (J232, J212) and Toner Sensor Relay PCB (Bk) (UN42, J1430) - Harness between the Relay PCB (J406) and Feed/Drum Driver PCB (J201) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Remove the Toner Bottle from the machine. 2. With the lead edge of the Toner Bottle fixed, turn the handle and check whether the rotation load is heavy. 3. With the Outlet of the Toner Bottle facing up, shake it vertically about 10 times. 4. Reinsert the Toner Bottle into the machine and check whether the error is cleared. 5. Check the installation status and existence/replace the Bottle Rotation Sensor (Bk) (PS63) of the Hopper Unit. 6. Check the installation status and existence of the Sensor Flag , which blocks light from the Bottle Rotation Sensor (Bk) (PS63) of the Hopper Unit. 7. Replace the Toner Bottle. 8. Replace the Hopper Unit. 9. Replace the Bottle Drive Unit. 10. Check the Harness between the Feed/Drum Driver PCB (J211) and Bottle Motor (Bk). 11. Check the Harness between the Feed/Drum Driver PCB (J232, J212) and Toner Sensor Relay PCB (Bk) (UN42/J1430). 12. Replace the Feed/Drum Driver PCB . 13. Replace the DC Controller PCB . 14. Replace the Power Supply Unit .
E025-0450-05	Hopper Motor error
Detection Description	The ATR Sensor (Bk) consecutively detected that the output (Vsig_ind) was 40 or less.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Hopper Unit (Bk) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Replace the Hopper Unit (Bk). 2. Check the Harness connecting the Process Unit Relay PCB (UN20/J609), Relay Connector (J5096/5P), and ATR Sensor (Bk) (TS8/J6120).
E025-0451-05	Hopper Motor error
Detection Description	The ATR Sensor (Bk) consecutively detected that the output (Vsig_ind) was 231 or higher.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Developing Assembly (Bk) - Hopper Unit (Bk) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check/replace the harness/cable and connector related to the Developing Assembly (Bk). 2. Replace the Developing Assembly (Bk). 3. Replace the Hopper Unit (Bk). 4. Check the Harness connecting the Process Unit Relay PCB (UN20/J609), Relay Connector (J5096/5p), and ATR Sensor (Bk) (TS8/J6120).

E025-04C0-05	Toner Bottle Inner Door open detection error
Detection Description	Open state of the Bottle Replacement Inner Door was not detected when removing the Toner Bottle (Bk).
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Hopper Unit (Bk) - Bottle Base Assembly (Bk) - Bottle Front Inner Door Unit - Push Switch - Inner Door Spring - Inner Door Latch - Inner Door Latch Spring - Inner Door Latch Release Lever - Latch Release Lever Spring <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Confirm that the Toner Bottle Replacement Door can perform opening and closing operations normally (check for damage to the Inner Door and sliding of the Shaft, etc.). 2. If opening and closing operations cannot be performed for the Toner Bottle Replacement Door, check the installation status of the parts related to the Bottle Front Inner Door Unit. 3. Confirm that the IO information switches after manually opening and closing the Toner Bottle Replacement Door. <ul style="list-style-type: none"> - Service Mode> SITUATION> Sensor Check> Machine> Switches> Bottle Cover Open/Close Switch (Bk) (SW14) 4. Turn the Bottle Drive Input Gear counterclockwise with the Delivery Tray removed and confirm that the Inner Door opens (open the Toner Replacement Cover in advance). 5. Turn the Bottle Drive Input Gear counterclockwise with the Delivery Tray removed and confirm that the IO information switches. <ul style="list-style-type: none"> - Service Mode> SITUATION> Sensor Check> Machine> Other Sensors> Bottle Position Sensor (Bk) (PS63) 6. Check the Harness between the Front Driver PCB(UN3/J302) and Bottle Position Sensor (Bk) (PS63) (pinched wire, connector disconnection, or open circuit). <p>NOTE</p> <p>After resolving the error, use the following item in [Settings/Registration] to perform toner replacement and confirm that the replacement procedure can be performed normally.</p> <ul style="list-style-type: none"> - Adjustment/Maintenance> Maintenance> Replace Specified Toner

E027-0100-05	Error in supply with Y Developing Assembly
Detection Description	The Toner Supply Screw Rotation Sensor detected rotation error within the specified period of time.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Toner Supply Clutch (Y) (CL2) - Main Drive Unit - Developing Assembly (Y) - Hopper Unit (Y) - Toner Supply Sensor (Y) (PS1) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the installation status and cleanliness of the Toner Supply Sensor (Y) (PS1) on the Hopper Unit. Clean the Sensor if it is dirty. 2. Replace the Toner Supply Sensor (Y) (PS1). 3. Turn the Coupling of the Hopper Unit and check whether the rotation load is heavy and whether the Rotation Detection Flag operates. 4. Replace the Hopper Unit. 5. Check the load of the Developing Assembly (turn the Gear by hand). Replace the Developing Assembly if the load is heavy. 6. Check the operation sound of the Motor. <ul style="list-style-type: none"> - SITUATION> Parts Check> Machine> Motor> Developing Motor (Y) (M5) If the operation sound cannot be confirmed, check the Harness between the Feed/Drum Driver PCB (UN2/J231) and Developing Motor (Y) (M5/J6015) (pinched wire, connector disconnection, or open circuit). 7. Check/replace the Toner Supply Clutch (Y) (CL2). 8. Check/replace the Main Drive Unit. 9. Check the Harness between the Feed/Drum Driver PCB and Toner Sensor Relay PCB (Y) (UN39/J1400). 10. Check the Harness between the Toner Sensor Relay PCB (Y) (UN39/J1400) and Toner Supply Sensor (Y) (PS1). 11. Replace the Feed/Drum Driver PCB . 12. Replace the DC Controller PCB . 13. Replace the Power Supply Unit .
E027-0101-05	Toner Supply Clutch error (Y)
Detection Description	Electmag. CL error (Y)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Toner Supply Clutch (Y) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Remove the Main Drive Unit from the machine. 2. Turn the Developing Coupling of the Main Drive Unit about five revolutions (in any direction), and check whether the New Supply Drive Gear also continues to rotate. 3. If it does, replace the Toner Supply Clutch (Y) . <p>If it does not, replace the Feed/Drum Driver PCB .</p>

E027-0200-05	Error in supply with M Developing Assembly
Detection Description	The Toner Supply Screw Rotation Sensor detected rotation error within the specified period of time.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Toner Supply Clutch (M) - Main Drive Unit - Developing Assembly (M) - Hopper Unit (M) - Toner Supply Sensor (M) (PS2) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the installation status and cleanliness of the Toner Supply Sensor (M) (PS2) on the Hopper Unit. Clean the Sensor if it is dirty. 2. Replace the Toner Supply Sensor (M) (PS2). 3. Turn the Coupling of the Hopper Unit and check whether the rotation load is heavy and whether the Rotation Detection Flag operates. 4. Replace the Hopper Unit. 5. Check the load of the Developing Assembly (turn the Gear by hand). Replace the Developing Assembly if the load is heavy. 6. Check the operation sound of the Motor. <ul style="list-style-type: none"> - SITUATION> Parts Check> Machine> Motor> Developing Motor (M) (M6) If the operation sound cannot be confirmed, check the Harness between the Feed/Drum Driver PCB (UN2/J231) and Developing Motor (M) (M6/J6015) (pinched wire, connector disconnection, or open circuit). 7. Check/replace the Toner Supply Clutch (M). 8. Check/replace the Main Drive Unit. 9. Check the Harness between the Feed/Drum Driver PCB and Toner Sensor Relay PCB (M) (UN40/J1410). 10. Check the Harness between the Toner Sensor Relay PCB (M) (UN40/J1410) and Toner Supply Sensor (M) (PS2). 11. Replace the Feed/Drum Driver PCB . 12. Replace the DC Controller PCB . 13. Replace the Power Supply Unit .
E027-0201-05	Toner Supply Clutch error (M)
Detection Description	Electmag. CL error (M)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Toner Supply Clutch (M) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Remove the Main Drive Unit from the machine. 2. Turn the Developing Coupling of the Main Drive Unit about five revolutions (in any direction), and check whether the New Supply Drive Gear also continues to rotate. 3. If it does, replace the Toner Supply Clutch (M) . <p>If it does not, replace the Feed/Drum Driver PCB .</p>

E027-0300-05	Error in supply with C Developing Assembly
Detection Description	The Toner Supply Screw Rotation Sensor detected rotation error within the specified period of time.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Toner Supply Clutch (C) - Main Drive Unit - Developing Assembly (C) - Hopper Unit (C) - Toner Supply Sensor (C) (PS3) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the installation status and cleanliness of the Toner Supply Sensor (C) (PS3) on the Hopper Unit. Clean the Sensor if it is dirty. 2. Replace the Toner Supply Sensor (C) (PS3). 3. Turn the Coupling of the Hopper Unit and check whether the rotation load is heavy and whether the Rotation Detection Flag operates. 4. Replace the Hopper Unit. 5. Check the load of the Developing Assembly (turn the Gear by hand). Replace the Developing Assembly if the load is heavy. 6. Check the operation sound of the Motor. <ul style="list-style-type: none"> - SITUATION> Parts Check> Machine> Motor> Developing Motor (C) (M7) If the operation sound cannot be confirmed, check the Harness between the Feed/Drum Driver PCB (UN2/J231) and Developing Motor (C) (M7/J6015) (pinched wire, connector disconnection, or open circuit). 7. Check/replace the Toner Supply Clutch (C). 8. Check/replace the Main Drive Unit. 9. Check the Harness between the Feed/Drum Driver PCB and Toner Sensor Relay PCB (C) (UN41/J1420). 10. Check the Harness between the Toner Sensor Relay PCB (C) (UN41/J1420) and Toner Supply Sensor (C) (PS3). 11. Replace the Feed/Drum Driver PCB . 12. Replace the DC Controller PCB . 13. Replace the Power Supply Unit .
E027-0301-05	Toner Supply Clutch error (C)
Detection Description	Electmag. CL error (C)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Toner Supply Clutch (C) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Remove the Main Drive Unit from the machine. 2. Turn the Developing Coupling of the Main Drive Unit about five revolutions (in any direction), and check whether the New Supply Drive Gear also continues to rotate. 3. If it does, replace the Toner Supply Clutch (C) . <p>If it does not, replace the Feed/Drum Driver PCB .</p>

E027-0400-05	Error in supply with K Developing Assembly
Detection Description	The Toner Supply Screw Rotation Sensor detected rotation error within the specified period of time.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - DC Controller PCB - Feed/Drum Driver PCB - Relay PCB - Toner Supply Clutch (Bk) - Main Drive Unit - Developing Assembly (Bk) - Hopper Unit (Bk) - Toner Supply Sensor (Bk) (PS4) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the installation status and cleanliness of the Toner Supply Sensor (Bk) (PS4) on the Hopper Unit. Clean the Sensor if it is dirty. 2. Replace the Toner Supply Sensor (Bk) (PS4). 3. Turn the Coupling of the Hopper Unit and check whether the rotation load is heavy and whether the Rotation Detection Flag operates. 4. Replace the Hopper Unit. 5. Check the load of the Developing Assembly (turn the Gear by hand). Replace the Developing Assembly if the load is heavy. 6. Check the operation sound of the Motor. <ul style="list-style-type: none"> - SITUATION> Parts Check> Machine> Motors> Developing Motor (C) (M7) If the operation sound cannot be confirmed, check the Harness between the Feed/Drum Driver PCB (UN2/J231) and Developing Motor (Bk) (M8/J6015) (pinched wire, connector disconnection, or open circuit). 7. Check/replace the Toner Supply Clutch (Bk). 8. Check/replace the Main Drive Unit. 9. Check the Harness between the Feed/Drum Driver PCB and Toner Sensor Relay PCB (Bk) (UN42, J1430). 10. Check the Harness between the Toner Sensor Relay PCB (C) (UN42/J1430) and Toner Supply Sensor (Bk) (PS4). 11. Replace the Feed/Drum Driver PCB . 12. Replace the DC Controller PCB . 13. Replace the Power Supply Unit .
E027-0401-05	Toner Supply Clutch error (Bk)
Detection Description	Electmag. CL error (K)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Toner Supply Clutch (Bk) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Remove the Main Drive Unit from the machine. 2. Turn the Developing Coupling of the Main Drive Unit about five revolutions (in any direction), and check whether the New Supply Drive Gear also continues to rotate. 3. If it does, replace the Toner Supply Clutch (Bk) . <p>If it does not, replace the Feed/Drum Driver PCB .</p>

E029-1000-05	Patch Sensor error
Detection Description	The Patch Sensor detected light intensity error of the LED for B&W printing at initialization of the Developing Assembly.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - DC Controller PCB - Front Driver PCB - Power Supply Unit - Relay PCB - Registration Patch Sensor Unit - ITB - Pattern Read Shutter Drive Unit - Harness between the DC Power Supply (UN9/J871) and Relay PCB (UN5/J405) - Harness between the Relay PCB (UN5/J402) and Front Driver PCB (UN3/J304) - Harness between the DC Controller PCB (UN1/J125) and Registration Patch Sensor Unit (UN49/J1253) - Harness between the Front Driver PCB (UN3/J305) and Pattern Read Shutter Drive Unit (SL1) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Clean the Sensor Window of the Registration Patch Sensor Unit. 2. Check/replace the related harness/cable, connector and parts. <p>[Reference]</p> <ul style="list-style-type: none"> - Method for checking whether the error is cleared: Turn the main power OFF and then ON again and confirm that alarm code 10-0006 does not occur during warm-up rotation. *However, warm-up rotation is not executed after turning the main power OFF and then ON if quick startup is enabled. In this case, turn the main power OFF and then ON after disabling quick startup. - Settings/Registration> Preferences> Timer/Energy Settings> Quick Startup Settings for Main Power <p>Error E029 will occur again if Developing Assembly initialization is executed without clearing the alarm.</p> <ul style="list-style-type: none"> - If E029 is displayed during Developing Assembly initialization, Developing Assembly initialization has not been completed correctly. After the error is cleared, make sure to perform Developing Assembly initialization for the color replaced. - When the Registration Patch Sensor is replaced, make sure to perform the procedure below to initialize the Developing Assembly. <ol style="list-style-type: none"> 1. Collect the target of the Registration Patch Detection Sensor. - Service Mode> (Lv.2) COPIER> FUNCTION> INSTALL> PATCH-S 2. Perform Developing Assembly initialization. - Service Mode> (Lv.1) COPIER> FUNCTION> INSTALL> INISET-Y/M/C/K 3. Execute auto gradation adjustment (full adjustment). Settings/Registration> Adjustment/Maintenance> Maintenance> Image Adjustment> Auto Adjust Gradation> Full Adjustment

E029-1001-05	Patch Sensor error
Detection Description	The Patch Sensor detected light intensity error of the LED for color printing at initialization of the Developing Assembly.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - DC Controller PCB - Front Driver PCB - Relay PCB - Power Supply Unit - Registration Patch Sensor Unit - Pattern Read Shutter Drive Unit - Harness between the Power Supply Unit (UN9/J871) and Relay PCB (UN5/J405) - Harness between the Relay PCB (UN5/J402) and Front Driver PCB (UN3/J304) - Harness between the Relay PCB (UN5/J402) and Feed Drum Driver PCB (UN2/J201) - Harness between the DC Controller PCB (UN1/J125) and Registration Patch Sensor Unit (UN49/J1253) - Harness between the Front Driver PCB (UN3/J305) and Pattern Read Shutter Drive Unit (SL1) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ul style="list-style-type: none"> - When one failure location code is displayed 1. Clean the Sensor Window of the Registration Patch Sensor Unit. 2. If the Shutter surface is significantly dirty, check the standards sticker on the rear of the Shutter. 3. Operate the link mechanism from the Registration Shutter Solenoid (SL1) to the Shutter and check whether there is a problem. 4. Check/replace the related harness/cable, connector and parts. <p>[Reference]</p> <ul style="list-style-type: none"> - Method for checking whether the error is cleared: <p>Turn the main power OFF and then ON again and confirm that alarm code 10-0006 does not occur during warm-up rotation.</p> <p>*However, warm-up rotation is not executed after turning the main power OFF and then ON if quick startup is enabled.</p> <p>In this case, turn the main power OFF and then ON after disabling quick startup.</p> <ul style="list-style-type: none"> - Settings/Registration> Preferences> Timer/Energy Settings> Quick Startup Settings for Main Power <p>Error E029 will occur again if Developing Assembly initialization is executed without clearing the alarm.</p> <ul style="list-style-type: none"> - If E029 is displayed during Developing Assembly initialization, Developing Assembly initialization has not been completed correctly. After the error is cleared, make sure to perform Developing Assembly initialization for the color replaced. - When the Registration Patch Sensor is replaced, make sure to perform the procedure below to initialize the Developing Assembly. 1. Collect the target of the Registration Patch Detection Sensor. - Service Mode> (Lv.2) COPIER> FUNCTION> INSTALL> PATCH-S 2. Perform Developing Assembly initialization. - Service Mode> (Lv.1) COPIER> FUNCTION> INSTALL> INISET-Y/M/C/K 3. Execute auto gradation adjustment (full adjustment). <p>Settings/Registration> Adjustment/Maintenance> Maintenance> Image Adjustment> Auto Adjust Gradation> Full Adjustment</p>

E029-6001-05	Registration Shutter Solenoid error
Detection Description	Light intensity lower limit error was detected during light intensity correction of the regular reflection LED.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the DC Controller PCB (UN1/J125) and the Patch Sensor (UN49/J1253) - Harness between the Front Driver PCB (UN3/J305) and the Registration Shutter Solenoid (SL1/J6064) - Patch Sensor (UN49) - Registration Shutter Solenoid (SL1) - DC Controller PCB (UN1) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the DC Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMRES</p>
E064-1100-05	Y output error in AC charging
Detection Description	The AC current at Y was detected to be out of the normal range during the output of charging high voltage.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - Relay PCB - DC Controller PCB - Charging High-Voltage PCB (YMC) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the Harness between the DC Controller PCB and Charging High-Voltage PCB (YMC), and fix it if it is disconnected or not fully connected. 2. Replace the Charging High-Voltage PCB (YMC). 3. Replace the DC Controller PCB. 4. Replace the Relay PCB. 5. Replace the Power Supply Unit.
E064-1101-05	Y output error in DC charging
Detection Description	The DC current at Y was detected to be out of the normal range during the output of charging high voltage.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - Relay PCB - DC Controller PCB - Charging High-Voltage PCB (YMC) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the Harness between the DC Controller PCB and Charging High-Voltage PCB (YMC), and fix it if it is disconnected or not fully connected. 2. Replace the Charging High-Voltage PCB (YMC). 3. Replace the DC Controller PCB. 4. Replace the Relay PCB. 5. Replace the Power Supply Unit.

E064-1103-05	Y/M/C output error in DC developing
Detection Description	Y/M/C output error in DC developing
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - Relay PCB - DC Controller PCB - Developing High-Voltage PCB (YMC) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the Harness between the DC Controller PCB and Developing High-Voltage PCB (YMC), and fix it if it is disconnected or not fully connected. 2. Replace the Developing High-Voltage PCB (YMC). 3. Replace the DC Controller PCB. 4. Replace the Relay PCB. 5. Replace the Power Supply Unit.
E064-1200-05	M output error in AC charging
Detection Description	The AC current at M was detected to be out of the normal range during the output of charging high voltage.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - Relay PCB - DC Controller PCB - Charging High-Voltage PCB (YMC) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the Harness between the DC Controller PCB and Charging High-Voltage PCB (YMC), and fix it if it is disconnected or not fully connected. 2. Replace the Charging High-Voltage PCB (YMC). 3. Replace the DC Controller PCB. 4. Replace the Relay PCB. 5. Replace the Power Supply Unit.
E064-1201-05	M output error in DC charging
Detection Description	The DC current at M was detected to be out of the normal range during the output of charging high voltage.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - Relay PCB - DC Controller PCB - Charging High-Voltage PCB (YMC) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the Harness between the DC Controller PCB and Charging High-Voltage PCB (YMC), and fix it if it is disconnected or not fully connected. 2. Replace the Charging High-Voltage PCB (YMC). 3. Replace the DC Controller PCB. 4. Replace the Relay PCB. 5. Replace the Power Supply Unit.

E064-1300-05	C output error in AC charging
Detection Description	The AC current at C was detected to be out of the normal range during the output of charging high voltage.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - Relay PCB - DC Controller PCB - Charging High-Voltage PCB (YMC) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the Harness between the DC Controller PCB and Charging High-Voltage PCB (YMC), and fix it if it is disconnected or not fully connected. 2. Replace the Charging High-Voltage PCB (YMC). 3. Replace the DC Controller PCB. 4. Replace the Relay PCB. 5. Replace the Power Supply Unit.
E064-1301-05	C output error in DC charging
Detection Description	The DC current at C was detected to be out of the normal range during the output of charging high voltage.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - Relay PCB - DC Controller PCB - Charging High-Voltage PCB (YMC) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the Harness between the DC Controller PCB and Charging High-Voltage PCB (YMC), and fix it if it is disconnected or not fully connected. 2. Replace the Charging High-Voltage PCB (YMC). 3. Replace the DC Controller PCB. 4. Replace the Relay PCB. 5. Replace the Power Supply Unit.
E064-1400-05	K output error in AC charging
Detection Description	The AC current at Bk was detected to be out of the normal range during the output of charging high voltage.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - Relay PCB - DC Controller PCB - Primary Transfer/Bk Developing Charging High-Voltage PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the Harness between the DC Controller PCB and Primary Transfer/Bk Developing Charging High-Voltage PCB, and fix it if it is disconnected or not fully connected. 2. Replace the Primary Transfer/Bk Developing Charging High-Voltage PCB. 3. Replace the DC Controller PCB. 4. Replace the Relay PCB. 5. Replace the Power Supply Unit.

E064-1401-05	K output error in DC charging
Detection Description	The DC current at Bk was detected to be out of the normal range during the output of charging high voltage.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - Relay PCB - DC Controller PCB - Primary Transfer/Bk Developing Charging High-Voltage PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the Harness between the DC Controller PCB and Primary Transfer/Bk Developing Charging High-Voltage PCB, and fix it if it is disconnected or not fully connected. 2. Replace the Primary Transfer/Bk Developing Charging High-Voltage PCB. 3. Replace the DC Controller PCB. 4. Replace the Relay PCB. 5. Replace the Power Supply Unit.
E064-1403-05	K output error in DC developing
Detection Description	The DC voltage at Bk was detected to be out of the normal range during the output of developing high voltage.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Power Supply Unit - Relay PCB - DC Controller PCB - Primary Transfer/Bk Developing Charging High-Voltage PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the Harness between the DC Controller PCB and Primary Transfer/Bk Developing Charging High-Voltage PCB, and fix it if it is disconnected or not fully connected. 2. Replace the Primary Transfer/Bk Developing Charging High-Voltage PCB. 3. Replace the DC Controller PCB. 4. Replace the Relay PCB. 5. Replace the Power Supply Unit.
E074-0001-05	ITB HP time out error
Detection Description	The Primary Transfer Detachment Sensor 2 detected home position error during disengagement operation of the ITB.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the Front Driver PCB (UN3/J307), ITB Displacement Sensor PCB (UN60/J700, J701), and Primary Transfer Detachment Sensor (Bk) (PS23/J7011) - Harness between the Front Driver PCB (UN3/J303) and Primary Transfer Roller Disengagement Motor (M15/J3032) - Harness between the Front Driver PCB (UN3/J304) and Relay PCB (UN5/J402) - Power Supply Unit - DC Controller PCB (UN1) - Relay PCB (UN5) - Front Driver PCB (UN3) - Primary Transfer Roller Disengagement Motor (M15) - Primary Transfer Detachment Sensor (Bk) (PS23) - DESORPTION DRIVE ASSEMBLY - ITB Displacement Sensor PCB (UN60) - ITB Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check for the following connector disconnections and open circuits between connectors. <ul style="list-style-type: none"> - Harness connecting the Front Driver PCB (UN3/J307), ITB Displacement Sensor PCB (UN60/J700, J701), and Primary Transfer Detachment Sensor (Bk) (PS23/J7011) - Harness between the Front Driver PCB (UN3/J303) and Primary Transfer Roller Disengagement Motor (M15/J3032) - Harness between the Front Driver PCB (UN3/J304) and Relay PCB (UN5/J402) 2. Check/replace the related harness/cable, connector and parts. <p>[Reference]</p> <ul style="list-style-type: none"> - Execute COPIER> FUNCTION> MISC-P> ITB-INIT regardless of whether the ITB Unit has been replaced.

E074-0002-05	ITB HP time out error
Detection Description	The Primary Transfer Detachment Sensor 1 detected home position error during engagement operation of the ITB.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the Front Driver PCB (UN3/J307), ITB Displacement Sensor PCB (UN60/J700, J701), and Primary Transfer Detachment Sensor (CL) (PS23/J7011) - Harness between the Front Driver PCB (UN3/J303) and Primary Transfer Roller Disengagement Motor (M15/J3032) - Harness between the Front Driver PCB (UN3/J304) and Relay PCB (UN5/J402) - Power Supply Unit - DC Controller PCB (UN1) - Relay PCB (UN5) - Front Driver PCB (UN3) - Primary Transfer Roller Disengagement Motor (M15) - Primary Transfer Detachment Sensor (CL) (PS22) - DESORPTION DRIVE ASSEMBLY - ITB Displacement Sensor PCB (UN60) - ITB Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check for the following connector disconnections and open circuits between connectors. <ul style="list-style-type: none"> - Harness connecting the Front Driver PCB (UN3/J307), ITB Displacement Sensor PCB (UN60/J700, J701), and Primary Transfer Detachment Sensor (CL) (PS22/J7010) - Harness between the Front Driver PCB (UN3/J303) and Primary Transfer Roller Disengagement Motor (M15/J3032) - Harness between the Front Driver PCB (UN3/J304) and Relay PCB (UN5/J402) 2. Check/replace the related harness/cable, connector and parts. <p>[Reference]</p> <ul style="list-style-type: none"> - Execute COPIER> FUNCTION> MISC-P> ITB-INIT regardless of whether the ITB Unit has been replaced.
E074-0003-05	Primary Transfer Detachment Sensor error
Detection Description	Both the Primary Transfer Detachment Sensor 1 and 2 detected home position at the same time during engagement/disengagement operation of the ITB.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the Front Driver PCB (UN3/J307), ITB Displacement Sensor PCB (UN60/J700, J701), and Primary Transfer Detachment Sensor (CL), Primary Transfer Detachment Sensor (Bk) (PS22/J7010, PS23/J7011) - DC Controller PCB (UN1) - Primary Transfer Detachment Sensor (Bk) (PS23) - Primary Transfer Detachment Sensor (CL) (PS22) - ITB Displacement Sensor PCB (UN60) - ITB Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check for the following connector disconnections and open circuits between connectors. <ul style="list-style-type: none"> - Harness connecting the Front Driver PCB (UN3/J307), ITB Displacement Sensor PCB (UN60/J700, J701), and Primary Transfer Detachment Sensor (CL), Primary Transfer Detachment Sensor (Bk) (PS22/J7010, PS23/J7011) 2. Check/replace the related harness/cable, connector and parts. <p>[Reference]</p> <ul style="list-style-type: none"> - Execute COPIER> FUNCTION> MISC-P> ITB-INIT regardless of whether the ITB Unit has been replaced.

E075-0002-05	ITB displacement control error
Detection Description	The ITB Steering Sensor did not detect change in home position signal.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the Front Driver PCB (UN3/J307), ITB Displacement Sensor PCB (UN60/J700, J701), and ITB Steering Sensor (PS24/J7013) - Harness between the Front Driver PCB (UN3/J303) and ITB Displacement Control Motor (M14/J3031) - Harness between the Relay PCB (UN5/J402) and Front Driver PCB (UN3/J304) - Power Supply Unit - DC Controller PCB (UN1) - Relay PCB (UN5) - Front Driver PCB (UN3) - ITB Displacement Control Motor (M14) - ITB Steering Sensor (PS24) - Steering Drive Unit - ITB Displacement Sensor PCB (UN60) - ITB Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check for the following connector disconnections and open circuits between connectors. <ul style="list-style-type: none"> - Harness connecting the Front Driver PCB (UN3/J307), ITB Displacement Sensor PCB (UN60/J700, J701), and ITB Steering Sensor (PS24/J7013) - Harness between the Front Driver PCB (UN3/J303) and ITB Displacement Control Motor (M14/J3031) - Harness between the Relay PCB (UN5/J402) and Front Driver PCB (UN3/J304) 2. Check/replace the related harness/cable, connector and parts. <p>[Reference]</p> <ul style="list-style-type: none"> - Execute COPIER> FUNCTION> MISC-P> ITB-INIT regardless of whether the ITB Unit has been replaced.

E075-0003-05	ITB displacement control error
Detection Description	The ITB Steering Sensor detected that the ITB was at full displacement position at the rear.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the Front Driver PCB (UN3/J303), ITB Displacement Sensor PCB (UN60/J700, J701), and ITB Steering Sensor (PS24/J7013) - Harness between the Front Driver PCB (UN3/J303) and ITB Displacement Control Motor (M14/J3031) - Intermediate Transfer Belt - ITB Unit - ITB Displacement Sensor PCB (UN60) - Secondary Transfer Inner Roller - Front Driver PCB (UN3) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Confirm that there is no problem with the Intermediate Transfer Belt displacement position, belt damage, or transfer cleaner. 2. Perform the following remedy according to the status of the Intermediate Transfer Belt. <ol style="list-style-type: none"> a. If the ITB is not in the full displacement position <ol style="list-style-type: none"> a-1. Check for the following connector disconnections and open circuits between connectors. <ul style="list-style-type: none"> - Harness connecting the Front Driver PCB (UN3/J307), ITB Displacement Sensor PCB (UN60/J700, J701), and ITB Steering Sensor (PS24/J7013) - Harness between the Front Driver PCB (UN3/J303) and ITB Displacement Control Motor (M14/J3031) a-2. Replace the ITB Displacement Sensor PCB (UN60). a-3. Replace the Front Driver PCB (UN3). a-4. Replace the ITB Unit. b. If the ITB is in the full displacement position <ol style="list-style-type: none"> b-1. Correct the Intermediate Transfer Belt displacement. b-2. Execute COPIER> FUNCTION> MISC-P> ITB-INIT. b-3. Confirm that COPIER> DISPLAY> MISC> ITB-POS/ITB-POS2 is within the correct range. If not, perform Intermediate Transfer Belt alignment adjustment. b-4. If the error is not resolved by performing ITB alignment adjustment, replace the Secondary Transfer Inner Roller. b-5. If ITB-POS/ITB-POS2 does not improve or the error recurs, replace the Intermediate Transfer Belt Unit. <p>[Reference]</p> <ul style="list-style-type: none"> - Execute COPIER> FUNCTION> MISC-P> ITB-INIT regardless of whether the ITB Unit has been replaced. - If the surface of the Steering Roller or inner surface of the Intermediate Transfer Belt is dirty due to toner, etc., this error may be able to be cleared by cleaning the roller and replacing the Intermediate Transfer Belt.
E075-0004-05	ITB displacement control error
Detection Description	ITB displacement position could not be detected due to error in the Displacement Control Sensor.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Front Driver PCB (UN3/J303) and ITB Displacement Sensor PCB (UN60/J700) - DC Controller PCB (UN1) - Front Driver PCB (UN3) - ITB Displacement Sensor PCB (UN60) - ITB Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check for the following connector disconnections and open circuits between connectors. <ul style="list-style-type: none"> - Harness between the Front Driver PCB (UN3/J303) and ITB Displacement Sensor PCB (UN60/J700) 2. Check/replace the related harness/cable, connector and parts. <p>[Reference]</p> <ul style="list-style-type: none"> - Execute COPIER> FUNCTION> MISC-P> ITB-INIT regardless of whether the ITB Unit has been replaced.

E075-0005-05	ITB displacement control error
Detection Description	The ITB Steering Sensor detected home position error.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the Front Driver PCB (UN3/J307), ITB Displacement Sensor PCB (UN60/J700, J701), and ITB Steering Sensor (PS24/J7013) - Harness between the Front Driver PCB (UN3/J303) and ITB Displacement Control Motor (M14/J3031) - Harness between the Relay PCB (UN5/J402) and Front Driver PCB (UN3/J304) - Power Supply Unit - DC Controller PCB (UN1) - Relay PCB (UN5) - Front Driver PCB (UN3) - ITB Displacement Control Motor (M14) - ITB Steering Sensor (PS24) - Steering Drive Unit - ITB Displacement Sensor PCB (UN60) - ITB Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check for the following connector disconnections and open circuits between connectors. <ul style="list-style-type: none"> - Harness connecting the Front Driver PCB (UN3/J307), ITB Displacement Sensor PCB (UN60/J700, J701), and ITB Steering Sensor (PS24/J7013) - Harness between the Front Driver PCB (UN3/J303) and ITB Displacement Control Motor (M14/J3031) - Harness between the Relay PCB (UN5/J402) and Front Driver PCB (UN3/J304) 2. Check/replace the related harness/cable, connector and parts. <p>[Reference]</p> <ul style="list-style-type: none"> - Execute COPIER> FUNCTION> MISC-P> ITB-INIT regardless of whether the ITB Unit has been replaced.
E075-0006-05	ITB displacement control error
Detection Description	The Displacement Control Sensor did not detect equilibrium position although a specified period of time had passed.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Front Driver PCB (UN3/J303) and ITB Displacement Sensor PCB (UN60/J700) - ITB Displacement Sensor PCB (UN60) - Secondary Transfer Inner Roller - ITB Unit <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check for the following connector disconnections and open circuits between connectors. <ul style="list-style-type: none"> - Harness between the Front Driver PCB (UN3/J303) and ITB Displacement Sensor PCB (UN60/J700) 2. Execute COPIER> FUNCTION> MISC-P> ITB-INIT. 3. Confirm that COPIER> DISPLAY> MISC> ITB-POS/ITB-POS2 is within the correct range. If not, perform Intermediate Transfer Belt alignment adjustment. 4. If the error is not resolved by performing ITB alignment adjustment, replace the Secondary Transfer Inner Roller. 5. If the ITB-POS/ITB-POS2 value does not change to a proper value or the error recurs, replace the Intermediate Transfer Belt Unit. <p>[Reference]</p> <ul style="list-style-type: none"> - Execute COPIER> FUNCTION> MISC-P> ITB-INIT regardless of whether the ITB Unit has been replaced. - If the surface of the Steering Roller or inner surface of the Intermediate Transfer Belt is dirty due to toner, etc., this error may be able to be cleared by cleaning the roller and replacing the Intermediate Transfer Belt.

E075-0103-05	ITB displacement control error
Detection Description	The ITB Steering Sensor detected that the ITB was at full displacement position at the front.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness connecting the Front Driver PCB (UN3/J303), ITB Displacement Sensor PCB (UN60/J700, J701), and ITB Steering Sensor (PS24/J7013) - Harness between the Front Driver PCB (UN3/J303) and ITB Displacement Control Motor (M14/J3031) - Intermediate Transfer Belt - ITB Unit - ITB Displacement Sensor PCB (UN60) - Secondary Transfer Inner Roller - Front Driver PCB (UN3) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. In addition to the Intermediate Transfer Belt displacement position, confirm that there is no problem with belt damage or transfer cleaner. 2. Perform the following remedy according to the status of the Intermediate Transfer Belt. <ol style="list-style-type: none"> a. If the ITB is not in the full displacement position <ol style="list-style-type: none"> a-1. Check for the following connector disconnections and open circuits between connectors. <ul style="list-style-type: none"> - Harness connecting the Front Driver PCB (UN3/J307), ITB Displacement Sensor PCB (UN60/J700, J701), and ITB Steering Sensor (PS24/J7013) - Harness between the Front Driver PCB (UN3/J303) and ITB Displacement Control Motor (M14/J3031) a-2. Replace the ITB Displacement Sensor PCB (UN60). a-3. Replace the Front Driver PCB (UN3). a-4. Replace the ITB Unit. b. If the ITB is in the full displacement position <ol style="list-style-type: none"> b-1. Correct the Intermediate Transfer Belt displacement. b-2. Execute COPIER> FUNCTION> MISC-P> ITB-INIT. b-3. Confirm that COPIER> DISPLAY> MISC> ITB-POS/ITB-POS2 is within the correct range. If not, perform Intermediate Transfer Belt alignment adjustment. b-4. If the error is not resolved by performing ITB alignment adjustment, replace the Secondary Transfer Inner Roller. b-5. If the ITB-POS/ITB-POS2 value does not change to a proper value or the error recurs, replace the Intermediate Transfer Belt Unit. <p>[Reference]</p> <ul style="list-style-type: none"> - Execute COPIER> FUNCTION> MISC-P> ITB-INIT regardless of whether the ITB Unit has been replaced. - If the surface of the Steering Roller or inner surface of the Intermediate Transfer Belt is dirty due to toner, etc., this error may be able to be cleared by cleaning the roller and replacing the Intermediate Transfer Belt.
E100-0100-05	Laser Scanner error
Detection Description	BD signal was not detected although a specified period of time had passed during operation of the Laser Scanner (Y, M).
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the DC Controller PCB (UN1/J171, J176, J177) and the Laser Driver PCB (Y) (UN13/J851) of the Laser Scanner Unit (YM) - Laser Scanner Unit (YM) - Engine Controller - DC Controller PCB - Board-to-Board Connector between the Riser PCB and Main Controller PCB - Riser PCB - Main Controller PCB - Power Supply Unit - Relay PCB <p>[Remedy]</p> <ul style="list-style-type: none"> - Check/replace the related harness/cable, connector and parts.

E100-0101-05	Laser Scanner Unit 1 signal error
Detection Description	The Laser Scanner Unit failed to detect the signal. (Y, M)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the DC Controller PCB (UN1/J171, J176, J177) and Laser Driver PCB (Y) (UN13/J851) - Harness between the DC Controller PCB (UN1/J100, J101) and Riser PCB (J10, J11) - Board-to-Board Connector between the Riser PCB and Main Controller PCB - Laser Scanner Unit (YM) - DC Controller PCB - Riser PCB - Main Controller PCB <p>[Remedy]</p> <ul style="list-style-type: none"> - Check/replace the related harness/cable, connector and parts.
E100-0102-05	Laser Scanner error
Detection Description	Correction in timing of laser exposure to the Polygon Mirror (Y, M) was not completed within the specified period of time.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Small-diameter Coaxial Cable and the Laser Driver PCB (Y) (UN13/J851) of the Laser Scanner Unit (YM) - Board-to-Board Connector between the Riser PCB and Main Controller PCB - Small-diameter Coaxial Cable - Laser Scanner Unit (YM) - Riser PCB - Main Controller PCB - DC Controller PCB <p>[Remedy]</p> <ul style="list-style-type: none"> - Check/replace the related harness/cable, connector and parts.
E100-0300-05	Laser Scanner error
Detection Description	BD signal was not detected although a specified period of time had passed during operation of the Laser Scanner (C, Bk).
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the DC Controller PCB (UN1/J171, J176, J177) and the Laser Driver PCB (C) (UN15/J862) of the Laser Scanner Unit (YM) - Laser Scanner Unit (CK) - Engine Controller - DC Controller PCB - Board-to-Board Connector between the Riser PCB and Main Controller PCB - Riser PCB - Main Controller PCB - Power Supply Unit - Relay PCB <p>[Remedy]</p> <ul style="list-style-type: none"> - Check/replace the related harness/cable, connector and parts.
E100-0301-05	Laser Scanner Unit 2 signal error
Detection Description	The Laser Scanner Unit failed to detect the signal. (C, Bk)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the DC Controller PCB (UN1/J171, J176, J177) and Laser Driver PCB (C) (UN15/J862) - Harness between the DC Controller PCB (UN1/J100, J101) and Riser PCB (J10, J11) - Board-to-Board Connector between the Riser PCB and Main Controller PCB - Laser Scanner Unit (CK) <p>[Remedy]</p> <ul style="list-style-type: none"> - Check/replace the related harness/cable, connector and parts.

E100-0302-05	Laser Scanner error
Detection Description	Correction in timing of laser exposure to the Polygon Mirror (C, Bk) was not completed within the specified period of time.
Remedy	[Related parts] - Small-diameter Coaxial Cable - Laser Scanner Unit (CK) - Riser PCB - Main Controller PCB - DC Controller PCB [Remedy] - Check/replace the related harness/cable, connector and parts.
E100-0F00-05	Laser Scanner signal error
Detection Description	Signal error was detected at or after startup. (Y, M, C, Bk)
Remedy	[Related parts] - Harness between the DC Controller PCB (UN1/J171, J176, J177) and Laser Driver PCB (Y) (UN13/J851) - Harness between the DC Controller PCB (UN1/J171, J176, J177) and Laser Driver PCB (C) (UN15/J862) - Board-to-Board Connector between the Riser PCB and Main Controller PCB - Laser Scanner Unit (YM) - Laser Scanner Unit (CK) - DC Controller PCB - Riser PCB - Main Controller PCB - Power Supply Unit - Relay PCB [Remedy] - Check/replace the related harness/cable, connector and parts.
E100-0F01-05	Laser Scanner signal error
Detection Description	The Laser Scanner Unit failed to detect the signal. (Y, M, C, Bk)
Remedy	[Related parts] - Harness between the DC Controller PCB (UN1/J171, J176, J177) and Laser Driver PCB (C) (UN15/J862) - Harness between the DC Controller PCB (UN1/J100, J101) and Riser PCB (J10, J11) - Board-to-Board Connector between the Riser PCB and Main Controller PCB - Main Controller PCB - DC Controller PCB - Riser PCB [Remedy] - Check/replace the related harness/cable, connector and parts.
E100-B100-05	Laser Scanner Unit (YM) Paper surface detection Error
Detection Description	Paper surface detection of the Laser Scanner Unit (YM) is not cynchronizing BD cycle.
Remedy	[Remedy] Turn OFF and then ON the main power.
E100-B300-05	Laser Scanner Unit (CK) Paper surface detection Error
Detection Description	Paper surface detection of the Laser Scanner Unit (CK) is not cynchronizing BD cycle.
Remedy	[Remedy] Turn OFF and then ON the main power.
E102-0101-05	EEPROM error
Detection Description	An error in check sum of EEPROM on the Laser Scanner was detected (Y, M).
Remedy	[Related parts] - Laser Scanner Unit (YM) [Remedy] - Check/replace the related harness/cable, connector and parts.

E102-0301-05	EEPROM error
Detection Description	An error in check sum of EEPROM on the Laser Scanner was detected (C, Bk).
Remedy	[Related parts] - Laser Scanner Unit (CK) [Remedy] - Check/replace the related harness/cable, connector and parts.
E102-0F00-05	Laser Scanner Unit EEPROM error
Detection Description	An EEPROM error in the Laser Scanner Unit (for YM/CBk)
Remedy	[Related parts] - Laser Scanner Unit (YM) - Laser Scanner Unit (CK) [Remedy] - Check/replace the related harness/cable, connector and parts.
E102-0F01-05	EEPROM error
Detection Description	A check sum error of EEPROM on the Laser Scanner Unit was detected. (Y, M, C, Bk)
Remedy	[Related parts] - Laser Scanner Unit 1/2 [Remedy] Check/replace the related harness/cable, connector and parts.
E110-0101-05	Laser Scanner Motor error
Detection Description	An error in the operation of the Laser Scanner Motor(YM) was detected.
Remedy	[Related parts] - Harness of the Laser Driver PCB (M) (UN12/J820) - Laser Scanner Unit (YM) - DC Controller PCB - Relay PCB [Remedy] - Check/replace the related harness/cable, connector and parts.
E110-0110-05	Laser Scanner Motor error
Detection Description	Rotation of the Laser Scanner Motor(YM) could not be detected.
Remedy	[Related parts] - Harness of the Laser Driver PCB (M) (UN12/J820) of the Laser Scanner Unit (YM) - Laser Scanner Unit (YM) - DC Controller PCB - Power Supply Unit - Relay PCB [Remedy] - Check/replace the related harness/cable, connector and parts.
E110-0303-05	Laser Scanner Motor error
Detection Description	An error in the operation of the Laser Scanner Motor(CK) was detected.
Remedy	[Related parts] - Harness of the Laser Driver PCB (Bk) (UN14/J821) - Laser Scanner Unit (CK) - DC Controller PCB - Relay PCB [Remedy] - Check/replace the related harness/cable, connector and parts.
E110-0330-05	Laser Scanner Motor error
Detection Description	Rotation of the Laser Scanner Motor(CK) could not be detected.
Remedy	[Related parts] - Harness of the Laser Driver PCB (Bk) (UN14/J821) of the Laser Scanner Unit (CK) - Laser Scanner Unit (CK) - DC Controller PCB [Remedy] - Check/replace the related harness/cable, connector and parts.

E110-0F0F-05	Laser Scanner Motor error
Detection Description	An error in the operation of the Laser Scanner Motor(YM/CK) was detected.
Remedy	[Related parts] - Harness of the Laser Driver PCB (M) (UN12/J820) - Harness of the Laser Driver PCB (Bk) (UN14/J821) - Laser Scanner Unit (YM) - Laser Scanner Unit (CK) - DC Controller PCB - Relay PCB [Remedy] - Check/replace the related harness/cable, connector and parts.
E110-0F13-05	Laser Scanner Motor error
Detection Description	Rotation of the Laser Scanner Motor (YM) could not be detected and an error in the operation of the Laser Scanner Motor (CK) was detected.
Remedy	[Related parts] - Harness of the Laser Driver PCB (M) (UN12/J820) - Harness of the Laser Driver PCB (Bk) (UN14/J821) - Laser Scanner Unit (YM) - Laser Scanner Unit (CK) - DC Controller PCB - Relay PCB [Remedy] - Check/replace the related harness/cable, connector and parts.
E110-0F31-05	Laser Scanner Motor error
Detection Description	Rotation of the Laser Scanner Motor (CK) could not be detected and an error in the operation of the Laser Scanner Motor (YM) was detected.
Remedy	[Related parts] - Harness of the Laser Driver PCB (M) (UN12/J820) - Harness of the Laser Driver PCB (Bk) (UN14/J821) - Laser Scanner Unit (YM) - Laser Scanner Unit (CK) - DC Controller PCB - Relay PCB [Remedy] - Check/replace the related harness/cable, connector and parts.
E110-0FF0-05	Laser Scanner Motor error
Detection Description	Rotation of the Laser Scanner Motor(YM/CK) could not be detected.
Remedy	[Related parts] - Relay PCB - DC Controller PCB - Laser Scanner Unit (YM) - Laser Scanner Unit (CK) [Remedy] - Check/replace the related harness/cable, connector and parts.
E112-0000-05	Laser Shutter Error
Detection Description	Home position of the Laser Shutter was not detected.
Remedy	[Related parts] - Laser Shutter Motor (M28) - Laser Shutter Sensor (PS29) - Relay PCB (UN5) [Remedy] - Check/replace the related harness/cable, connector and parts.

E112-0001-05	Laser Shutter Error
Detection Description	Home position was not detected although the Laser Shutter was closed.
Remedy	[Related parts] - Laser Shutter Motor (M28) - Laser Shutter Sensor (PS29) - Relay PCB (UN5) [Remedy] - Check/replace the related harness/cable, connector and parts.
E112-0002-05	Laser Shutter Error
Detection Description	Change in home position was not detected while the Laser Shutter was open.
Remedy	[Related parts] - Laser Shutter Motor (M28) - Laser Shutter Sensor (PS29) - Relay PCB (UN5) [Remedy] - Check/replace the related harness/cable, connector and parts.
E197-0000-05	Serial communication error
Detection Description	A communication error between the DC Controller PCB and the Laser Scanner (Y, M) was detected.
Remedy	[Related parts] - Harness between the DC Controller PCB (J176) and the Laser Scanner Unit (YM) (J800) - DC Controller PCB - Laser Scanner Unit (YM) [Remedy] - Check/replace the related harness/cable, connector and parts.
E197-0100-05	Serial communication error
Detection Description	A communication error between the DC Controller PCB and the Laser Scanner (C, Bk) was detected.
Remedy	[Related parts] - Harness between the DC Controller PCB (J176) and the Laser Scanner Unit (CK) (J801) - DC Controller PCB - Laser Scanner Unit (CK) [Remedy] - Check/replace the related harness/cable, connector and parts.
E197-2000-05	Serial communication error
Detection Description	A communication error of ASIC (HV_KONA) in the DC Controller PCB was detected.
Remedy	[Related parts] - DC Controller PCB [Remedy] - Check/replace the related harness/cable, connector and parts.
E197-2001-05	Serial communication error
Detection Description	A communication error between the DC Controller PCB and the Side Paper Deck was detected.
Remedy	[Related parts] - Harness between the DC Controller PCB (J175) and the Paper Deck Controller (J357) - DC Controller PCB - Paper Deck Driver PCB [Remedy] - Check/replace the related harness/cable, connector and parts.

E197-2002-05	Serial communication error
Detection Description	A communication error between the DC Controller PCB and the Front Driver PCB was detected.
Remedy	[Related parts] <ul style="list-style-type: none"> - Harness between the DC Controller PCB (J111) and Front Driver PCB (J301) - DC Controller PCB - Front Driver PCB [Remedy] <ul style="list-style-type: none"> - Check/replace the related harness/cable, connector and parts.
E197-2003-05	Serial communication error
Detection Description	A communication error between the DC Controller PCB and the Main Controller PCB was detected.
Remedy	[Related parts] <ul style="list-style-type: none"> - Harness between the DC Controller PCB (J100) and Riser PCB (J10) - Board-to-Board Connector between the Riser PCB and Main Controller PCB - DC Controller PCB - Main Controller PCB [Remedy] <ul style="list-style-type: none"> - Check/replace the related harness/cable, connector and parts.
E197-2004-05	Serial communication error
Detection Description	A communication error between the DC Controller PCB and the Feed/Drum Driver PCB was detected.
Remedy	[Related parts] <ul style="list-style-type: none"> - Harness between the DC Controller PCB (J170) and Feed/Drum Driver PCB (J202) - Harness between the DC Controller PCB (J172) and Feed/Drum Driver PCB (J203) - Replace the Feed/Drum Driver PCB . - Replace the DC Controller PCB . [Remedy] <ul style="list-style-type: none"> - Check/replace the related harness/cable, connector and parts.
E197-2005-05	Serial communication error
Detection Description	A communication error between the DC Controller PCB and the Feed/Drum Driver PCB was detected.
Remedy	[Related parts] <ul style="list-style-type: none"> - Harness between the DC Controller PCB (J170) and Feed/Drum Driver PCB (J202) - Harness between the DC Controller PCB (J172) and Feed/Drum Driver PCB (J203) - DC Controller PCB - Feed/Drum Driver PCB [Remedy] <ul style="list-style-type: none"> - Check/replace the related harness/cable, connector and parts.
E199-0101-05	Error in high voltage sequence (Y)
Detection Description	Error for collecting log.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> SELF-CHK" to "1", it is handled as an error.
E199-0102-05	Error in high voltage sequence (M)
Detection Description	Error for collecting log.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> SELF-CHK" to "1", it is handled as an error.
E199-0103-05	Error in high voltage sequence (C)
Detection Description	Error for collecting log.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> SELF-CHK" to "1", it is handled as an error.

E199-0104-05	Error in high voltage sequence (K)
Detection Description	Error for collecting log.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> SELF-CHK" to "1", it is handled as an error.
E199-0201-05	Error in high voltage sequence (Y)
Detection Description	Error for collecting log.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> SELF-CHK" to "1", it is handled as an error.
E199-0202-05	Error in high voltage sequence (M)
Detection Description	Error for collecting log.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> SELF-CHK" to "1", it is handled as an error.
E199-0203-05	Error in high voltage sequence (C)
Detection Description	Error for collecting log.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> SELF-CHK" to "1", it is handled as an error.
E199-0204-05	Error in high voltage sequence (K)
Detection Description	Error for collecting log.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> SELF-CHK" to "1", it is handled as an error.
E199-0301-05	Error in high voltage sequence (Y)
Detection Description	Error for collecting log.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> SELF-CHK" to "1", it is handled as an error.
E199-0302-05	Error in high voltage sequence (M)
Detection Description	Error for collecting log.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> SELF-CHK" to "1", it is handled as an error.
E199-0303-05	Error in high voltage sequence (C)
Detection Description	Error for collecting log.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> SELF-CHK" to "1", it is handled as an error.
E199-0304-05	Error in high voltage sequence (K)
Detection Description	Error for collecting log.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> SELF-CHK" to "1", it is handled as an error.

E202-0001-04	Reader Scanner Unit HP error
Detection Description	The Reader Scanner Unit could not detect the home position when starting scanning operation.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO2/J102) and the Scanner Unit HP Sensor (PS_A1/J5002) - Harness between the Reader Controller PCB (UN_BO2/J108) and the Scanner Motor (STM1/J5015) - Scanner Unit HP Sensor (PS_A1) - Scanner Motor (STM1) - Reader Controller PCB (UN_BO2) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E202-0002-04	Reader Scanner Unit HP error
Detection Description	The Reader Scanner Unit could not detect the home position when completing scanning operation.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO2/J102) and the Scanner Unit HP Sensor (PS_A1/J5002) - Harness between the Reader Controller PCB (UN_BO2/J108) and the Scanner Motor (STM1/J5015) - Scanner Unit HP Sensor (PS_A1) - Scanner Motor (STM1) - Reader Controller PCB (UN_BO2) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E202-0003-04	Reader Scanner Unit HP error
Detection Description	An error in the Reader Scanner Unit position was detected when reading of a job was started.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO2/J102) and the Scanner Unit HP Sensor (PS_A1/J5002) - Harness between the Reader Controller PCB (UN_BO2/J108) and the Scanner Motor (STM1/J5015) - Scanner Unit HP Sensor (PS_A1) - Scanner Motor (STM1) - Reader Controller PCB (UN_BO2) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES

E202-0004-04	Reader Scanner Unit HP error
Detection Description	Home position error of the Reader Scanner Unit was detected when reading of a job was completed.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO2/J102) and the Scanner Unit HP Sensor (PS_A1/J5002) - Harness between the Reader Controller PCB (UN_BO2/J108) and the Scanner Motor (STM1/J5015) - Scanner Unit HP Sensor (PS_A1) - Scanner Motor (STM1) - Reader Controller PCB (UN_BO2) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E202-0010-04	Reader Scanner Unit HP error
Detection Description	The Reader Scanner Unit could not detect the home position when completing scanning operation.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO2/J102) and the Scanner Unit HP Sensor (PS_A1/J5002) - Harness between the Reader Controller PCB (UN_BO2/J108) and the Scanner Motor (STM1/J5015) - Scanner Unit HP Sensor (PS_A1) - Scanner Motor (STM1) - Reader Controller PCB (UN_BO2) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E202-0101-04	DADF Scanner Unit HP error
Detection Description	The DADF Scanner Unit could not detect the home position when starting scanning operation.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the ADF Driver PCB (UN_BO1/J408) and the Glass Movement HP Sensor (PS_A9/J462) - Glass Movement HP Sensor (PS_A9) - Glass Movement Gear 18T - ADF Driver PCB (UN_BO1) <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E202-0102-04	DADF Scanner Unit HP error
Detection Description	The DADF Scanner Unit could not detect the home position when completing scanning operation.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the ADF Driver PCB (UN_BO1/J408) and the Glass Movement HP Sensor (PS_A9/J462) - Glass Movement HP Sensor (PS_A9) - Glass Movement Gear 18T - ADF Driver PCB (UN_BO1) <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E227-0001-04	Power supply error
Detection Description	The Reader Controller PCB did not detect 24 V when the main power was turned ON.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flat Cable between the Reader Controller PCB (UN_BO1/J104) and the DADF Driver PCB (PCB1/J402) - Harness between the Reader Controller PCB (UN_BO1/J4) and the Relay PCB (UN5/J407) - Harness between the Relay PCB (UN5/J405) and the Power Supply PCB (UN9/J871) - Reader Controller PCB (UN_BO1) - DADF Driver PCB (PCB1) - Relay PCB (UN5) - Power Supply Unit <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference]</p> <ul style="list-style-type: none"> - When an error is detected, conduction of 24 V is stopped. At power check, check if 24 V is conducted or rated voltage is output by repeating power cycling of the machine. - Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E227-0101-04	Power supply error
Detection Description	The DADF Driver PCB did not detect 24 V when the main power was turned ON.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flat Cable between the Reader Controller PCB (UN_BO1/J104) and the DADF Driver PCB (PCB1/J402) - Harness between the Reader Controller PCB (UN_BO1/J4) and the Relay PCB (UN5/J407) - Harness between the Relay PCB (UN5/J405) and the Power Supply PCB (UN9/J871) - Reader Controller PCB (UN_BO1) - DADF Driver PCB (PCB1) - Relay PCB (UN5) - Power Supply Unit <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference]</p> <ul style="list-style-type: none"> - When an error is detected, conduction of 24 V is stopped. At power check, check if 24 V is conducted or rated voltage is output by repeating power cycling of the machine. - Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E240-0002-05	Controller communication error
Detection Description	A communication error occurred between the Main Controller PCB and the DC Controller PCB.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the DC Controller PCB (UN1/J100 and J101) and the Riser PCB (J2 and J10) - Connector between the Main Controller PCB and the Riser PCB - Riser PCB - Main Controller PCB - DC Controller PCB (UN1) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the DC Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMRES</p>
E246-0001-00	System error
Detection Description	System error
Remedy	Contact the service company office
E246-0002-00	System error
Detection Description	System error
Remedy	Contact to the sales company.

E246-0003-00	System error
Detection Description	System error
Remedy	Contact to the sales company.
E246-0005-00	System error
Detection Description	System error
Remedy	Contact to the sales company.
E247-0001-00	System error
Detection Description	System error
Remedy	Contact the service company office
E247-0002-00	System error
Detection Description	System error
Remedy	Contact to the sales company.
E247-0003-00	System error
Detection Description	System error
Remedy	Contact to the sales company.
E247-0004-00	System error
Detection Description	System error
Remedy	Contact to the sales company.
E248-0001-04	EEPROM error
Detection Description	The Main Controller PCB detected reading error of the Reader backup value in the Reader Controller PCB.
Remedy	[Remedy] Check/replace the Reader Controller PCB (PCB1). [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E248-0002-04	EEPROM error
Detection Description	The Main Controller PCB failed writing of the Reader backup value in the Reader Controller PCB.
Remedy	[Remedy] Check/replace the Reader Controller PCB (PCB1). [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E248-0003-04	EEPROM error
Detection Description	The Main Controller PCB detected an error at inspection after completion of writing of the Reader backup value in the Reader Controller PCB.
Remedy	[Remedy] Check/replace the Reader Controller PCB (PCB1). [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E248-0010-04	EEPROM error
Detection Description	The Main Controller PCB detected reading error of the Reader backup value in the Reader Controller PCB.
Remedy	[Remedy] Check/replace the Reader Controller PCB (PCB1). [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES

E260-0001-05	Power supply error
Detection Description	An error in 3.3 VA power supply was detected at startup.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the DC Controller PCB (J174) and Environment Sensor (UN50-J810) - Harness between the DC Controller PCB (J120) and Primary Transfer/Bk Developing Charging High-Voltage PCB (J622) - Harness between the DC Controller PCB (J122) and Secondary Transfer High-Voltage PCB (UN18/J657) - Harness between the DC Controller PCB (J123) and Charging High-Voltage PCB (YMC) (J641) - Harness between the DC Controller PCB (J124) and Developing High-Voltage PCB (YMC) (J611) - DC Controller PCB <p>[Remedy]</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.
E260-0002-05	Power supply error
Detection Description	An error in 5 V power supply was detected at startup of CPU.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - 5V Power Supply Sensor Harness - Harness between the Feed/Drum Driver PCB (J214) and Drawer Unit (J5012) - Harness between the Feed/Drum Driver PCB (J216) and the 3 Way Unit (J5032) - Harness between the Feed/Drum Driver PCB (J219) and Right Door Relay PCB (UN61/J1100) - Harness between the DC Controller PCB (J111) and Front Driver PCB (J301) - Harness between the DC Controller PCB (J170) and Feed/Drum Driver PCB (J202) - Harness between the DC Controller PCB (J110) and Finisher (J1103) - DC Controller PCB <p>[Remedy]</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.
E260-0003-05	Power Supply error
Detection Description	An error in 12V power supply was detected at startup.
Remedy	<p>[Related parts]</p> <p>DC Controller PCB</p> <p>[Remedy]</p> <p>Replace the DC Controller PCB .</p>
E280-0001-04	Communication error
Detection Description	Communication between the Reader Controller PCB and the Reader Scanner Unit was not completed within the specified period of time.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flat Cable between the Reader Scanner Unit (UN_BO2/J1201) and the Reader Controller PCB (UN_BO1/J106) - Reader Scanner Unit (UN_BO2) - Reader Controller PCB (UN_BO1) <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES

E280-0002-04	Communication error
Detection Description	Disconnection of FFC between the Reader Controller PCB and the Reader Scanner Unit was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flat Cable between the Reader Scanner Unit (UN_BO2/J1201) and the Reader Controller PCB (UN_BO1/J106) - Reader Scanner Unit (UN_BO2) - Reader Controller PCB (UN_BO1) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E280-0101-04	Communication error
Detection Description	Communication between the Reader Controller PCB and the DADF Scanner Unit was not completed within the specified period of time.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flat Cable between the Reader Controller PCB (UN_BO1/J4) and the DADF Driver PCB (PCB1/J401) - DADF Driver PCB (PCB1) - Reader Controller PCB (UN_BO1) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E280-0102-04	Communication error
Detection Description	Disconnection of FFC between the Reader Controller PCB and the DADF Scanner Unit was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flat Cable between the Reader Controller PCB (UN_BO1/J105) and the Scanner Unit PCB (Paper Back) (UN_BO021/J101) - Reader Controller PCB (UN_BO1) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E302-0001-04	Error in paper front white shading
Detection Description	An access error to the paper front white shading RAM or a paper front white shading value out of specification was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flat Cable between the Reader Scanner Unit (UN_BO2/J1201) and the Reader Controller PCB (UN_BO1/J106) - Reader Scanner Unit (UN_BO2) - Reader Controller PCB (UN_BO1) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES

E302-0002-04	Error in paper front black shading
Detection Description	An access error to the paper front black shading RAM or a paper front black shading value out of specification was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flat Cable between the Reader Scanner Unit (UN_BO2/J1201) and the Reader Controller PCB (UN_BO1/J106) - Reader Scanner Unit (UN_BO2) - Reader Controller PCB (UN_BO1) <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E302-0003-04	Error in paper front white shading
Detection Description	The paper front white shading value gradually became out of the specified range.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flat Cable between the Reader Scanner Unit (J1201) and the Reader Controller PCB (J106) - Reader Scanner Unit - Reader Controller PCB <p>[Remedy]</p> <ol style="list-style-type: none"> 1. Clean the LED, mirror, and Stream Reading Glass of Scanner Unit. 2. Check/replace the related harness/cable, connector and parts. <p>[Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E302-0101-04	Error in paper back white shading
Detection Description	An access error to the paper back white shading RAM or a paper back white shading value out of specification was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J4) and the DADF Driver PCB (PCB1/J401) - DADF Driver PCB (PCB1) - Reader Controller PCB (UN_BO1) <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E302-0102-04	Error in paper back black shading
Detection Description	An access error to the paper back black shading RAM or a paper back black shading value out of specification was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J4) and the DADF Driver PCB (PCB1/J401) - DADF Driver PCB (PCB1) - Reader Controller PCB (UN_BO1) <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES

E302-0103-04	Error in paper back white shading
Detection Description	The paper back white shading value gradually became out of the specified range.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flat Cable between the DADF Scanner Unit (J1102) and the Reader Controller PCB (J105) (Unit of replacement: FLAT CABLE UNIT) - Harness between the Reader Controller PCB (J109) and the Riser PCB (J4031) (Unit of replacement: CABLE, INTERFACE) - DADF Scanner Unit - Reader Controller PCB <p>[Remedy]</p> <ol style="list-style-type: none"> 1. Clean the LED, mirror, and Stream Reading Glass of Scanner Unit. 2. Check/replace the related harness/cable, connector and parts. <p>[Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E315-0007-00	Image process device timeout error
Detection Description	Image compression process was not completed within the specified period of time at scanning.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Main Controller PCB - HDD <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Perform the following work, and turn OFF and then ON the main power. <ul style="list-style-type: none"> - Open all the cassettes. - Disconnect the telephone cord and LAN cable. - Clear received jobs/send jobs. * Image data will be deleted; therefore, it is necessary to gain approval from the customer. 2. Install the latest system software using SST or a USB flash drive. 3. Check/replace the Main Controller PCB. 4. Format the HDD. 5. Replace the HDD.
E315-000D-00	Image process device timeout error
Detection Description	Processing of a JBIG-compressed data was not completed within the specified period of time at printing or SEND.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Main Controller PCB - HDD <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Perform the following work, and turn OFF and then ON the main power. <ul style="list-style-type: none"> - Open all the cassettes. - Disconnect the telephone cord and LAN cable. - Clear received jobs/send jobs. * Image data will be deleted; therefore, it is necessary to gain approval from the customer. 2. Install the latest system software using SST or a USB flash drive. 3. Check/replace the Main Controller PCB. 4. Format the HDD. 5. Replace the HDD.

E315-000E-00	Image process device error
Detection Description	Software error of image process device was detected.
Remedy	[Related parts] - Main Controller PCB - HDD [Remedy] Perform the following in the order while checking whether the error is cleared. 1. Perform the following work, and turn OFF and then ON the main power. - Open all the cassettes. - Disconnect the telephone cord and LAN cable. - Clear received jobs/send jobs. * Image data will be deleted; therefore, it is necessary to gain approval from the customer. 2. Install the latest system software using SST or a USB flash drive. 3. Check/replace the Main Controller PCB. 4. Format the HDD. 5. Replace the HDD.
E350-0000-00	System error
Detection Description	System error
Remedy	Contact the service company office
E350-0001-00	System error
Detection Description	System error
Remedy	Contact to the sales company.
E350-0002-00	System error
Detection Description	System error
Remedy	Contact to the sales company.
E350-0003-00	System error
Detection Description	System error
Remedy	Contact to the sales company.
E350-3000-00	System error
Detection Description	System error
Remedy	Contact to the sales company.
E351-0000-00	System error
Detection Description	Main Controller PCB communication error.
Remedy	[Remedy] Check/replace the Main Controller PCB
E354-0001-00	System error
Detection Description	System error
Remedy	Contact the service company office
E354-0002-00	System error
Detection Description	System error
Remedy	Contact to the sales company.
E355-0001-00	System error
Detection Description	System error
Remedy	Contact the service company office
E355-0002-00	System error
Detection Description	System error
Remedy	Contact to the sales company.
E355-0003-00	System error
Detection Description	System error
Remedy	Contact to the sales company.

E355-0004-00	System error
Detection Description	System error
Remedy	Contact to the sales company.
E400-0001-04	Communication error
Detection Description	A communication error between the Reader Controller PCB and the DADF Driver PCB was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J4) and the DADF Driver PCB (PCB1/J401) - Harness between the Reader Controller PCB (UN_BO1/J104) and the DADF Driver PCB (PCB1/J402) - DADF Driver PCB (PCB1) - Reader Controller PCB (UN_BO1) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E400-0002-04	Communication error
Detection Description	A communication error between the Reader Controller PCB and the DADF Driver PCB was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J4) and the DADF Driver PCB (PCB1/J401) - Harness between the Reader Controller PCB (UN_BO1/J104) and the DADF Driver PCB (PCB1/J402) - DADF Driver PCB (PCB1) - Reader Controller PCB (UN_BO1) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E400-0003-04	Communication error
Detection Description	Disconnection of the harness between the Reader Controller PCB and the DADF Driver PCB was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J4) and the DADF Driver PCB (PCB1/J401) - Harness between the Reader Controller PCB (UN_BO1/J104) and the DADF Driver PCB (PCB1/J402) - DADF Driver PCB (PCB1) - Reader Controller PCB (UN_BO1) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E412-0005-04	Fan error
Detection Description	Rotation of fan was detected after the stop signal for the DADF Cooling Fan was transmitted.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - DADF Cooling Fan (FAN_A1) - DADF Driver PCB (PCB1) <p>[Remedy] Check/replace the related parts.</p>

E412-0006-04	Fan error
Detection Description	Stop of fan was detected after rotation signal for the DADF Cooling Fan was transmitted.
Remedy	[Related parts] - DADF Cooling Fan (FAN_A1) - DADF Driver PCB (PCB1) [Remedy] Check/replace the related parts.
E423-0001-04	SDRAM error in the Reader Controller PCB
Detection Description	Either an access error to SDRAM in the Reader Controller PCB or an error at data inspection was detected.
Remedy	[Remedy] Replace the Reader Controller PCB (UN_BO1). [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E423-0002-04	SDRAM error in the Reader Controller PCB
Detection Description	Either an access error to SDRAM in the Reader Controller PCB or an error at data inspection was detected.
Remedy	[Remedy] Replace the Reader Controller PCB (UN_BO1). [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E490-0001-04	Different Scanner Unit model error
Detection Description	A wrong Scanner Unit was installed.
Remedy	[Remedy] Install the Scanner Unit for this model.
E490-0101-04	Different DADF model error
Detection Description	A wrong DADF was installed.
Remedy	[Related parts] - Flat Cable between the DADF Driver PCB (PCB1/J401) and the Reader Controller PCB (UN_BO1/J4) - DADF Driver PCB (PCB1) - Reader Controller PCB (UN_BO1) [Remedy] Perform the following in the order while checking whether the error is cleared. 1. Check if the installed DADF model matches the model that was set in "COPIER> OPTION> CUSTOM> SCANTYPE". If not matched, install the appropriate DADF. 2. Check/replace the related parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES

E501-0000-02	Communication error (Finisher-H1)
Detection Description	A communication error between the host machine and the Finisher was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses and connectors from the DC Controller PCB to the Finisher Controller PCB - Finisher Controller PCB (PCB1) - DC Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check/replace the harness and connector between the DC Controller PCB and the Finisher Controller PCB. 2. Replace the Finisher Controller PCB. <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> Adjustment when Replacing the Parts" in the Service Manual.</p> <ol style="list-style-type: none"> 3. Replace the DC Controller PCB. <p>[Reference] Before replacing the DC Controller PCB, back up the service mode data and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMRES
E503-0021-02	Error in communication between the Finisher and Saddle Unit (Finisher-Y1)
Detection Description	Communication error between the Finisher Controller PCB and the Saddle Stitcher Controller PCB was detected. (Command transmission error)
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Saddle Stitcher Controller PCB - Finisher Controller PCB (PCB101) - Saddle Stitcher Controller PCB (PCB201) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check/replace the harness and connector between the Finisher Controller PCB and the Saddle Stitcher Controller PCB. 2. Replace the Finisher Controller PCB. <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p> <ol style="list-style-type: none"> 3. Replace the Saddle Stitcher Controller PCB.
E503-0022-02	Error in communication between the Finisher and Saddle Unit (Finisher-Y1)
Detection Description	Communication error between the Finisher Controller PCB and the Saddle Stitcher Controller PCB was detected. (Command reception error)
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Saddle Stitcher Controller PCB - Finisher Controller PCB (PCB101) - Saddle Stitcher Controller PCB (PCB201) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check/replace the harness and connector between the Finisher Controller PCB and the Saddle Stitcher Controller PCB. 2. Replace the Finisher Controller PCB. <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p> <ol style="list-style-type: none"> 3. Replace the Saddle Stitcher Controller PCB.

E503-0031-02	Error in communication between the Finisher and Puncher Unit (Finisher-H1/Y1)
Detection Description	Communication error between the Finisher Controller PCB and the Puncher Controller PCB was detected. (Command transmission error)
Remedy	<p>[Related parts]</p> <p>a. INNER FIN-H1</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Puncher Controller PCB - Finisher Controller PCB (PCB1) - Puncher Controller PCB (PCB1) <p>b. STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Puncher Controller PCB - Finisher Controller PCB (PCB101) - Puncher Controller PCB (PCB301) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check/replace the harness and connector between the Finisher Controller PCB and the Puncher Controller PCB. 2. Replace the Finisher Controller PCB. <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p> <ol style="list-style-type: none"> 3. Replace the Puncher Controller PCB. <p>[Reference] When replacing the Puncher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E503-0032-02	Error in communication between the Finisher and Puncher Unit (Finisher-H1/Y1)
Detection Description	Communication error between the Finisher Controller PCB and the Puncher Controller PCB was detected. (Command reception error)
Remedy	<p>[Related parts]</p> <p>a. INNER FIN-H1</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Puncher Controller PCB - Finisher Controller PCB (PCB1) - Puncher Controller PCB (PCB1) <p>b. STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Puncher Controller PCB - Finisher Controller PCB (PCB101) - Puncher Controller PCB (PCB301) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check/replace the harness and connector between the Finisher Controller PCB and the Puncher Controller PCB. 2. Replace the Finisher Controller PCB. <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p> <ol style="list-style-type: none"> 3. Replace the Puncher Controller PCB. <p>[Reference] When replacing the Puncher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E503-0041-02	Error in communication between the Finisher and Buffer Pass (Finisher-Y1)
Detection Description	Communication error between the Finisher Controller PCB and the Buffer Pass Controller PCB was detected. (Command transmission error)
Remedy	<p>[Related parts]</p> <p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Buffer Pass Controller PCB to the Finisher Controller PCB - Buffer Pass Controller PCB (PCB401) - Finisher Controller PCB (PCB101) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check/replace the harness and connector between the Buffer Pass Controller PCB and the Finisher Controller PCB. 2. Replace the Buffer Pass Controller PCB. 3. Replace the Finisher Controller PCB. <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> Adjustment when Replacing the Parts" in the Service Manual.</p>

E503-0042-02	Error in communication between the Finisher and Buffer Pass (Finisher-Y1)
Detection Description	Communication error between the Finisher Controller PCB and the Buffer Pass Controller PCB was detected. (Command reception error)
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Buffer Pass Controller PCB to the Finisher Controller PCB - Buffer Pass Controller PCB (PCB401) - Finisher Controller PCB (PCB101) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check/replace the harness and connector between the Buffer Pass Controller PCB and the Finisher Controller PCB. 2. Replace the Buffer Pass Controller PCB. 3. Replace the Finisher Controller PCB. <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> Adjustment when Replacing the Parts" in the Service Manual.</p>
E503-0061-02	Error in communication between the IC of Finisher Controller PCB (Finisher-Y1)
Detection Description	Communication error between the IC of Finisher Controller PCB was detected. (Command transmission error)
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Finisher Controller PCB (PCB101) <p>[Remedy] Replace the Finisher Controller PCB.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E503-0062-02	Error in communication between the IC of Finisher Controller PCB (Finisher-Y1)
Detection Description	Communication error between the IC of Finisher Controller PCB was detected. (Command reception error)
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Finisher Controller PCB (PCB101) <p>[Remedy] Replace the Finisher Controller PCB.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E505-0001-02	a. Finisher data error (Finisher-H1) b. Finisher data error (Finisher-Y1)
Detection Description	The data read from Finisher Controller PCB has an error. (The read data doesn't match with the written data.)
Remedy	<p>[Related parts]</p> <ol style="list-style-type: none"> a. INNER FIN-H1 <ul style="list-style-type: none"> - Finisher Controller PCB (PCB1) b. STAPLE FIN-Y1/BOOKLET FIN-Y1 <ul style="list-style-type: none"> - Finisher Controller PCB (PCB101) <p>[Remedy] Replace the Finisher Controller PCB.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E505-0004-02	Puncher unit data error (Inner Puncher-B1/Puncher Unit-A1)
Detection Description	The data read from Puncher Controller PCB has an error. (The read data doesn't match with the written data.)
Remedy	<p>[Related parts]</p> <ol style="list-style-type: none"> a. INNER PUNCH-B1 <ul style="list-style-type: none"> - Puncher Controller PCB (PCB1) b. PUNCHER UNIT-A1 <ul style="list-style-type: none"> - Puncher Controller PCB (PCB301) <p>[Remedy] Replace the Puncher Controller PCB.</p> <p>[Reference] When replacing the Puncher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E505-0005-02	Buffer Pass data error (Buffer Pass unit-L1)
Detection Description	The data read from Puncher Controller PCB has an error. (The read data doesn't match with the written data.)
Remedy	[Related parts] BUFFER PASS UNIT-L1 - Buffer Pass Controller PCB (PCB401) [Remedy] Check/replace the corresponding harnesses/cables or connectors or the parts.
E514-0002-02	Assist Motor error (Finisher-H1)
Detection Description	- The Assist HP Sensor was not turned ON although 3 seconds had passed after the Assist Motor operation started. - The Assist HP Sensor was not turned ON when starting operation.
Remedy	[Related parts] - Harnesses and connectors from the Finisher Controller PCB to the Assist HP Sensor - Harnesses and connectors from the Finisher Controller PCB to the Assist Motor - Assist HP Sensor (PS7) - Assist Motor (M5) - Finisher Controller PCB (PCB1) [Remedy] Check/replace the corresponding harnesses/cables or connectors or the parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> Adjustment when Replacing the Parts" in the Service Manual.
E514-8001-02	a. Assist Motor error (Finisher-H1) b. Error in the Paper End Assist Motor (Finisher-Y1)
Detection Description	a. The Assist HP Sensor was not turned OFF although 1 second had passed after the Assist Motor operation started. b. The assist belt does not come off the Paper End Assist HP Sensor when the Paper End Assist Motor has been driven for 1 second.
Remedy	[Related parts] a. INNER FIN-H1 - Harnesses and connectors from the Finisher Controller PCB to the Assist HP Sensor - Harnesses and connectors from the Finisher Controller PCB to the Assist Motor - Assist HP Sensor (PS7) - Assist Motor (M5) - Finisher Controller PCB (PCB1) b. STAPLE FIN-Y1/BOOKLET FIN-Y1 - Harnesses from the Paper End Assist HP Sensor (PS123) to the Finisher Controller PCB - Harnesses from the Paper End Assist Motor (M113) to the Finisher Controller PCB - Paper End Assist HP Sensor (PS123) - Paper End Assist Motor (M113) - Finisher Controller PCB (PCB101) [Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.
E514-8002-02	Error in the Paper End Assist Motor (Finisher-Y1)
Detection Description	The Paper End Assist HP Sensor does not detect the assist belt when the Paper End Assist Motor has been driven for 2 seconds.
Remedy	STAPLE FIN-Y1/BOOKLET FIN-Y1 [Related parts] - Harnesses from the Paper End Assist HP Sensor (PS123) to the Finisher Controller PCB - Harnesses from the Paper End Assist Motor (M113) to the Finisher Controller PCB - Paper End Assist HP Sensor (PS123) - Paper End Assist Motor (M113) - Finisher Controller PCB (PCB101) [Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.

E516-0001-02	Paddle Motor error (Finisher-H1)
Detection Description	<ul style="list-style-type: none"> - The Paper Fold HP Sensor was not turned OFF although 3 seconds had passed after the Paddle Motor operation started. - The last paper fold operation is not finished when driving the Paddle Motor.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Paper Fold HP Sensor - Harnesses and connectors from the Finisher Controller PCB to the Paddle Motor - Paper Fold HP Sensor (PS8) - Paddle Motor (M10) - Finisher Controller PCB (PCB1) <p>[Remedy] Check/replace the corresponding harnesses/cables or connectors or the parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> Adjustment when Replacing the Parts" in the Service Manual.</p>
E516-0002-02	Paddle Motor error (Finisher-H1)
Detection Description	<ul style="list-style-type: none"> - The Paper Fold HP Sensor was not turned ON although 3 seconds had passed after the Paddle Motor operation started. - The last paper fold operation is not finished when driving the Paddle Motor.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Paper Fold HP Sensor - Harnesses and connectors from the Finisher Controller PCB to the Paddle Motor - Paper Fold HP Sensor (PS8) - Paddle Motor (M10) - Finisher Controller PCB (PCB1) <p>[Remedy] Check/replace the corresponding harnesses/cables or connectors or the parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> Adjustment when Replacing the Parts" in the Service Manual.</p>
E530-8001-02	a. Rear Alignment Motor error (Finisher-H1) b. Error in the Front Alignment Motor (Finisher-Y1)
Detection Description	<ul style="list-style-type: none"> a. The Rear Alignment Plate HP Sensor was not turned OFF although 1 second had passed after the Rear Alignment Motor operation started. b. The front alignment plate does not come off the Front Alignment HP Sensor when the Front Alignment Motor has been driven for 1 second.
Remedy	<p>[Related parts]</p> <p>a. INNER FIN-H1</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Rear Alignment Plate HP Sensor - Harnesses and connectors from the Finisher Controller PCB to the Rear Alignment Motor - Rear Alignment Plate HP Sensor (PS5) - Rear Alignment Motor (M4) - Finisher Controller PCB (PCB1) <p>b. STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <ul style="list-style-type: none"> - Harnesses from the Front Alignment HP Sensor (PS115) to the Finisher Controller PCB - Harnesses from the Front Alignment Motor (M107) to the Finisher Controller PCB - Front Alignment HP Sensor (PS115) - Front Alignment Motor (M107) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E530-8002-02	a. Rear Alignment Motor error (Finisher-H1) b. Error in the Front Alignment Motor (Finisher-Y1)
Detection Description	<p>a. The Rear Alignment Plate HP Sensor was not turned ON although 5 seconds had passed after the Rear Alignment Motor operation started.</p> <p>b. The Front Alignment HP Sensor does not detect the Front Alignment plate when the Front Alignment Motor has been driven for 1 second.</p>
Remedy	<p>[Related parts]</p> <p>a. INNER FIN-H1</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Rear Alignment Plate HP Sensor - Harnesses and connectors from the Finisher Controller PCB to the Rear Alignment Motor - Rear Alignment Plate HP Sensor (PS5) - Rear Alignment Motor (M4) - Finisher Controller PCB (PCB1) <p>b. STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <ul style="list-style-type: none"> - Harnesses from the Front Alignment HP Sensor (PS115) to the Finisher Controller PCB - Harnesses from the Front Alignment Motor (M107) to the Finisher Controller PCB - Front Alignment HP Sensor (PS115) - Front Alignment Motor (M107) - Finisher Controller PCB (PCB1) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types</p> <p>New Type (J132: Short Connector)</p> <p>Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E531-8001-02	a. Stapler Motor error (Finisher-H1) b. Error in the Staple Motor (Finisher-Y1)
Detection Description	<p>a. The Staple HP Sensor was not turned OFF although 0.4 seconds had passed after the Stapler Motor operation started.</p> <p>b. The staple unit does not come off the Staple HP Sensor when the Staple Motor has been driven for 0.4 seconds.</p>
Remedy	<p>[Related parts]</p> <p>a. INNER FIN-H1</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Stapler Unit - Stapler Unit (including the Stapler Motor and the Staple HP Sensor) - Finisher Controller PCB (PCB1) <p>b. STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <ul style="list-style-type: none"> - Harnesses from the Stapler Unit to the Stapler Relay PCB - Harnesses from the Stapler Unit Relay PCB to the Finisher Controller PCB - Stapler Unit - Stapler Unit Relay PCB (PCB102) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types</p> <p>New Type (J132: Short Connector)</p> <p>Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E531-8002-02	a. Stapler Motor error (Finisher-H1) b. Error in the Staple Motor (Finisher-Y1)
Detection Description	<p>a. The Staple HP Sensor was not turned ON although 0.4 seconds had passed after the Stapler Motor operation started.</p> <p>b. The Staple HP Sensor does not detect the staple unit when the Staple Motor has been driven for 0.4 seconds.</p>
Remedy	<p>[Related parts]</p> <p>a. INNER FIN-H1</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Stapler Unit - Stapler Unit (including the Stapler Motor and the Staple HP Sensor) - Finisher Controller PCB (PCB1) <p>b. STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <ul style="list-style-type: none"> - Harnesses from the Stapler Unit to the Stapler Relay PCB - Harnesses from the Stapler Unit Relay PCB to the Finisher Controller PCB - Stapler Unit - Stapler Unit Relay PCB (PCB102) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types</p> <p>New Type (J132: Short Connector)</p> <p>Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E532-8001-02	a. Stapler Shift Motor error (Finisher-H1) b. Error in the Stapler Shift Motor (Finisher-Y1)
Detection Description	<p>a. The Stapler Shift HP Sensor was not turned OFF although 1 second had passed after the Stapler Shift Motor operation started.</p> <p>b. The stapler unit does not come off the Stapler Shift HP Sensor when the Stapler Shift Motor has been driven for 1 second.</p>
Remedy	<p>[Related parts]</p> <p>a. INNER FIN-H1</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Stapler Shift HP Sensor - Harnesses and connectors from the Finisher Controller PCB to the Stapler Shift Motor - Stapler Shift HP Sensor (PS11) - Stapler Shift Motor (M7) - Finisher Controller PCB (PCB1) <p>b. STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <ul style="list-style-type: none"> - Harnesses from the Stapler Shift HP Sensor (PS124) to the Finisher Controller PCB - Harnesses from the Stapler Shift Motor (M114) to the Finisher Controller PCB - Stapler Shift HP Sensor (PS124) - Stapler Shift Motor (M114) - Finisher Controller PCB (PCB101) <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E532-8002-02	a. Stapler Shift Motor error (Finisher-H1) b. Error in the Stapler Shift Motor (Finisher-Y1)
Detection Description	<p>a. The Stapler Shift HP Sensor was not turned ON although 10 seconds had passed after the Stapler Shift Motor operation started.</p> <p>b. The Stapler Shift HP Sensor does not detect the stapler unit when the Stapler Shift Motor has been driven for 15 seconds.</p>
Remedy	<p>[Related parts]</p> <p>a. INNER FIN-H1</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Stapler Shift HP Sensor - Harnesses and connectors from the Finisher Controller PCB to the Stapler Shift Motor - Stapler Shift HP Sensor (PS11) - Stapler Shift Motor (M7) - Finisher Controller PCB (PCB1) <p>b. STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <ul style="list-style-type: none"> - Harnesses from the Stapler Shift HP Sensor (PS124) to the Finisher Controller PCB - Harnesses from the Stapler Shift Motor (M114) to the Finisher Controller PCB - Stapler Shift HP Sensor (PS124) - Stapler Shift Motor (M114) - Finisher Controller PCB (PCB101) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E535-0001-02	Return Belt Motor error (Finisher-H1)
Detection Description	The Return Belt HP Sensor was not turned OFF although 1 second had passed after the Return Belt Motor operation started.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Return Belt HP Sensor - Harnesses and connectors from the Finisher Controller PCB to the Return Belt Motor - Return Belt HP Sensor (PS3) - Return Belt Motor (M2) - Finisher Controller PCB (PCB1) <p>[Remedy] Check/replace the corresponding harnesses/cables or connectors or the parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> Adjustment when Replacing the Parts" in the Service Manual.</p>
E535-0002-02	Return Belt Motor error (Finisher-H1)
Detection Description	The Return Belt HP Sensor was not turned ON although 1 second had passed after the Return Belt Motor operation started.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Return Belt HP Sensor - Harnesses and connectors from the Finisher Controller PCB to the Return Belt Motor - Return Belt HP Sensor (PS3) - Return Belt Motor (M2) - Finisher Controller PCB (PCB1) <p>[Remedy] Check/replace the corresponding harnesses/cables or connectors or the parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> Adjustment when Replacing the Parts" in the Service Manual.</p>

E535-8001-02	Error in the Swing Guide Motor (Finisher-Y1)
Detection Description	The swing guide does not come off the Swing Guide HP Sensor when the Swing Guide Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Swing Guide HP Sensor (PS119) to the Finisher Controller PCB - Harnesses from the Swing Guide Motor (M110) to the Finisher Controller PCB - Swing Guide HP Sensor (PS119) - Swing Guide Motor (M110) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E535-8002-02	Error in the Swing Guide Motor (Finisher-Y1)
Detection Description	The Swing Guide HP Sensor does not detect the swing guide when the Swing Guide Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Swing Guide HP Sensor (PS119) to the Finisher Controller PCB - Harnesses from the Swing Guide Motor (M110) to the Finisher Controller PCB - Swing Guide HP Sensor (PS119) - Swing Guide Motor (M110) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E537-8001-02	a. Front Alignment Motor error (Finisher-H1) b. Error in the Rear Alignment Motor (Finisher-Y1)
Detection Description	<p>a. The Front Alignment Plate HP Sensor was not turned OFF although 1 second had passed after the Front Alignment Motor operation started.</p> <p>b. The rear alignment plate does not come off the Rear Alignment HP Sensor when the Rear Alignment Motor has been driven for 1 second.</p>
Remedy	<p>[Related parts]</p> <p>a. INNER FIN-H1</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Front Alignment Plate HP Sensor - Harnesses and connectors from the Finisher Controller PCB to the Front Alignment Motor - Front Alignment Plate HP Sensor (PS4) - Front Alignment Motor (M3) - Finisher Controller PCB (PCB1) <p>b. STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <ul style="list-style-type: none"> - Harnesses from the Rear Alignment HP Sensor (PS116) to the Finisher Controller PCB - Harnesses from the Rear Alignment Motor (M108) to the Finisher Controller PCB - Rear Alignment HP Sensor (PS116) - Rear Alignment Motor (M108) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E537-8002-02	a. Front Alignment Motor error (Finisher-H1) b. Error in the Rear Alignment Motor (Finisher-Y1)
Detection Description	<p>a. The Front Alignment Plate HP Sensor was not turned ON although 5 seconds had passed after the Front Alignment Motor operation started.</p> <p>b. The Rear Alignment HP Sensor does not detect the rear alignment plate when the Rear Alignment Motor has been driven for 1 second.</p>
Remedy	<p>[Related parts]</p> <p>a. INNER FIN-H1</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Front Alignment Plate HP Sensor - Harnesses and connectors from the Finisher Controller PCB to the Front Alignment Motor - Front Alignment Plate HP Sensor (PS4) - Front Alignment Motor (M3) - Finisher Controller PCB (PCB1) <p>b. STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <ul style="list-style-type: none"> - Harnesses from the Rear Alignment HP Sensor (PS116) to the Finisher Controller PCB - Harnesses from the Rear Alignment Motor (M108) to the Finisher Controller PCB - Rear Alignment HP Sensor (PS116) - Rear Alignment Motor (M108) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E540-8001-02**a. Tray Shift Motor error (Finisher-H1) b. Stack tray time out error (Finisher-Y1)****Detection Description**

- a. The Stack Tray Paper Height Sensor was not turned ON although 5 seconds had passed after the Tray Shift Motor operation started.
- b. The operation of the stack tray don't finish when the Stack Tray Shift Motor has been driven for 28 seconds.
- The stack tray does not come off the same area when the Stack Tray Shift Motor has been driven for 15 seconds.

Remedy

[Related parts]

a. INNER FIN-H1

- Harnesses and connectors from the Finisher Controller PCB to the Stack Tray Paper Height Sensor
- Harnesses and connectors from the Finisher Controller PCB to the Tray Shift Motor
- Stack Tray Paper Height Sensor (PS9)
- Tray Shift Motor (M6)
- Finisher Controller PCB (PCB1)

b. STAPLE FIN-Y1/BOOKLET FIN-Y1

- Harnesses from the Stack Tray HP Sensor (PS106) to the Finisher Controller PCB
- Harnesses from the Stack Tray Full Sensor 1/2/3 (PS107/PS108/PS109) to the Finisher Controller PCB
- Harnesses from the Stack Tray Upper Limit Sensor (PS110) to the Finisher Controller PCB
- Harnesses from the Stack Tray Shift Motor (M105) to the Finisher Controller PCB
- Stack Tray HP Sensor (PS106)
- Stack Tray Full Sensor 1/2/3 (PS107/PS108/PS109)
- Stack Tray Upper Limit Sensor (PS110)
- Stack Tray Shift Motor (M105)
- Finisher Controller PCB (PCB101)

[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed.

Accordingly, perform the following work before checking the related parts.

1. Check whether there is not the malfunction in the swing guide unit.
2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102).

*: Distinguishing Between the New/Old Types

New Type (J132: Short Connector)

Old Type (J132: Swing Guide Safety Switch (SW102))

[Remedy] Check/replace the related harness/cable, connector and parts.

[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.

E540-8002-02

a. Tray Shift Motor error (Finisher-H1) b. Stack tray area error (Finisher-Y1)

Detection Description

- a. The Front Alignment Plate HP Sensor was not turned OFF or the Stack Tray Lower Limit Sensor was not turned ON although 3.5 seconds had passed after the Front Alignment Motor operation started in the tray down operation.
The Front Alignment Plate HP Sensor was not turned OFF after the tray was moved down in the paper level detection operation.
- b. The stack tray detects the discontinuous area during the operation.

Remedy

[Related parts]

a. INNER FIN-H1

- Harnesses and connectors from the Finisher Controller PCB to the Stack Tray Paper Height Sensor
- Harnesses and connectors from the Finisher Controller PCB to the Tray Shift Motor
- Stack Tray Paper Height Sensor (PS9)
- Tray Shift Motor (M6)
- Finisher Controller PCB (PCB1)

b. STAPLE FIN-Y1/BOOKLET FIN-Y1

- Harnesses from the Stack Tray HP Sensor (PS106) to the Finisher Controller PCB
- Harnesses from the Stack Tray Full Sensor 1/2/3 (PS107/PS108/PS109) to the Finisher Controller PCB
- Harnesses from the Stack Tray Upper Limit Sensor (PS110) to the Finisher Controller PCB
- Harnesses from the Stack Tray Shift Motor (M105) to the Finisher Controller PCB
- Stack Tray HP Sensor (PS106)
- Stack Tray Full Sensor 1/2/3 (PS107/PS108/PS109)
- Stack Tray Upper Limit Sensor (PS110)
- Stack Tray Shift Motor (M105)
- Finisher Controller PCB (PCB1)

[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed.

Accordingly, perform the following work before checking the related parts.

1. Check whether there is not the malfunction in the swing guide unit.
2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102).

*: Distinguishing Between the New/Old Types

New Type (J132: Short Connector)

Old Type (J132: Swing Guide Safety Switch (SW102))

[Remedy] Check/replace the related harness/cable, connector and parts.

[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.

E540-8004-02	Stack tray paper surface detection error (Finisher-Y1)
Detection Description	The Stack Tray Paper Surface Sensor does not turn off when the stack tray has been lowered for 10 seconds.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Stack Tray Paper Surface Sensor (light-emitting) (PBA101) to the Finisher Controller PCB - Harnesses from the Stack Tray Paper Surface Sensor (light-receiving) (PBA102/PBA103) to the Finisher Controller PCB - Harnesses from the Stack Tray Shift Motor (M105) to the Finisher Controller PCB - Stack Tray Paper Surface Sensor (light-emitting) (PBA101) - Stack Tray Paper Surface Sensor (light-receiving) (PBA102/PBA103) - Stack Tray Shift Motor (M105) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E551-0003-02	Error in the Cooling Fan (Finisher-Y1)
Detection Description	The lock signal is detected 1.2 seconds or more while the fan operates.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Cooling Fan (FM101) to the Finisher Controller PCB - Cooling Fan (FM101) - Finisher Controller PCB (PCB101) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E551-0004-02	Error in the Cooling Fan of the Finisher (Finisher-Y1)
Detection Description	The lock status is released when the fan stops.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Cooling Fan (FM101) to the Finisher Controller PCB - Cooling Fan (FM101) - Finisher Controller PCB (PCB101) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E553-8001-02	Error in the Escape Delivery Shift Motor (Finisher-Y1)
Detection Description	The lower escape delivery roller does not come off the Escape Delivery Roller HP Sensor when the Escape Delivery Shift Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Escape Delivery Roller HP Sensor (PS112) to the Finisher Controller PCB - Harnesses from the Escape Delivery Shift Motor (M106) to the Finisher Controller PCB - Escape Delivery Roller HP Sensor (PS112) - Escape Delivery Shift Motor (M106) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types</p> <p>New Type (J132: Short Connector)</p> <p>Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E553-8002-02	Error in the Escape Delivery Shift Motor (Finisher-Y1)
Detection Description	The Escape Delivery Roller HP Sensor does not detect the escape delivery roller when the Escape Delivery Shift Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Escape Delivery Roller HP Sensor (PS112) to the Finisher Controller PCB - Harnesses from the Escape Delivery Shift Motor (M106) to the Finisher Controller PCB - Escape Delivery Roller HP Sensor (PS112) - Escape Delivery Shift Motor (M106) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types</p> <p>New Type (J132: Short Connector)</p> <p>Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E553-8011-02	Error in the Flapper Motor (Finisher-Y1)
Detection Description	The flapper does not come off the Flapper HP Sensor when the Flapper Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Flapper HP Sensor (PS105) to the Finisher Controller PCB - Harnesses from the Flapper Motor (M104) to the Finisher Controller PCB - Flapper HP Sensor (PS105) - Flapper Motor (M104) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types</p> <p>New Type (J132: Short Connector)</p> <p>Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E553-8012-02	Error in the Flapper Motor (Finisher-Y1)
Detection Description	The Flapper HP Sensor does not detect the flapper when the Flapper Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Flapper HP Sensor (PS105) to the Finisher Controller PCB - Harnesses from the Flapper Motor (M104) to the Finisher Controller PCB - Flapper HP Sensor (PS105) - Flapper Motor (M104) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types</p> <p>New Type (J132: Short Connector)</p> <p>Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E553-80F1-02	Error in the Saddle Feed/Paddle Motor (Finisher-Y1)
Detection Description	The paddle does not come off the Saddle Paddle HP Sensor when the Saddle Feed/Paddle Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Saddle Paddle HP Sensor (PS206) to the Saddle Stitcher Controller PCB - Harnesses from the Saddle Feed/Paddle Motor (M201) to the Saddle Stitcher Controller PCB - Saddle Paddle HP Sensor (PS206) - Saddle Feed/Paddle Motor (M201) - Saddle Stitcher Controller PCB (PCB201) - Finisher Controller PCB (PCB101) <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E553-80F2-02	Error in the Saddle Feed/Paddle Motor (Finisher-Y1)
Detection Description	The Saddle Paddle HP Sensor does not detect the paddle when the Saddle Feed/Paddle Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Saddle Paddle HP Sensor (PS206) to the Saddle Stitcher Controller PCB - Harnesses from the Saddle Feed/Paddle Motor (M201) to the Saddle Stitcher Controller PCB - Saddle Paddle HP Sensor (PS206) - Saddle Feed/Paddle Motor (M201) - Saddle Stitcher Controller PCB (PCB201) - Finisher Controller PCB (PCB101) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E554-8001-02	Safety switch ON error (Finisher-Y1)
Detection Description	The Front Cover Switch is turned OFF for 0.3 seconds when the Front Cover Sensor is ON. An error of Short Connector (J132) was detected. (New Type *) The Swing Guide Safety Switch is turned ON for 0.3 seconds. (Old Type*)
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Swing Guide Safety Switch (SW102) to the Finisher Controller PCB (Old Type*) - Harnesses from the Stack Tray Shift Motor (M105) to the Finisher Controller PCB - Short Connector (J132) (New Type*) - Swing Guide Safety Switch (SW102) (Old Type*) - Stack Tray Shift Motor (M105) - Finisher Controller PCB (PCB101) <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E577-0002-02	Paddle Motor error (Finisher-H1)
Detection Description	<ul style="list-style-type: none"> - The Return Belt HP Sensor was not turned ON although 1 second had passed after the Paddle Motor operation started. - The last paddle operation is not finished when driving the Paddle Motor.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Return Belt HP Sensor - Harnesses and connectors from the Finisher Controller PCB to the Paddle Motor - Return Belt HP Sensor (PS3) - Paddle Motor (M10) - Finisher Controller PCB (PCB1) <p>[Remedy] Check/replace the corresponding harnesses/cables or connectors or the parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> Adjustment when Replacing the Parts" in the Service Manual.</p>

E577-8001-02	a. Paddle Motor error (Finisher-H1) b. Error in the Stack Delivery/Paddle Motor (Finisher-Y1)
Detection Description	<p>a. The Return Belt HP Sensor was not turned ON although 1 second had passed after the Paddle Motor operation started. The last paddle operation is not finished when driving the Paddle Motor.</p> <p>b. The paddle does not come off the Paddle HP Sensor when the Stack Delivery/Paddle Motor has been driven for 1 second.</p>
Remedy	<p>[Related parts]</p> <p>a. INNER FIN-H1</p> <ul style="list-style-type: none"> - Harnesses and connectors from the Finisher Controller PCB to the Return Belt HP Sensor - Harnesses and connectors from the Finisher Controller PCB to the Paddle Motor - Return Belt HP Sensor (PS3) - Paddle Motor (M10) - Finisher Controller PCB (PCB1) <p>b. STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <ul style="list-style-type: none"> - Harnesses from the Paddle HP Sensor (PS120) to the Finisher Controller PCB - Harnesses from the Stack Delivery/Paddle Motor (M103) to the Finisher Controller PCB - Paddle HP Sensor (PS120) - Stack Delivery/Paddle Motor (M103) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types</p> <p>New Type (J132: Short Connector)</p> <p>Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E577-8002-02	Error in the Stack Delivery/Paddle Motor (Finisher-Y1)
Detection Description	<p>The Paddle HP Sensor does not detect the paddle when the Stack Delivery/Paddle Motor has been driven for 1 second.</p>
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Paddle HP Sensor (PS120) to the Finisher Controller PCB - Harnesses from the Stack Delivery/Paddle Motor (M103) to the Finisher Controller PCB - Paddle HP Sensor (PS120) - Stack Delivery/Paddle Motor (M103) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types</p> <p>New Type (J132: Short Connector)</p> <p>Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E578-8001-02	Error in the Return Roller Lift Motor (Finisher-Y1)
Detection Description	The return roller does not come off the Return Roller HP Sensor when the Return Roller Lift Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Return Roller HP Sensor (PS121) to the Finisher Controller PCB - Harnesses from the Return Roller Lift Motor (M111) to the Finisher Controller PCB - Return Roller HP Sensor (PS121) - Return Roller Lift Motor (M111) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types</p> <p>New Type (J132: Short Connector)</p> <p>Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E578-8002-02	Error in the Return Roller Lift Motor (Finisher-Y1)
Detection Description	The Return Roller HP Sensor does not detect the return roller when the Return Roller Lift Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Return Roller HP Sensor (PS121) to the Finisher Controller PCB - Harnesses from the Return Roller Lift Motor (M111) to the Finisher Controller PCB - Return Roller HP Sensor (PS121) - Return Roller Lift Motor (M111) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types</p> <p>New Type (J132: Short Connector)</p> <p>Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E57B-8001-02	Error in the Paper End Pushing Guide Motor (Finisher-Y1)
Detection Description	The paper end pushing guide does not come off the Paper End Pushing Guide HP Sensor when the Paper End Pushing Guide Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Paper End Pushing Guide HP Sensor (PS122) to the Finisher Controller PCB - Harnesses from the Paper End Pushing Guide Motor (M112) to the Finisher Controller PCB - Paper End Pushing Guide HP Sensor (PS122) - Paper End Pushing Guide Motor (M112) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E57B-8002-02	Error in the Paper End Pushing Guide Motor (Finisher-Y1)
Detection Description	The Paper End Pushing Guide HP Sensor does not detect the paper end pushing guide when the Paper End Pushing Guide Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Paper End Pushing Guide HP Sensor (PS122) to the Finisher Controller PCB - Harnesses from the Paper End Pushing Guide Motor (M112) to the Finisher Controller PCB - Paper End Pushing Guide HP Sensor (PS122) - Paper End Pushing Guide Motor (M112) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E583-8001-02	Error in the Tray Auxiliary Guide Motor (Finisher-Y1)
Detection Description	The tray auxiliary guides don't come off the Front/Rear Tray Auxiliary Guide HP Sensors when the Tray Auxiliary Guide Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Front Tray Auxiliary Guide HP Sensor (PS117) to the Finisher Controller PCB - Harnesses from the Rear Tray Auxiliary Guide HP Sensor (PS118) to the Finisher Controller PCB - Harnesses from the Tray Auxiliary Guide Motor (M109) to the Finisher Controller PCB - Front Tray Auxiliary Guide HP Sensor (PS117) - Rear Tray Auxiliary Guide HP Sensor (PS118) - Tray Auxiliary Guide Motor (M109) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E583-8002-02	Error in the Tray Auxiliary Guide Motor (Finisher-Y1)
Detection Description	The Front/Rear Tray Auxiliary Guide HP Sensors don't detect the tray auxiliary guides when the Tray Auxiliary Guide Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Front Tray Auxiliary Guide HP Sensor (PS117) to the Finisher Controller PCB - Harnesses from the Rear Tray Auxiliary Guide HP Sensor (PS118) to the Finisher Controller PCB - Harnesses from the Tray Auxiliary Guide Motor (M109) to the Finisher Controller PCB - Front Tray Auxiliary Guide HP Sensor (PS117) - Rear Tray Auxiliary Guide HP Sensor (PS118) - Tray Auxiliary Guide Motor (M109) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E590-0002-02	Error in the Punch (Inner Puncher-B1)
Detection Description	The Puncher does not come on the Punch HP Sensor after driving stopped during initialization. The Punch HP Sensor does not detect the punch when the Punch Motor has been driven for 0.4 seconds for returning the punch after the punch jam.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Punch HP Sensor 1 (S5) to the Puncher Relay PCB - Harnesses from the Punch HP Sensor 2 (S6) to the Puncher Relay PCB - Harnesses from the Punch Motor Clock Sensor (S7) to the Puncher Relay PCB - Harnesses from the Punch Motor (M2) to the Puncher Relay PCB - Punch HP Sensor 1 (S5) - Punch HP Sensor 2 (S6) - Punch Motor Clock Sensor (S7) - Punch Motor (M2) - Puncher Relay PCB (PCB5) - Puncher Controller PCB (PCB1) - Finisher Controller PCB (PCB1) <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] When replacing the Puncher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E590-8001-02**a. Error in the Punch (Inner Puncher-B1) b. Error in the Punch Motor (Puncher Unit-A1)****Detection Description**

- a. The punch does not come off the Punch HP Sensor when the Punch Motor has been driven for 0.2 seconds.
- b. The punch does not come off the Punch HP Sensor when the Punch Motor has been driven for 0.2 seconds.

Remedy

[Related parts]

a. INNER PUNCH-B1

- Harnesses from the Punch HP Sensor 1 (S5) to the Puncher Relay PCB
- Harnesses from the Punch HP Sensor 2 (S6) to the Puncher Relay PCB
- Harnesses from the Punch Motor Clock Sensor (S7) to the Puncher Relay PCB
- Harnesses from the Punch Motor (M2) to the Puncher Relay PCB
- Punch HP Sensor 1 (S5)
- Punch HP Sensor 2 (S6)
- Punch Motor Clock Sensor (S7)
- Punch Motor (M2)
- Puncher Relay PCB (PCB5)
- Puncher Controller PCB (PCB1)
- Finisher Controller PCB (PCB1)

b. PUNCHER UNIT-A1

- Harnesses from the Punch HP Sensor 1 (PS303) to the Puncher Relay PCB
- Harnesses from the Punch HP Sensor 2 (PS304) to the Puncher Relay PCB
- Harnesses from the Punch Motor Clock Sensor (PS305) to the Puncher Relay PCB
- Harnesses from the Punch Motor (M301) to the Puncher Relay PCB
- Punch HP Sensor 1 (PS303)
- Punch HP Sensor 2 (PS304)
- Punch Motor Clock Sensor (PS305)
- Punch Motor (M301)
- Puncher Relay PCB (PCB302)
- Puncher Controller PCB (PCB301)
- Finisher Controller PCB (PCB101)

[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed.

Accordingly, perform the following work before checking the related parts.

1. Check whether there is not the malfunction in the swing guide unit.
2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102).

*: Distinguishing Between the New/Old Types

New Type (J132: Short Connector)

Old Type (J132: Swing Guide Safety Switch (SW102))

[Remedy] Check/replace the related harness/cable, connector and parts.

[Reference] When replacing the Puncher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.

[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.

E590-8002-02	Error in the Punch Motor (Puncher Unit-A1)
Detection Description	<p>The Punch HP Sensor does not detect the punch during initialization. The Punch HP Sensor does not detect the punch when the Punch Motor has been driven for 0.4 seconds for returning the punch after the punch jam.</p>
Remedy	<p>Puncher Unit-A1 [Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Punch HP Sensor 1 (PS303) to the Puncher Relay PCB - Harnesses from the Punch HP Sensor 2 (PS304) to the Puncher Relay PCB - Harnesses from the Punch Motor Clock Sensor (PS305) to the Puncher Relay PCB - Harnesses from the Punch Motor (M301) to the Puncher Relay PCB - Punch HP Sensor 1 (PS303) - Punch HP Sensor 2 (PS304) - Punch Motor Clock Sensor (PS305) - Punch Motor (M301) - Puncher Relay PCB (PCB302) - Puncher Controller PCB (PCB301) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Puncher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E593-0001-02	Error in the Punch Horizontal Registration Motor (Inner Puncher-B1)
Detection Description	<p>The punch unit does not come off the Horizontal Registration HP Sensor when shifting the punch unit by 9mm toward rear.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Horizontal Registration HP Sensor (S1) to the Puncher Controller PCB - Harnesses from the Punch Horizontal Registration Motor (M1) to the Puncher Controller PCB - PHorizontal Registration HP Sensor (S1) - Punch Horizontal Registration Motor (M1) - Puncher Controller PCB (PCB1) - Finisher Controller PCB (PCB1) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Puncher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E593-0002-02	Error in the Punch Horizontal Registration Motor (Inner Puncher-B1)
Detection Description	The Horizontal Registration HP Sensor does not detect the punch unit when shifting the punch unit by 37mm toward rear.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Horizontal Registration HP Sensor (S1) to the Puncher Controller PCB - Harnesses from the Punch Horizontal Registration Motor (M1) to the Puncher Controller PCB - PHorizontal Registration HP Sensor (S1) - Punch Horizontal Registration Motor (M1) - Puncher Controller PCB (PCB1) - Finisher Controller PCB (PCB1) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Puncher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E593-8001-02	Error in the Punch Shift Motor (Puncher Unit-A1)
Detection Description	The punch unit does not come off the Punch Slide HP Sensor when shifting the punch unit by 9mm toward rear.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Punch Slide HP Sensor (PS302) to the Puncher Controller PCB - Harnesses from the Punch Shift Motor (M302) to the Puncher Controller PCB - Punch Slide HP Sensor (PS302) - Punch Shift Motor (M302) - Puncher Controller PCB (PCB301) - Finisher Controller PCB (PCB101) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Puncher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E593-8002-02	Error in the Punch Shift Motor (Puncher Unit-A1)
Detection Description	The Punch Slide HP Sensor does not detect the punch unit when shifting the punch unit by 37mm toward front.
Remedy	<p>Puncher Unit-A1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Punch Slide HP Sensor (PS302) to the Puncher Controller PCB - Harnesses from the Punch Shift Motor (M302) to the Puncher Controller PCB - Punch Slide HP Sensor (PS302) - Punch Shift Motor (M302) - Puncher Controller PCB (PCB301) - Finisher Controller PCB (PCB101) <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Puncher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E5F0-8001-02	Error in the Saddle Paper End Stopper Motor (Finisher-Y1)
<p>Detection Description</p> <p>The saddle paper end stopper does not come off the Saddle Paper End Stopper HP Sensor when the Saddle Paper End Stopper Motor has been driven for 1 second.</p> <p>Remedy</p>	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Saddle Paper End Stopper HP Sensor (PS210) to the Saddle Stitcher Controller PCB - Harnesses from the Saddle Paper End Stopper Motor (M206) to the Saddle Stitcher Controller PCB - Saddle Paper End Stopper HP Sensor (PS210) - Saddle Paper End Stopper Motor (M206) - Saddle Stitcher Controller PCB (PCB201) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E5F0-8002-02	Error in the Saddle Paper End Stopper Motor (Finisher-Y1)
<p>Detection Description</p> <p>The Saddle Paper End Stopper HP Sensor does not detect the saddle paper end stopper when the Saddle Paper End Stopper Motor has been driven for 4 seconds.</p> <p>Remedy</p>	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Saddle Paper End Stopper HP Sensor (PS210) to the Saddle Stitcher Controller PCB - Harnesses from the Saddle Paper End Stopper Motor (M206) to the Saddle Stitcher Controller PCB - Saddle Paper End Stopper HP Sensor (PS210) - Saddle Paper End Stopper Motor (M206) - Saddle Stitcher Controller PCB (PCB201) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E5F1-8003-02	Saddle Delivery Motor clock error (Finisher-Y1)
Detection Description	The lock state of Saddle Delivery Motor is detected 0.2 seconds or more while the motor operates.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Saddle Delivery Motor Clock Sensor (PS211) to the Saddle Stitcher Controller PCB - Harnesses from the Saddle Delivery Motor (M207) to the Saddle Stitcher Controller PCB - Saddle Delivery Motor Clock Sensor (PS211) - Saddle Delivery Motor (M207) - Saddle Stitcher Controller PCB (PCB201) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E5F3-8001-02	Error in the Saddle Alignment Motor (Finisher-Y1)
Detection Description	The saddle alignment plate does not come off the Saddle Alignment HP Sensor when the Saddle Alignment Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Saddle Alignment HP Sensor (PS207) to the Saddle Stitcher Controller PCB - Harnesses from the Saddle Alignment Motor (M203) to the Saddle Stitcher Controller PCB - Saddle Alignment HP Sensor (PS207) - Saddle Alignment Motor (M203) - Saddle Stitcher Controller PCB (PCB201) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E5F3-8002-02	Error in the Saddle Alignment Motor (Finisher-Y1)
Detection Description	The Saddle Alignment HP Sensor does not detect the saddle alignment plate when the Saddle Alignment Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Saddle Alignment HP Sensor (PS207) to the Saddle Stitcher Controller PCB - Harnesses from the Saddle Alignment Motor (M203) to the Saddle Stitcher Controller PCB - Saddle Alignment HP Sensor (PS207) - Saddle Alignment Motor (M203) - Saddle Stitcher Controller PCB (PCB201) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E5F4-8001-02	Error in the Saddle Stitcher Motor (Finisher-Y1)
Detection Description	The saddle stitcher does not come off the Saddle Stitcher HP Sensor when the Saddle Stitcher Motor has been driven for 1.2 seconds.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Saddle Stitcher HP Sensor (PS215) to the Saddle Stitcher Controller PCB - Harnesses from the Saddle Stitcher Motor (M208) to the Saddle Stitcher Controller PCB - Saddle Stitcher HP Sensor (PS215) - Saddle Stitcher Motor (M208) - Saddle Stitcher Controller PCB (PCB201) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E5F4-8002-02	Error in the Saddle Stitcher Motor (Finisher-Y1)
Detection Description	The Saddle Stitcher HP Sensor does not detect the saddle stitcher when the Saddle Stitcher Motor has been driven for 1.2 seconds.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Saddle Stitcher HP Sensor (PS215) to the Saddle Stitcher Controller PCB - Harnesses from the Saddle Stitcher Motor (M208) to the Saddle Stitcher Controller PCB - Saddle Stitcher HP Sensor (PS215) - Saddle Stitcher Motor (M208) - Saddle Stitcher Controller PCB (PCB201) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E5F6-8001-02	Error in the Saddle Paper Pushing Plate/Folding Motor (Finisher-Y1)
Detection Description	The saddle paper pushing plate does not come off the Saddle Paper Pushing Plate HP Sensor when the Saddle Paper Pushing Plate/Folding Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Saddle Paper Pushing Plate HP Sensor (PS208) to the Saddle Stitcher Controller PCB - Harnesses from the Saddle Paper Pushing Plate/Folding Motor (M204) to the Saddle Stitcher Controller PCB - Saddle Paper Pushing Plate HP Sensor (PS208) - Saddle Paper Pushing Plate/Folding Motor (M204) - Saddle Stitcher Controller PCB (PCB201) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E5F6-8002-02	Error in the Saddle Paper Pushing Plate/Folding Motor (Finisher-Y1)
<p>Detection Description</p> <p>The Saddle Paper Pushing Plate HP Sensor does not detect the saddle paper pushing plate when the Saddle Paper Pushing Plate/Folding Motor has been driven for 3 seconds.</p>	<p>Remedy</p> <p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Saddle Paper Pushing Plate HP Sensor (PS208) to the Saddle Stitcher Controller PCB - Harnesses from the Saddle Paper Pushing Plate/Folding Motor (M204) to the Saddle Stitcher Controller PCB - Saddle Paper Pushing Plate HP Sensor (PS208) - Saddle Paper Pushing Plate/Folding Motor (M204) - Saddle Stitcher Controller PCB (PCB201) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types</p> <p>New Type (J132: Short Connector)</p> <p>Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E5F6-8003-02	Saddle Paper Pushing Plate/Folding Motor clock error (Finisher-Y1)
<p>Detection Description</p> <p>The lock state of Saddle Paper Pushing Plate/Folding Motor is detected 0.2 seconds or more while the motor operates.</p>	<p>Remedy</p> <p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Saddle Paper Pushing Plate/Folding Motor Clock Sensor (PS212) to the Saddle Stitcher Controller PCB - Harnesses from the Saddle Paper Pushing Plate/Folding Motor (M204) to the Saddle Stitcher Controller PCB - Saddle Paper Pushing Plate/Folding Motor Clock Sensor (PS212) - Saddle Paper Pushing Plate/Folding Motor (M204) - Saddle Stitcher Controller PCB (PCB201) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types</p> <p>New Type (J132: Short Connector)</p> <p>Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E5F8-8001-02	Error in the Saddle Switching Lever Motor (Finisher-Y1)
Detection Description	The saddle switching lever does not come off the Saddle Switching Lever HP Sensor when the Saddle Switching Lever Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Saddle Switching Lever HP Sensor (PS205) to the Saddle Stitcher Controller PCB - Harnesses from the Saddle Switching Lever Motor (M202) to the Saddle Stitcher Controller PCB - Saddle Switching Lever HP Sensor (PS205) - Saddle Switching Lever Motor (M202) - Saddle Stitcher Controller PCB (PCB201) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E5F8-8002-02	Error in the Saddle Switching Lever Motor (Finisher-Y1)
Detection Description	The Saddle Switching Lever HP Sensor does not detect the saddle switching lever when the Saddle Switching Lever Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Saddle Switching Lever HP Sensor (PS205) to the Saddle Stitcher Controller PCB - Harnesses from the Saddle Switching Lever Motor (M202) to the Saddle Stitcher Controller PCB - Saddle Switching Lever HP Sensor (PS205) - Saddle Switching Lever Motor (M202) - Saddle Stitcher Controller PCB (PCB201) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>

E5FA-8001-02	Error in the Saddle Gripper Motor (Finisher-Y1)
Detection Description	The saddle gripper does not come off the Saddle Gripper HP Sensor when the Saddle Gripper Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Saddle Gripper HP Sensor (PS209) to the Saddle Stitcher Controller PCB - Harnesses from the Saddle Gripper Motor (M205) to the Saddle Stitcher Controller PCB - Saddle Gripper HP Sensor (PS209) - Saddle Gripper Motor (M205) - Saddle Stitcher Controller PCB (PCB201) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E5FA-8002-02	Error in the Saddle Gripper Motor (Finisher-Y1)
Detection Description	The Saddle Gripper HP Sensor does not detect the saddle gripper when the Saddle Gripper Motor has been driven for 1 second.
Remedy	<p>STAPLE FIN-Y1/BOOKLET FIN-Y1</p> <p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Saddle Gripper HP Sensor (PS209) to the Saddle Stitcher Controller PCB - Harnesses from the Saddle Gripper Motor (M205) to the Saddle Stitcher Controller PCB - Saddle Gripper HP Sensor (PS209) - Saddle Gripper Motor (M205) - Saddle Stitcher Controller PCB (PCB201) - Finisher Controller PCB (PCB101) <p>[Points to note at work] Perform this work only for old type*. When the Swing Guide Safety Switch (SW102) turns on at the detection timing of this error, this error code may be displayed. Accordingly, perform the following work before checking the related parts.</p> <ol style="list-style-type: none"> 1. Check whether there is not the malfunction in the swing guide unit. 2. Check whether there is not the malfunction in the Swing Guide Safety Switch (SW102). <p>*: Distinguishing Between the New/Old Types New Type (J132: Short Connector) Old Type (J132: Swing Guide Safety Switch (SW102))</p> <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] When replacing the Finisher Controller PCB, refer to "Adjustment> When Replacing the Parts" in the Service Manual.</p>
E602-0001-00	HDD error
Detection Description	<p>HDD failed to be Ready, or HDD was not formatted.</p> <p>When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 3. Reinstall the system software using SST or a USB flash drive. 4. Check/replace the related parts.

E602-0015-00	HDD error
Detection Description	There was no file for downloading image coefficient.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Enter safe mode using (2+8) startup, and execute [4] Clear/Format> [1] Disk Format (HDD format) using SST or a USB flash drive. <p>[Reference] All data in the HDD is deleted.</p> <ol style="list-style-type: none"> 3. Back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual, and then replace the HDD.
E602-0020-00	HDD error
Detection Description	Corruption of database managing user mode/service mode data was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - HDD <p>[Remedy]</p> <p>While this error occurs, backup of the setting values is disabled. In addition, it may not be recorded in the error log. Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Turn OFF and then ON the main power. 2. Enter safe mode using (2+8) startup, and format the HDD using a USB flash drive. 3. Replace the HDD.
E602-0101-00	HDD error
Detection Description	<p>An error was detected in the PDL-related file storage area. (Initialization failed at startup or I/O error at startup)</p> <p>When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "1", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "1", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>

E602-0111-00	HDD error
Detection Description	An error was detected in the PDL-related file storage area. (File could not be written in the HDD after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "1", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "1", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>
E602-0201-00	HDD error
Detection Description	<p>An error was detected in the storage area of image data after startup. (Initialization failed at startup or I/O error at startup)</p> <p>When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "2", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "2", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>

E602-0211-00	HDD error
Detection Description	An error was detected in the storage area of image data after startup. (File could not be written in the HDD after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "2", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "2", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>
E602-0301-00	HDD error
Detection Description	<p>An error was detected in the MEAP-related area. (Initialization failed at startup or I/O error at startup)</p> <p>When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "3", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "3", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>

E602-0311-00	HDD error
Detection Description	An error was detected in the MEAP-related area. (File could not be written in the HDD after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "3", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "3", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>
E602-0401-00	HDD error
Detection Description	Logical partition error was detected. (Initialization failed at startup or I/O error at startup) When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "4", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "4", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to the error, enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>

E602-0411-00	HDD error
Detection Description	Logical partition error was detected. (File could not be written in the HDD after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "4", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "4", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to the error, enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>
E602-0501-00	HDD error
Detection Description	<p>An error was detected in the storage area of image data after startup. (Initialization failed at startup or I/O error at startup)</p> <p>When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "5", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "5", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>

E602-0511-00	HDD error
Detection Description	An error was detected in the storage area of image data after startup. (File could not be written in the HDD after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "5", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "5", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>
E602-0601-00	HDD error
Detection Description	<p>An error was detected in the storage area of image data after startup. (Initialization failed at startup or I/O error at startup)</p> <p>When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "6", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "6", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>

E602-0611-00	HDD error
Detection Description	An error was detected in the storage area of image data after startup. (File could not be written in the HDD after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "6", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "6", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>
E602-0701-00	HDD error
Detection Description	<p>An error was detected in general application temporary area (temporary file). (Initialization failed at startup or I/O error at startup)</p> <p>When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "7", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "7", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>

E602-0711-00	HDD error
Detection Description	An error was detected in general application temporary area (temporary file). (File could not be written in the HDD after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "7", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "7", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>
E602-0801-00	HDD error
Detection Description	<p>An error was detected in the general application-related area. (Initialization failed at startup or I/O error at startup)</p> <p>When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "8", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "8", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>

E602-0811-00	HDD error
Detection Description	An error was detected in the general application-related area. (File could not be written in the HDD after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "8", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "8", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>
E602-0901-00	HDD error
Detection Description	<p>An error was detected in PDL spool data (temporary file). (Initialization failed at startup or I/O error at startup)</p> <p>When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "9", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "9", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>

E602-0911-00	HDD error
Detection Description	An error was detected in PDL spool data (temporary file). (File could not be written in the HDD after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "9", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "9", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>
E602-1001-00	HDD error
Detection Description	<p>An error was detected in the SEND-related area. (Initialization failed at startup or I/O error at startup)</p> <p>When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "10", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "10", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>

E602-1011-00	HDD error
Detection Description	An error was detected in the SEND-related area. (File could not be written in the HDD after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "10", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "10", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>
E602-1101-00	HDD error
Detection Description	<p>An error was detected in the update-related area. (Initialization failed at startup or I/O error at startup)</p> <p>When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "11", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "11", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>

E602-1111-00	HDD error
Detection Description	An error was detected in the update-related area. (File could not be written in the HDD after startup or I/O error after startup)
Remedy	<p data-bbox="443 237 603 268">[Related parts]</p> <ul data-bbox="443 271 1059 360" style="list-style-type: none"> <li data-bbox="443 271 1059 302">- Harness between the Main Controller PCB and the HDD <li data-bbox="443 304 512 336">- HDD <li data-bbox="443 338 679 369">- Main Controller PCB <p data-bbox="443 371 1477 439">[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p data-bbox="443 441 1477 508">Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol data-bbox="443 510 1477 801" style="list-style-type: none"> <li data-bbox="443 510 983 542">1. Check the related harness/cable and connector. <li data-bbox="443 544 1477 611">2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "11", and execute "HD-CHECK". Then, turn OFF and then ON the main power. <li data-bbox="443 613 1477 680">3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. <li data-bbox="443 683 1477 750">4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "11", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. <li data-bbox="443 752 1477 819">5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. <li data-bbox="443 822 815 853">6. Check/replace the related parts. <p data-bbox="443 855 1477 875">[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>
E602-1201-00	HDD error
Detection Description	<p data-bbox="443 940 1477 1008">An error was detected in the license-related area. (Initialization failed at startup or I/O error at startup)</p> <p data-bbox="443 1010 1477 1061">When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p data-bbox="443 1068 603 1099">[Related parts]</p> <ul data-bbox="443 1102 1059 1191" style="list-style-type: none"> <li data-bbox="443 1102 1059 1133">- Harness between the Main Controller PCB and the HDD <li data-bbox="443 1135 512 1167">- HDD <li data-bbox="443 1169 679 1200">- Main Controller PCB <p data-bbox="443 1202 1477 1270">[Remedy] Perform the following in the order while checking whether the error is cleared. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 5.</p> <ol data-bbox="443 1272 1477 1518" style="list-style-type: none"> <li data-bbox="443 1272 983 1303">1. Check the related harness/cable and connector. <li data-bbox="443 1305 1321 1337">2. Turn OFF and then ON the main power, and check whether the error is cleared. <li data-bbox="443 1339 1477 1406">3. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "12", and execute "HD-CHECK". Then, turn OFF and then ON the main power. <li data-bbox="443 1408 1477 1476">4. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. <li data-bbox="443 1478 1433 1509">5. Enter safe mode using (2+8) startup, and format the HDD using SST or a USB flash drive. <li data-bbox="443 1512 815 1543">6. Check/replace the related parts. <p data-bbox="443 1545 1477 1576">[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>

E602-1211-00	HDD error
Detection Description	An error was detected in the license-related area. (File could not be written in the HDD after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 5.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Turn OFF and then ON the main power, and check whether the error is cleared. 3. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "12", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 4. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 5. Enter safe mode using (2+8) startup, and format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>
E602-1301-00	HDD error
Detection Description	An error was detected in the system area. (Initialization failed at startup or I/O error at startup) When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 5.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Turn OFF and then ON the main power, and check whether the error is cleared. 3. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "13", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 4. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 5. Enter safe mode using (2+8) startup, and format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>
E602-1311-00	HDD error
Detection Description	An error was detected in the system area. (File could not be written in the HDD after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 5.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Turn OFF and then ON the main power, and check whether the error is cleared. 3. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "13", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 4. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 5. Enter safe mode using (2+8) startup, and format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>

E602-1371-00	System verification error
Detection Description	At startup, a verification error occurred due to invalid data of a MEAP login application.
Remedy	<p>[Remedy]</p> <ol style="list-style-type: none"> 1. Set the following service mode setting value to 1: COPIIER > OPTION > USER > MEAPSAFE 2. Turn OFF and then ON the main power. 3. Reinstall the corresponding MEAP application from RUI. <p>[Caution]</p> <p>After performing the remedy work, return the MEAPSAFE value to 0 and turn OFF and then ON the main power.</p>
E602-1372-00	Verification error by "Falsification detection at startup" function
Detection Description	At startup, a verification error occurred due to invalid data in the MEAP area.
Remedy	<p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Turn OFF and then ON the main power, and check whether the error is cleared. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "13", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain necessary backup data referring to "Appendix > Backup Data List" in System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "13", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. Re-install MEAP application(s) via RUI and restore the backup data. <p>[Reference]</p> <p>Restore the backup data if the data has been deleted.</p>
E602-1401-00	HDD error
Detection Description	<p>An error was detected in SWAP (temporary file/alternative memory area). (Initialization failed at startup or I/O error at startup)</p> <p>When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "14", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "14", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>

E602-1411-00	HDD error
Detection Description	An error was detected in SWAP (temporary file/alternative memory area). (File could not be written in the HDD after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "14", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "14", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>
E602-1701-00	HDD error
Detection Description	An error was detected in the debug log area. (Initialization failed at startup or I/O error at startup) When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "17", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "17", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. Enter safe mode using (2+8) startup, and format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>

E602-1711-00	HDD error
Detection Description	An error was detected in the debug log area. (File could not be written in the HDD after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "17", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "17", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>
E602-1801-00	HDD error
Detection Description	<p>An error was detected in the image data storage area in Advanced Box. (Initialization failed at startup or I/O error at startup)</p> <p>When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "18", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "18", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. Enter safe mode using (2+8) startup, and format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>

E602-1811-00	HDD error
Detection Description	An error was detected in the image data storage area in Advanced Box. (File could not be written in the HDD after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "18", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "18", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. Enter safe mode using (2+8) startup, and format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>
E602-1901-00	HDD error
Detection Description	<p>An error was detected in the storage area of data for printing. (Initialization failed at startup or I/O error at startup)</p> <p>When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "19", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "19", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. Enter safe mode using (2+8) startup, and format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>

E602-1911-00	HDD error
Detection Description	An error was detected in the storage area of data for printing. (File could not be written in the HDD after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "19", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "19", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. If the above-mentioned service mode cannot be executed due to an error, etc., enter safe mode using (2+8) startup. Then format the HDD using SST or a USB flash drive. 6. Check/replace the related parts. <p>[Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.</p>
E602-2000-00	HDD error
Detection Description	I/O error was detected in the file system after startup.
Remedy	<p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check that the HDD optional board is properly installed. 2. Turn ON the main power, and check whether the error is cleared. 3. Execute the key clear using SST (to make an unformatted disk). <p>[CAUTION] E602-0001 will be indicated if activating the machine with the unformatted disk. Therefore, be sure to format the HDD.</p> <ol style="list-style-type: none"> 4. Enter safe mode using (2+8) startup, and format the HDD using SST or a USB flash drive.
E602-2001-00	HDD error
Detection Description	Mismatch on encryption operation
Remedy	<p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Check that the Main Controller PCB is installed properly. 2. Turn ON the main power, and check whether the error is cleared. 3. Execute the key clear using SST (to make an unformatted disk). <p>[CAUTION] E602-0001 will be indicated if activating the machine with the unformatted disk. Therefore, be sure to format the HDD.</p> <ol style="list-style-type: none"> 4. Enter safe mode using (2+8) startup, and format the HDD using SST or a USB flash drive.
E602-2002-00	HDD error
Detection Description	Failure of encryption board and others
Remedy	<p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Turn ON the main power, and check whether the error is cleared. 2. Execute the key clear using SST (to make an unformatted disk). <p>[CAUTION] E602-0001 will be indicated if activating the machine with the unformatted disk. Therefore, be sure to format the HDD.</p> <ol style="list-style-type: none"> 3. Enter safe mode using (2+8) startup, and format the HDD using SST or a USB flash drive. 4. Replace the Main Controller PCB.
E602-5001-00	Encryption Chip error
Detection Description	Error of the encryption chip on the Main Controller
Remedy	<p>[Related parts] Main Controller PCB</p> <p>[Remedy] Replace the Main Controller PCB</p>

E602-5002-00	HDD error
Detection Description	A non-genuine HDD was detected.
Remedy	[Remedy] 1. Replace the HDD with a genuine one. [Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual. 2. Format the HDD using SST or a USB flash drive.
E602-FF01-00	HDD error
Detection Description	An unidentified HDD error was detected at startup. When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	[Related parts] - Main Controller PCB - HDD [Reference] For backup and restoration, refer to "Appendix> Backup Data List" in the System Service Manual. [Remedy] Perform the following in the order while checking whether the error is cleared. 1. Check the related harness/cable and connector. 2. Format the HDD using SST or a USB flash drive. 3. Check/replace the related parts. [Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.
E602-FF11-00	HDD error
Detection Description	An unidentified HDD error was detected after startup.
Remedy	[Related parts] - Main Controller PCB - HDD [Reference] For backup and restoration, refer to "Appendix> Backup Data List" in the System Service Manual. [Remedy] Perform the following in the order while checking whether the error is cleared. 1. Check the related harness/cable and connector. 2. Format the HDD using SST or a USB flash drive. 3. Check/replace the related parts. [Reference] When replacing the HDD, back up the setting values by referring to "Chapter 5. Adjustment> Actions when Replacing the Parts> HDD" in the Service Manual.
E604-0512-00	Faulty/insufficient image memory
Detection Description	No necessary memory at Main Controller PCB
Remedy	[Remedy] Check/replace the Main Controller PCB
E604-1024-00	Faulty/insufficient image memory
Detection Description	No necessary memory at Main Controller PCB
Remedy	[Remedy] Check/replace the Main Controller PCB
E604-1536-00	Faulty/insufficient image memory
Detection Description	No necessary memory at Main Controller PCB
Remedy	[Remedy] Check/replace the Main Controller PCB
E613-0512-00	Faulty/insufficient image memory
Detection Description	No necessary memory at Main Controller PCB
Remedy	[Remedy] Check/replace the Main Controller PCB
E613-1024-00	Faulty/insufficient image memory
Detection Description	No necessary memory at Main Controller PCB
Remedy	[Remedy] Check/replace the Main Controller PCB

E613-1536-00	Faulty/insufficient image memory
Detection Description	No necessary memory at Main Controller PCB
Remedy	[Remedy] Check/replace the Main Controller PCB
E614-0001-00	Flash PCB error
Detection Description	The Flash PCB could not be recognized, or the Flash PCB was not formatted.
Remedy	[Related parts] - Flash PCB - Main Controller PCB [Remedy] Perform the following in the order while checking whether the error is cleared. - Reinstall the necessary application software once the error is cleared. 1. After turning OFF the main power, remove and then install the Flash PCB again to check that it is installed properly. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 3. Replace the Main Controller PCB.
E614-0002-00	Error in system on the Flash PCB
Detection Description	The file system could not be initialized normally at startup. When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	[Related parts] - Flash PCB - Main Controller PCB [Reference] For backup and restoration, refer to "Appendix> Backup Data List" in the System Service Manual. [Remedy] Perform the following in the order while checking whether the error is cleared. - Reinstall the necessary application software once the error is cleared. 1. After turning OFF the main power, remove and then install the Flash PCB to check that it is installed properly. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 3. Replace the Main Controller PCB.
E614-0006-00	Error in system on the Flash PCB
Detection Description	Bootable was not found on the Flash PCB.
Remedy	[Related parts] - Flash PCB - Main Controller PCB [Remedy] Perform the following in the order while checking whether the error is cleared. - Reinstall the necessary application software once the error is cleared. 1. After turning OFF the main power, remove and then install the Flash PCB again to check that it is installed properly. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 3. Replace the Main Controller PCB.
E614-0071-00	System verification error
Detection Description	At normal startup, an error may occur due to invalid data of the firmware for startup. When this error occurs, the system has not been started normally. Therefore, it is not recorded in the error log.
Remedy	[Related parts] - Flash PCB [Remedy] Perform the following in the order while checking whether the error is cleared. 1. Start the machine in safe mode, and reinstall the system using SST or a USB flash drive. * [2]: Select Update (Overwrite all) to update the system. 2. Replace the FLASH PCB, and reinstall the system software using SST or a USB flash drive.

E614-0072-00	System verification error
Detection Description	At normal startup, an error may occur due to invalid data of the firmware for safe mode startup. When this error occurs, the system has not been started normally. Therefore, it is not recorded in the error log.
Remedy	[Related parts] - Flash PCB [Remedy] 1. Replace the Flash PCB and reinstall the system using SST or a USB flash drive.
E614-0073-00	System verification error
Detection Description	At startup in safe mode, an error may occur due to invalid data of the startup firmware. When this error occurs, the system has not been started normally. Therefore, it is not recorded in the error log.
Remedy	[Related parts] - Flash PCB [Remedy] 1. Replace the Flash PCB and reinstall the system using SST or a USB flash drive.
E614-0074-00	Start system verification function error
Detection Description	At startup in safe mode, an error may occur due to invalid data of the firmware for safe mode startup. When this error occurs, the system has not been started normally. Therefore, it is not recorded in the error log.
Remedy	[Related parts] - Flash PCB [Remedy] 1. Replace the Flash PCB and reinstall the system using SST or a USB flash drive.
E614-0101-00	Error in system on the Flash PCB
Detection Description	An error was detected in the system area. (Initialization failed at startup or I/O error at startup) When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	[Related parts] - Flash PCB - Main Controller PCB [Remedy] Perform the following in the order while checking whether the error is cleared. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4. 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "0", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 5. Replace the Main Controller PCB.
E614-0111-00	Error in system on the Flash PCB
Detection Description	An error was detected in the system area. (File could not be written in the Flash PCB after startup or I/O error after startup)
Remedy	[Related parts] - Flash PCB - Main Controller PCB [Remedy] Perform the following in the order while checking whether the error is cleared. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4. 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "0", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 5. Replace the Main Controller PCB.

E614-0201-00	Error in system on the Flash PCB
Detection Description	An error was detected in the system area. (Initialization failed at startup or I/O error at startup) When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flash PCB - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "0", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 5. Replace the Main Controller PCB.
E614-0211-00	Error in system on the Flash PCB
Detection Description	An error was detected in the system area. (File could not be written in the Flash PCB after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flash PCB - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "0", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 5. Replace the Main Controller PCB.
E614-0301-00	Error in system on the Flash PCB
Detection Description	An error was detected in the system area. (Initialization failed at startup or I/O error at startup) When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flash PCB - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "0", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 5. Replace the Main Controller PCB.

E614-0311-00	Error in system on the Flash PCB
Detection Description	An error was detected in the system area. (File could not be written in the Flash PCB after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flash PCB - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "0", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 5. Replace the Main Controller PCB.
E614-0401-00	Error in system on the Flash PCB
Detection Description	<p>Logical partition error was detected. (Initialization failed at startup or I/O error at startup)</p> <p>When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flash PCB - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 3. Replace the Main Controller PCB.
E614-0411-00	Error in system on the Flash PCB
Detection Description	Logical partition error was detected. (File could not be written in the Flash PCB after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flash PCB - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 3. Replace the Main Controller PCB.

E614-0501-00	Error in file system on the Flash PCB
Detection Description	<p>An error was detected in the general application-related area. (Initialization failed at startup or I/O error at startup)</p> <p>When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flash PCB - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "8", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "8", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. Enter safe mode using (2+8) startup, and reinstall the system software using SST or a USB flash drive. 6. Check/replace the related parts.
E614-0511-00	Error in file system on the Flash PCB
Detection Description	<p>An error was detected in the general application-related area. (File could not be written in the Flash PCB after startup or I/O error after startup)</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flash PCB - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "8", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "8", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. Enter safe mode using (2+8) startup, and reinstall the system software using SST or a USB flash drive. 6. Check/replace the related parts.
E614-0601-00	Error in system on the Flash PCB
Detection Description	<p>An error was detected in the license-related area. (Initialization failed at startup or I/O error at startup)</p> <p>When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flash PCB - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 3. Replace the Main Controller PCB.

E614-0611-00	Error in system on the Flash PCB
Detection Description	An error was detected in the license-related area. (File could not be written in the Flash PCB after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flash PCB - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 3. Replace the Main Controller PCB.
E614-0701-00	Error in file system on the Flash PCB
Detection Description	<p>An error was detected in system setting value (service mode, etc.) storage area. (Initialization failed at startup or I/O error at startup)</p> <p>When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.</p>
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flash PCB - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "8", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "8", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. Check/replace the related parts.
E614-0711-00	Error in file system on the Flash PCB
Detection Description	An error was detected in system setting value (service mode, etc.) storage area. (File could not be written in the Flash PCB after startup or I/O error after startup)
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Flash PCB - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared. When prioritizing clearing of the error, skip Remedies 2 and 3.</p> <p>Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 4.</p> <ol style="list-style-type: none"> 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "8", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "8", and execute "HD-CLEAR". Then, turn OFF and then ON the main power to delete the data in the corresponding partition. 5. Check/replace the related parts.

E614-4000-00	Error in system on the Flash PCB
Detection Description	The OS could not be recognized. When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	[Remedy] Perform the following in the order while checking whether the error is cleared. 1. After turning OFF the main power, remove and then install the Flash PCB again to check that it is installed properly. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 3. Check that the HDD and the cables are properly installed. 4. Enter safe mode using (2+8) startup, and format the HDD using SST or a USB flash drive. 5. If another error occurs, clear the error by performing the remedy for it. 6. Replace the Main Controller PCB.
E614-4001-00	Error in system on the Flash PCB
Detection Description	The OS boot file was not found. When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	[Remedy] Perform the following in the order while checking whether the error is cleared. 1. After turning OFF the main power, remove and then install the Flash PCB again to check that it is installed properly. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 3. Check that the HDD and the cables are properly installed. 4. Enter safe mode using (2+8) startup, and format the HDD using SST or a USB flash drive. 5. If another error occurs, clear the error by performing the remedy for it. 6. Replace the Main Controller PCB.
E614-4002-00	Error in system on the Flash PCB
Detection Description	The OS kernel was not found. When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	[Remedy] Perform the following in the order while checking whether the error is cleared. 1. After turning OFF the main power, remove and then install the Flash PCB again to check that it is installed properly. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 3. Check that the HDD and the cables are properly installed. 4. Enter safe mode using (2+8) startup, and format the HDD using SST or a USB flash drive. 5. If another error occurs, clear the error by performing the remedy for it. 6. Replace the Main Controller PCB.
E614-4003-00	Error in system on the Flash PCB
Detection Description	The OS boot loader was not found. When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	[Remedy] Perform the following in the order while checking whether the error is cleared. 1. After turning OFF the main power, remove and then install the Flash PCB again to check that it is installed properly. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 3. Check that the HDD and the cables are properly installed. 4. Enter safe mode using (2+8) startup, and format the HDD using SST or a USB flash drive. 5. If another error occurs, clear the error by performing the remedy for it. 6. Replace the Main Controller PCB.
E614-4010-00	Error in system on the Flash PCB
Detection Description	The OS in safe mode could not be recognized. When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	[Remedy] Perform the following in the order while checking whether the error is cleared. 1. After turning OFF the main power, remove and then install the Flash PCB again to check that it is installed properly. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive.

E614-4011-00	Error in system on the Flash PCB
Detection Description	The file for booting the OS in safe mode was not found. When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	[Remedy] Perform the following in the order while checking whether the error is cleared. 1. After turning OFF the main power, remove and then install the Flash PCB again to check that it is installed properly. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive.
E614-4012-00	Error in system on the Flash PCB
Detection Description	The kernel in safe mode was not found. When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	[Remedy] Perform the following in the order while checking whether the error is cleared. 1. After turning OFF the main power, remove and then install the Flash PCB again to check that it is installed properly. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive.
E614-9000-00	Error in system on the Flash PCB
Detection Description	SRAM device access-related error (at startup) When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	[Remedy] Perform the following in the order while checking whether the error is cleared. 1. After turning OFF the main power, remove and then install the Flash PCB again to check that it is installed properly. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive.
E614-9001-00	Error in system on the Flash PCB
Detection Description	Error in memory allocation/invalid memory (at startup) When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	[Remedy] Perform the following in the order while checking whether the error is cleared. 1. After turning OFF the main power, remove and then install the Flash PCB again to check that it is installed properly. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive.
E614-9002-00	Error in system on the Flash PCB
Detection Description	Setting file error was detected at startup. When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	[Remedy] Perform the following in the order while checking whether the error is cleared. 1. After turning OFF the main power, remove and then install the Flash PCB again to check that it is installed properly. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive.
E614-9003-00	Error in system on the Flash PCB
Detection Description	Parameter error was detected at startup. When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	[Remedy] Perform the following in the order while checking whether the error is cleared. 1. After turning OFF the main power, remove and then install the Flash PCB again to check that it is installed properly. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive.

E614-9004-00	Error in system on the Flash PCB
Detection Description	Startup error was detected. When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	[Remedy] Perform the following in the order while checking whether the error is cleared. 1. After turning OFF the main power, remove and then install the Flash PCB again to check that it is installed properly. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive.
E614-FF01-00	Error in system on the Flash PCB
Detection Description	An unidentified Flash error was detected at startup. (Initialization failed at startup or I/O error at startup) When this error occurs, the system has not been started normally. Therefore, it may not be recorded in the error log.
Remedy	[Related parts] - Flash PCB - Main Controller PCB [Remedy] Perform the following in the order while checking whether the error is cleared. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 5. 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "0", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 5. Replace the Main Controller PCB.
E614-FF11-00	Error in system on the Flash PCB
Detection Description	An unidentified Flash error was detected at startup. (File could not be written in the Flash PCB after startup or I/O error after startup)
Remedy	[Related parts] - Flash PCB - Main Controller PCB [Remedy] Perform the following in the order while checking whether the error is cleared. Although the error is cleared by "HD-CHECK", it may occur again. Thus, perform Remedies 1 to 5. 1. Check the related harness/cable and connector. 2. Select COPIER> FUNCTION> SYSTEM> CHK-TYPE> "0", and execute "HD-CHECK". Then, turn OFF and then ON the main power. 3. Obtain the necessary backup data by referring to "Appendix> Backup Data List" in the System Service Manual. 4. After replacing the Flash PCB, reinstall the system software using SST or a USB flash drive. 5. Replace the Main Controller PCB.
E615-0001-00	Error in self-diagnosis of the encryption module
Detection Description	An error was detected in self-diagnosis of the encryption library.
Remedy	[Remedy] Perform the following in the order while checking whether the error is cleared. - Reinstall the necessary application software and restore the backup data once the error is cleared. 1. After reinstalling the system software using SST or a USB memory, turn OFF and then ON the main power. 2. Obtain the necessary backup data by referring to the backup data list. 3. Enter safe mode using (2+8) startup, and execute [4] Clear/Format> [2] Flash Format (Flash format) using a USB memory. 4. After replacing the Flash PCB, reinstall the system software using SST or a USB memory. [Reference] For backup and restoration, refer to "Adjustment> Main Controller System" and "Appendix> Backup Data List" in the Service Manual.

E674-0001-07	Fax Board communication error
Detection Description	An error was detected for the specified number of times in communication with the Fax Board.
Remedy	[Related parts] - Harness between the Fax Board and the Riser PCB - Fax Board - Riser PCB - Main Controller PCB [Remedy] Check/replace the related harness/cable, connector and parts.
E674-0002-07	Fax Board communication error
Detection Description	An error was detected for the specified number of times in communication with the Fax Board.
Remedy	[Related parts] - Harness between the Fax Board and the Riser PCB - Fax Board - Riser PCB - Main Controller PCB [Remedy] Check/replace the related harness/cable, connector and parts.
E674-0004-07	Fax Board communication error
Detection Description	A communication error occurred when accessing the modem IC used for fax.
Remedy	[Related parts] - Harness between the Fax Board and the Riser PCB - Fax Board - Riser PCB - Main Controller PCB [Remedy] Check/replace the related harness/cable, connector and parts.
E674-0008-07	Fax Board communication error
Detection Description	A communication error occurred when accessing the port IC used for fax.
Remedy	[Related parts] - Harness between the Fax Board and the Riser PCB - Fax Board - Riser PCB - Main Controller PCB [Remedy] Check/replace the related harness/cable, connector and parts.
E674-0010-07	Fax Board communication error
Detection Description	A communication error occurred when opening the Timer Device used for fax.
Remedy	[Remedy] Check/replace the Main Controller PCB
E674-0011-07	Fax Board communication error
Detection Description	A communication error occurred when starting the Timer Device used for fax.
Remedy	[Remedy] Check/replace the Main Controller PCB
E674-0020-07	Fax Board communication error
Detection Description	An error occurred in the modem IC used for fax.
Remedy	[Related parts] - Harness between the Fax Board and the Riser PCB - Fax Board - Riser PCB - Main Controller PCB [Remedy] Check/replace the related harness/cable, connector and parts.
E674-0021-07	Fax Board communication error
Detection Description	A Fax Board for non-supported modem has been connected.
Remedy	[Remedy] Replace it with a genuine Fax Board (for 1-line, 2-line, or 3/4-line).
E674-0030-07	Fax Board communication error
Detection Description	Check sum error
Remedy	[Remedy] System software download for 2 line FAX

E674-0100-07	Fax Board communication error
Detection Description	After completion of fax communication, writing of the communication information (log) failed, and the log could not be read.
Remedy	[Remedy] Turn OFF and then ON the main power. If it occurs when the power is turned OFF and then ON after executing FAX > Clear > ALL, execute FAX > Clear > ALL and turn OFF and then ON the power again. [CAUTION] The previous communication information (log) will be cleared by turning OFF and then ON the main power.
E674-0300-07	Fax configuration error
Detection Description	It was detected that there was a Fax Board for multiple lines installed while the IP Fax license was enabled.
Remedy	[Remedy] - Remove the Fax Board for multiple lines to use the machine as an IP Fax model. - Uninstall the IP Fax license to use the machine as a G3 Fax model.
E674-0301-07	Fax configuration error
Detection Description	It was detected that there was no 1-line Fax Board installed while the IP Fax license was enabled.
Remedy	[Remedy] - Install the Fax Board (1-line) to use the machine as an IP Fax model. - Uninstall the IP Fax license and install the G3 Fax Board to use the machine as a G3 Fax model.
E677-0001-00	Print server error
Detection Description	Abnormality detected on the exhaust fan operation of printer server
Remedy	[Remedy] 1. Check supplying power to the exhaust fan 2. Exhaust fan replacement
E677-0003-00	Print server error
Detection Description	An error in the fan of the Print Server was detected.
Remedy	[Related parts] - Print Server Fan - Main Controller PCB [Remedy] Check/replace the related harness/cable, connector and parts.
E677-0004-00	Print server error
Detection Description	Abnormality detected on the CPU fan operation of printer server
Remedy	[Remedy] 1. Check supplying power to the CPU fan 2. CPU fan replacement
E677-0010-00	Print server error
Detection Description	Failure was detected in operation of the CPU fan on the print server.
Remedy	[Remedy] 1. Replace the board of the print server. 2. Reinstall the Print Server (For details, refer to "Service Manual image PASS P2.")
E677-0080-00	Print server error
Detection Description	Error is detected at the Mother Board check when print server is started.
Remedy	[Remedy] 1. Check the cable connection and turn OFF and then ON the power. 2. Reinstall the print server (For details, refer to "Service Manual image PASS P2.")

E713-0010-05	Finisher communication error
Detection Description	Timeout was detected in communication between the host machine and the finisher.
Remedy	<p>[Related parts]</p> <p>a. STAPLE/BOOKLET FINISHER-Y1</p> <ul style="list-style-type: none"> - Harnesses connecting the DC Controller PCB (UN1/J110), the Relay Path Unit and the Finisher Controller PCB - Harnesses connecting the Relay PCB (UN5/J403), the Relay Path Unit and the Finisher Controller PCB - DC Controller PCB (UN1) - Relay PCB (UN5) - Relay Path Unit - Finisher Controller PCB <p>b. INNER FINISHER-H1</p> <ul style="list-style-type: none"> - Harness between the DC Controller PCB (UN1/J110) and the Finisher Controller PCB - Harness between the Relay PCB (UN5/J403) and the Finisher Controller PCB - DC Controller PCB (UN1) - Relay PCB (UN5) - Finisher Controller PCB <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference]</p> <ul style="list-style-type: none"> - Before replacing the DC Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMBUP Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMRES - After replacement of the Finisher Controller PCB, refer to "Adjustments> Adjustment when Replacing the Parts" in the Service Manual for the Finisher.
E713-0011-05	Finisher communication error
Detection Description	Retransmission of NACK was detected consecutively in communication between the host machine and the finisher.
Remedy	<p>[Related parts]</p> <p>a. STAPLE/BOOKLET FINISHER-Y1</p> <ul style="list-style-type: none"> - Harnesses connecting the DC Controller PCB (UN1/J110), the Relay Path Unit and the Finisher Controller PCB - Harnesses connecting the Relay PCB (UN5/J403), the Relay Path Unit and the Finisher Controller PCB - DC Controller PCB (UN1) - Relay PCB (UN5) - Relay Path Unit - Finisher Controller PCB <p>b. INNER FINISHER-H1</p> <ul style="list-style-type: none"> - Harness between the DC Controller PCB (UN1/J110) and the Finisher Controller PCB - Harness between the Relay PCB (UN5/J403) and the Finisher Controller PCB - DC Controller PCB (UN1) - Relay PCB (UN5) - Finisher Controller PCB <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference]</p> <ul style="list-style-type: none"> - Before replacing the DC Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMBUP Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMRES - After replacement of the Finisher Controller PCB, refer to "Adjustments> Adjustment when Replacing the Parts" in the Service Manual for the Finisher.

E713-0020-05	Finisher communication error
Detection Description	Invalid BCC in received data was detected in communication between the host machine and the finisher.
Remedy	<p>[Related parts]</p> <p>a. STAPLE/BOOKLET FINISHER-Y1</p> <ul style="list-style-type: none"> - Harnesses connecting the DC Controller PCB (UN1/J110), the Relay Path Unit and the Finisher Controller PCB - Harnesses connecting the Relay PCB (UN5/J403), the Relay Path Unit and the Finisher Controller PCB - DC Controller PCB (UN1) - Relay PCB (UN5) - Relay Path Unit - Finisher Controller PCB <p>b. INNER FINISHER-H1</p> <ul style="list-style-type: none"> - Harness between the DC Controller PCB (UN1/J110) and the Finisher Controller PCB - Harness between the Relay PCB (UN5/J403) and the Finisher Controller PCB - DC Controller PCB (UN1) - Relay PCB (UN5) - Finisher Controller PCB <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference]</p> <ul style="list-style-type: none"> - Before replacing the DC Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. <p>Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMBUP Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMRES</p> <ul style="list-style-type: none"> - After replacement of the Finisher Controller PCB, refer to "Adjustments> Adjustment when Replacing the Parts" in the Service Manual for the Finisher.
E713-0021-05	Finisher communication error
Detection Description	Reception incomplete was detected consecutively in communication between the host machine and the finisher.
Remedy	<p>[Related parts]</p> <p>a. STAPLE/BOOKLET FINISHER-Y1</p> <ul style="list-style-type: none"> - Harnesses connecting the DC Controller PCB (UN1/J110), the Relay Path Unit and the Finisher Controller PCB - Harnesses connecting the Relay PCB (UN5/J403), the Relay Path Unit and the Finisher Controller PCB - DC Controller PCB (UN1) - Relay PCB (UN5) - Relay Path Unit - Finisher Controller PCB <p>b. INNER FINISHER-H1</p> <ul style="list-style-type: none"> - Harness between the DC Controller PCB (UN1/J110) and the Finisher Controller PCB - Harness between the Relay PCB (UN5/J403) and the Finisher Controller PCB - DC Controller PCB (UN1) - Relay PCB (UN5) - Finisher Controller PCB <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference]</p> <ul style="list-style-type: none"> - Before replacing the DC Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. <p>Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMBUP Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMRES</p> <ul style="list-style-type: none"> - After replacement of the Finisher Controller PCB, refer to "Adjustments> Adjustment when Replacing the Parts" in the Service Manual for the Finisher.

E713-0022-05	Finisher communication error
Detection Description	An undefined error was detected consecutively in communication between the host machine and the finisher.
Remedy	<p>[Related parts]</p> <p>a. STAPLE/BOOKLET FINISHER-Y1</p> <ul style="list-style-type: none"> - Harnesses connecting the DC Controller PCB (UN1/J110), the Relay Path Unit and the Finisher Controller PCB - Harnesses connecting the Relay PCB (UN5/J403), the Relay Path Unit and the Finisher Controller PCB - DC Controller PCB (UN1) - Relay PCB (UN5) - Relay Path Unit - Finisher Controller PCB <p>b. INNER FINISHER-H1</p> <ul style="list-style-type: none"> - Harness between the DC Controller PCB (UN1/J110) and the Finisher Controller PCB - Harness between the Relay PCB (UN5/J403) and the Finisher Controller PCB - DC Controller PCB (UN1) - Relay PCB (UN5) - Finisher Controller PCB <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference]</p> <ul style="list-style-type: none"> - Before replacing the DC Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. <p>Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMBUP Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMRES</p> <ul style="list-style-type: none"> - After replacement of the Finisher Controller PCB, refer to "Adjustments> Adjustment when Replacing the Parts" in the Service Manual for the Finisher.
E713-0030-05	Finisher communication error
Detection Description	An initialization error was detected in communication between the host machine and the finisher.
Remedy	<p>[Related parts]</p> <p>a. STAPLE/BOOKLET FINISHER-Y1</p> <ul style="list-style-type: none"> - Harnesses connecting the DC Controller PCB (UN1/J110), the Relay Path Unit and the Finisher Controller PCB - Harnesses connecting the Relay PCB (UN5/J403), the Relay Path Unit and the Finisher Controller PCB - DC Controller PCB (UN1) - Relay PCB (UN5) - Relay Path Unit - Finisher Controller PCB <p>b. INNER FINISHER-H1</p> <ul style="list-style-type: none"> - Harness between the DC Controller PCB (UN1/J110) and the Finisher Controller PCB - Harness between the Relay PCB (UN5/J403) and the Finisher Controller PCB - DC Controller PCB (UN1) - Relay PCB (UN5) - Finisher Controller PCB <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p> <p>[Reference]</p> <ul style="list-style-type: none"> - Before replacing the DC Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. <p>Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMBUP Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMRES</p> <ul style="list-style-type: none"> - After replacement of the Finisher Controller PCB, refer to "Adjustments> Adjustment when Replacing the Parts" in the Service Manual for the Finisher.

E719-0001-00	Error in Coin Vendor.
Detection Description	Error in starting of the CoinVendor - The Coin Vendor, which should have been connected before the power was turned OFF, is not connected when the power is turned ON.
Remedy	[Remedy] Check the connection between charging management equipment and machine, and check that the Cable is not open-circuit. Clear the error while the charging management equipment is connected to operate and when switching to the operation without charging management equipment. (To prevent the misuse by removing the charging management equipment, this error code is displayed.)
E719-0002-00	Error in Coin Vendor.
Detection Description	Error in IPC when CoinVendor is running. - In the case of disconnection of IPC or an error in which IPC communication failed to be recovered. - When disconnection of the pickup delivery signal is detected. - When illegal connection is detected (short-circuit with Tx and Rx of IPC)
Remedy	[Remedy] Check the connection between charging management equipment and machine, and check that the Cable is not open-circuit. Clear the error while the charging management equipment is connected to operate and when switching to the operation without charging management equipment. (To prevent the misuse by removing the charging management equipment, this error code is displayed.)
E719-0003-00	Error in Coin Vendor.
Detection Description	- In the case of communication error with the coin vendor while obtaining the unit price at start-up.
Remedy	[Remedy] Check the connection between charging management equipment and machine, and check that the Cable is not open-circuit. Clear the error while the charging management equipment is connected to operate and when switching to the operation without charging management equipment. (To prevent the misuse by removing the charging management equipment, this error code is displayed.)
E719-0004-00	Coin vendor error
Detection Description	The coin vendor was connected to a model that does not support the coin vendor
Remedy	[Remedy] 1. Disconnect the coin vendor
E719-0031-00	Error in serial communication at the start of the New Card Reader
Detection Description	Failure in communication with the serial New Card Reader at start-up.
Remedy	[Remedy] - Check if the cable of the serial New Card Reader is disconnected. - Take out the serial New Card Reader. - COPIER > Function > CLEAR > CARD - COPIER > Function > CLEAR > ERR
E719-0032-00	Error in serial communication at the start of the New Card Reader
Detection Description	Communication failed in the middle of the operation although communication with the serial New Card Reader was successful at start-up.
Remedy	[Remedy] - Check if the cable of the serial New Card Reader is disconnected.

E719-0041-00	Coin vendor error
Detection Description	Communication with the coin vendor could not be established at startup of the host machine. (Charge mode (COIN = 6) has been set.)
Remedy	[Remedy] 1. If it operates in charge mode (COIN = 6) - Check that it is the supported charging management equipment. - Check the cable to be connected. - Check the power of the charging management equipment. 2. If charge mode is canceled - Select COPIER> OPTION> ACC> COIN> "0", and turn OFF and then ON the main power.
E719-0042-00	Coin vendor error
Detection Description	Communication with the coin vendor could not be established at startup of the host machine. (Charge mode (COIN = 6) has been set.)
Remedy	[Remedy] 1. If it operates in charge mode (COIN = 6) - Check that it is the supported charging management equipment. - Check the cable to be connected. - Check the power of the charging management equipment. 2. If charge mode is canceled - Select COPIER> OPTION> ACC> COIN> "0", and turn OFF and then ON the main power.
E720-0001-05	Error due to non-compatible Finisher
Detection Description	Non-compatible Finisher was connected.
Remedy	[Remedy]Connect either the Staple Finisher-Y1 or Saddle Stitch Finisher-Y1.
E730-C001-00	Error in HDD access
Detection Description	An error occurred when accessing the HDD.
Remedy	[Related parts] - Harness between the Main Controller PCB and the HDD - HDD - Main Controller PCB [Remedy] Perform the following in the order while checking whether the error is cleared. 1. Format the HDD and reinstall the system software using SST or a USB flash drive. 2. Check/replace the related harness/cable, connector and parts.
E731-3000-00	Main Controller PCB error
Detection Description	Unable to recognize the SURF Board.
Remedy	[Remedy] Check/replace the Main Controller PCB
E731-3001-00	Main Controller PCB error
Detection Description	Failure of SURF initialization.
Remedy	[Remedy] Check/replace the Main Controller PCB
E731-3002-00	Main Controller PCB error
Detection Description	Failure of SURF initialization.
Remedy	[Remedy] Check/replace the Main Controller PCB
E731-3015-00	Main Controller PCB error
Detection Description	Video data is not transmitted to CL1-G even though there is no problem in the software.
Remedy	[Remedy] Check/replace the Main Controller PCB

E732-0001-00	Communication error
Detection Description	A communication error between the Reader Controller PCB and the Main Controller PCB was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Reader Controller PCB (UN_BO1) - Riser PCB - Main Controller PCB <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E732-0010-00	Communication error
Detection Description	A communication error between the Reader Controller PCB and the Main Controller PCB was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Reader Controller PCB (UN_BO1) - Riser PCB - Main Controller PCB <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E732-0020-00	Communication error
Detection Description	A communication error between the Reader Controller PCB and the Main Controller PCB was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Reader Controller PCB (UN_BO1) - Riser PCB - Main Controller PCB <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E732-0021-00	Communication error
Detection Description	A communication error between the Reader Controller PCB and the Main Controller PCB was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Reader Controller PCB (UN_BO1) - Riser PCB - Main Controller PCB <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES

E732-0022-00	Communication error
Detection Description	A communication error between the Reader Controller PCB and the Main Controller PCB was detected.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Reader Controller PCB (UN_BO1) - Riser PCB - Main Controller PCB <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E732-0023-04	Communication error
Detection Description	A communication error between the Reader Controller PCB and the Main Controller PCB was detected at startup/recovery from sleep.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Reader Controller PCB (UN_BO1) - Riser PCB - Main Controller PCB <p>[Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected.</p> <ul style="list-style-type: none"> - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E732-0F01-04	Communication error
Detection Description	Communication error that can be recovered by reboot If it is detected again immediately after reboot, E732-0001 is generated.
Remedy	It is not necessary to perform a remedy because the machine is automatically rebooted after log collection.
E732-0F20-00	Communication error
Detection Description	Communication error that can be recovered by reboot If it is detected again immediately after reboot, E732-0020 is generated.
Remedy	It is not necessary to perform a remedy because the machine is automatically rebooted after log collection.
E732-0F21-00	Communication error
Detection Description	Communication error that can be recovered by reboot If it is detected again immediately after reboot, E732-0021 is generated.
Remedy	It is not necessary to perform a remedy because the machine is automatically rebooted after log collection.
E732-0F22-00	Communication error
Detection Description	Communication error that can be recovered by reboot If it is detected again immediately after reboot, E732-0022 is generated.
Remedy	It is not necessary to perform a remedy because the machine is automatically rebooted after log collection.
E732-0F23-04	Communication error
Detection Description	Communication error that can be recovered by reboot If it is detected again immediately after reboot, E732-0023 is generated.
Remedy	It is not necessary to perform a remedy because the machine is automatically rebooted after log collection.

E732-8888-00	Communication error
Detection Description	Scanner for a different model was detected at communication with the Reader.
Remedy	[Remedy] Replace the Reader Unit with the one for this model.
E733-0000-05	Printer communication error
Detection Description	A communication error between the DC Controller PCB and the Main Controller PCB was detected at startup.
Remedy	[Related parts] - Harnesses between the DC Controller PCB (UN1/J100, J101) and the Riser PCB (J2, J10) - DC Controller PCB (UN1) - Riser PCB - Main Controller PCB [Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the DC Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMRES
E733-0001-05	Printer communication error
Detection Description	A communication error between the DC Controller PCB and the Main Controller PCB was detected.
Remedy	[Related parts] - Harnesses between the DC Controller PCB (UN1/J100, J101) and the Riser PCB (J2, J10) - DC Controller PCB (UN1) - Riser PCB - Main Controller PCB [Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the DC Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMRES
E733-0002-05	Printer communication error
Detection Description	Signal error was detected after establishment of communication between the DC Controller PCB and the Main Controller PCB.
Remedy	[Related parts] - Harnesses between the DC Controller PCB (UN1/J100, J101) and the Riser PCB (J2, J10) - DC Controller PCB (UN1) - Riser PCB - Main Controller PCB [Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the DC Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> DSRAMRES
E733-0F00-05	Printer communication error
Detection Description	Communication error that can be recovered by reboot If it is detected again immediately after reboot, E733-0000 is generated.
Remedy	It is not necessary to perform a remedy because the machine is automatically rebooted after log collection.
E733-0F01-05	Printer communication error
Detection Description	Communication error that can be recovered by reboot If it is detected again immediately after reboot, E733-0001 is generated.
Remedy	It is not necessary to perform a remedy because the machine is automatically rebooted after log collection.

E733-0F02-05	Printer communication error
Detection Description	Communication error that can be recovered by reboot If it is detected again immediately after reboot, E733-0002 is generated.
Remedy	It is not necessary to perform a remedy because the machine is automatically rebooted after log collection.
E733-9999-05	Printer communication error
Detection Description	The Finisher connection information error was detected between the DC Controller PCB and the Main Controller PCB.
Remedy	[Remedy] Turn OFF and then ON the main power.
E743-0000-04	Communication error
Detection Description	The Reader Controller PCB detected a communication error between the Main Controller PCB and the Reader Controller PCB.
Remedy	[Related parts] - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Reader Controller PCB (UN_BO1) - Riser PCB - Main Controller PCB [Remedy] Check/replace the related harness/cable, connector and parts. [Reference] Before replacing the Reader Controller PCB, back up the service mode data (approx. 2 min) and restore the backup data after the replacement so the data may be able to be protected. - Backup: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMBUP - Restoration: COPIER (LEVEL2)> FUNCTION> SYSTEM> RSRAMRES
E743-0001-04	DDI communication error
Detection Description	Software sequence error
Remedy	[Remedy] Turn OFF and then ON the main power.
E744-0001-00	Language file error
Detection Description	The language file in HDD was not supported by the version of Bootable.
Remedy	[Remedy]Reinstall the correct language file using SST or USB memory reinstall the entire software.
E744-0002-00	Language file error
Detection Description	Size of the language file in HDD was too big.
Remedy	[Remedy]Reinstall the correct language file using SST or USB memory reinstall the entire software.
E744-0003-00	Language file error
Detection Description	The language file to be switched to that was described in the Config.txt in HDD was not found.
Remedy	[Remedy]Reinstall the correct language file using SST or USB memory reinstall the entire software.
E744-0004-00	Language file error
Detection Description	Switching to the language file in the HDD failed.
Remedy	[Remedy]Reinstall the correct language file using SST or USB memory reinstall the entire software.
E744-2000-00	Controller firmware mismatch
Detection Description	Invalid controller firmware was detected at startup.
Remedy	Reinstall the correct system software.
E744-5000-07	Mismatch of software version for fax
Detection Description	After the Fax Board (option) has been installed, mismatch of version of software in the Fax Board was detected at transmission and reception.
Remedy	Upgrade the system software version to the latest one.
E746-0011-00	Voice Board error
Detection Description	Because both the voice composition board and the composition recognition board are inserted.
Remedy	Insert only 1 board of the appropriate voice board.

E746-0021-00	Image Analysis Board error
Detection Description	Self-check NG of Image Analysis Board
Remedy	[Remedy] Perform the following in the order while checking whether the error is cleared. <ol style="list-style-type: none"> 1. Remove and then install the Image Analysis Board. 2. If the error is not cleared, replace the Image Analysis Board. 3. After replacing the Image Analysis Board, reinstall the firmware of the Image Analysis Board or the system software which version is supported by this model using SST or a USB flash drive.
E746-0022-00	Image Analysis Board error
Detection Description	Different version of Image Analysis Board (PCB used for PCAM)
Remedy	[Remedy]Reinstall the firmware of the Image Analysis Board or the system software which version is supported by this model using SST or a USB flash drive.
E746-0023-00	Image Analysis Board error
Detection Description	No response from Image Analysis Board (PCB used for PCAM)
Remedy	[Remedy] Perform the following in the order while checking whether the error is cleared. <ol style="list-style-type: none"> 1. Remove and then install the Image Analysis Board. 2. If the error is not cleared, replace the Image Analysis Board. 3. After replacing the Image Analysis Board, reinstall the firmware of the Image Analysis Board or the system software which version is supported by this model using SST or a USB flash drive.
E746-0024-00	Image Analysis Board error
Detection Description	Failure in behavior of Image Analysis Board (PCB used for PCAM)
Remedy	[Remedy] Perform the following in the order while checking whether the error is cleared. <ol style="list-style-type: none"> 1. Remove and then install the Image Analysis Board. 2. If the error is not cleared, replace the Image Analysis Board. 3. After replacing the Image Analysis Board, reinstall the firmware of the Image Analysis Board or the system software which version is supported by this model using SST or a USB flash drive.
E746-0031-00	TPM error
Detection Description	A communication error has occurred between the Main Controller PCB and the TPM PCB at startup.
Remedy	[Remedy] Check/replace the TPM PCB. [Reference] After replacing the TPM PCB, if the TPM key was backed up, restore the key. <ol style="list-style-type: none"> 1. Connect the USB memory which stores the TPM key. 2. Execute "Settings/Registration> Log In> Management Settings> Data Management> TPM Settings> Restore TPM Key". [CAUTION] Ask the customer to enter "System Manager ID" and "System Manager PIN" when logging in. <ol style="list-style-type: none"> 3. Enter the password set at backup operation. 4. When the restoration completion screen is displayed, click "OK". Remove the USB memory, and turn OFF and then ON the main power.
E746-0032-00	TPM error
Detection Description	Mismatch of the TPM key was detected.
Remedy	[Remedy] Perform the following in the order while checking whether the error is cleared. <ol style="list-style-type: none"> 1. Format the HDD and reinstall the system software using SST or a USB flash drive. 2. Replace the TPM PCB. [Reference] After replacing the TPM PCB, if the TPM key was backed up, restore the key. <ol style="list-style-type: none"> 1. Connect the USB memory which stores the TPM key. 2. Execute "Settings/Registration> Log In> Management Settings> Data Management> TPM Settings> Restore TPM Key". [CAUTION] Ask the customer to enter "System Manager ID" and "System Manager PIN" when logging in. <ol style="list-style-type: none"> 3. Enter the password set at backup operation. 4. When the restoration completion screen is displayed, click "OK". Remove the USB memory, and turn OFF and then ON the main power.

E746-0033-00	TPM error
Detection Description	It was detected that data in TPM was inconsistent.
Remedy	<p>[Remedy]</p> <p>If the TPM key was backed up,</p> <ul style="list-style-type: none"> - Restore the TPM key. <ol style="list-style-type: none"> 1. Connect the USB memory which stores the TPM key. 2. Execute "Settings/Registration> Log In> Management Settings> Data Management> TPM Settings> Restore TPM Key". <p>[CAUTION] Ask the customer to enter "System Manager ID" and "System Manager PIN" when logging in.</p> <ol style="list-style-type: none"> 3. Enter the password set at backup operation. 4. When the restoration completion screen is displayed, click "OK". Remove the USB memory, and turn OFF and then ON the main power. <p>If the TPM key was not backed up,</p> <ul style="list-style-type: none"> - Format the HDD and reinstall the system software using SST or a USB flash drive.
E746-0034-00	TPM auto recovery error
Detection Description	The error occurred when clearing HDD while TPM setting was ON.
Remedy	<p>[Remedy]</p> <p>It is recovered by turning OFF and then ON the power.</p> <p>If the error is not cleared, format the HDD and reinstall the system software using SST or a USB flash drive.</p>
E746-0035-00	TPM version error
Detection Description	TPM PCB which cannot be used in this machine was installed.
Remedy	[Remedy]Install the TPM PCB for this model.
E747-0000-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-001E-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0119-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-011A-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-011B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0219-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-021A-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-021B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-0319-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-031A-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-031B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0419-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-041A-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-041B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-051B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-051C-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-051D-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0618-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-0619-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-061A-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-061B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0718-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0719-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-071A-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-071B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0818-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0819-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-081A-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-081B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0918-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0919-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-091A-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-091B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-0A18-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0A19-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0A1A-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0A1B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0B18-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-0B19-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0B1A-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0B1B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0C18-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0C19-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-0C1A-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-0C1B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-110D-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-110E-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-1117-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-1200-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-1201-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-1202-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-1203-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-1204-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-1205-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-1206-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-1207-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-1208-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-1217-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-2000-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-2017-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-2018-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-201B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-201C-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-201F-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-2217-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-2218-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-221B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-221C-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-221F-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-3C00-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-3D00-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-3F00-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-6000-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-620C-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-620D-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-620E-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-620F-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-6210-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-6211-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-6218-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-6219-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-621A-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-621B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-621C-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-621D-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-621F-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-650F-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-6513-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-6514-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-6515-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-6516-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-6517-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-6519-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-651A-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-651B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-651C-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-651D-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-651F-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-6A1F-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-6B1F-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-6C1E-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-6C1F-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-6F1F-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-711F-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-721F-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-741E-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-741F-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-751B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-751C-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-751F-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-7C00-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-7D00-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-7F00-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-850F-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-8513-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-8514-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-8515-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-8516-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-8517-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-8519-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-851A-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-851B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-851C-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-851D-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-851F-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-951A-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-951B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-9C00-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-9F00-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-C000-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-C519-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-C51A-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-C51B-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-C51C-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-C51D-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-C51F-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-C701-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E747-C706-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>

E747-DC00-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	[Related parts] <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD [Remedy] Check/replace the related harness/cable, connector and parts.
E747-DF00-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	[Related parts] <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD [Remedy] Check/replace the related harness/cable, connector and parts.
E747-FF00-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	[Related parts] <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD [Remedy] Check/replace the related harness/cable, connector and parts.
E747-FF01-00	Board error
Detection Description	There was unexpected interruption from ASIC.
Remedy	[Related parts] <ul style="list-style-type: none"> - Harness between the Reader Controller PCB (UN_BO1/J109) and the Riser PCB (J7) - Bypass PCB (when non-Canon-made controller is installed) - Open I/F PCB (when non-Canon-made controller is installed) - Riser PCB - Main Controller PCB - HDD [Remedy] Check/replace the related harness/cable, connector and parts.
E748-2000-00	Main Controller PCB access error
Detection Description	Main Controller PCB Chip access error.
Remedy	[Remedy] Check/replace the Main Controller PCB
E748-2001-00	Main Controller PCB access error
Detection Description	Main Controller PCB memory access error.
Remedy	[Remedy] Check/replace the Main Controller PCB

E748-2010-00	Flash PCB error
Detection Description	IPL (startup program) was not found, or the HDD could not be recognized.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Cable between the Main Controller PCB and the HDD - SATA-FLASH PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ol style="list-style-type: none"> 1. Disconnect the cable between the Main Controller PCB and the HDD, and turn ON the main power. <ol style="list-style-type: none"> a. When the error code has not been changed: <ol style="list-style-type: none"> 1. Obtain the necessary backup data by referring to the backup data list. 2. After replacing the Flash PCB, reinstall the system software using SST or a USB memory. 3. Restore the backup data. b. When the error code has been changed to another one, see the remedy for the corresponding code. <p>[Reference] For backup and restoration, refer to "Adjustment> Main Controller System" and "Appendix> Backup Data List" in the Service Manual.</p>
E748-2011-00	Flash PCB error
Detection Description	OS was not found at startup.
Remedy	[Remedy] Replace the SataFlash PCB.
E748-2012-00	Flash PCB error
Detection Description	The OS could not be installed or there was no OS start script at startup in safe mode.
Remedy	[Remedy] Replace the SataFlash PCB.
E748-2021-00	Main Controller PCB access error
Detection Description	Main controller board access errors
Remedy	[Remedy] Check/replace the Main Controller PCB
E748-2022-00	Main controller startup error
Detection Description	An fatal error was detected in the Main Controller at startup
Remedy	[Remedy] Check/replace the Main Controller PCB
E748-2023-00	Main Controller PCB access error
Detection Description	Main controller board access errors
Remedy	[Remedy] Check/replace the Main Controller PCB
E748-2024-00	Main Controller PCB access error
Detection Description	Main controller board access errors
Remedy	[Remedy] Check/replace the Main Controller PCB
E748-2025-00	Main Controller PCB access error
Detection Description	Main controller board access errors
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Bypass PCB - Open I/F PCB - Main Controller PCB <p>[Remedy]</p> <ol style="list-style-type: none"> 1. Start up the machine with 2+4 startup, and perform a controller self-diagnosis. Check the results of SN-18 and SN-19. <ul style="list-style-type: none"> - If the results show "OK" for both of these, proceed to step 4. 2. Check if the Bypass PCB or the Open IF PCB is properly installed, and clean up any foreign matter. 3. Replace the Bypass PCB or the Open IF PCB. 4. Replace the Main Controller PCB.
E748-2026-00	Main Controller PCB access error
Detection Description	Main controller board access errors
Remedy	[Remedy] Check/replace the Main Controller PCB

E748-4910-00	Main Controller PCB access error
Detection Description	Main controller board access errors
Remedy	[Remedy] Check/replace the Main Controller PCB
E748-7011-00	Start system verification function error
Detection Description	At startup, an error may occur due to invalid data of the OS boot loader on the flash PCB. When this error occurs, the system has not been started normally. Therefore, it is not recorded in the error log.
Remedy	[Related parts] - Flash PCB [Remedy] 1. Replace the Flash PCB and reinstall the system using SST or a USB flash drive.
E748-7021-00	Start system verification function error
Detection Description	At startup, an error may occur due to invalid data of the OS kernel on the flash PCB. When this error occurs, the system has not been started normally. Therefore, it is not recorded in the error log.
Remedy	[Related parts] - Flash PCB [Remedy] 1. Replace the Flash PCB and reinstall the system using SST or a USB flash drive.
E748-7022-00	Start system verification function error
Detection Description	At startup, an error may occur due to invalid data of the OS kernel on the flash PCB. When this error occurs, the system has not been started normally. Therefore, it is not recorded in the error log.
Remedy	[Related parts] - Flash PCB [Remedy] 1. Replace the Flash PCB and reinstall the system using SST or a USB flash drive.
E748-9000-00	System error
Detection Description	System error
Remedy	Contact to the sales company.
E749-0006-00	Error due to change in hardware configuration
Detection Description	Change in option configuration could not be detected.
Remedy	[Remedy] Turn OFF and then ON the main power. [Reference] Options are recognized again by turning OFF and then ON the main power. In the case of changing option configuration, disconnect the power plug or turn OFF the breaker after turning OFF the main power so that an error does not occur.
E753-0001-00	Download Error
Detection Description	Update of the system software failed.
Remedy	[Remedy] Perform the following in the order while checking whether the error is cleared. 1. Turn OFF and then ON the main power. 2. Reinstall the system software using SST or a USB memory. 3. Replace the FLASH PCB, and reinstall the system software. 4. Collect debug log and contact the sales company.
E760-0001-00	Main Controller PCB internal error
Detection Description	An error was detected in the Main Controller PCB.
Remedy	[Remedy] Check/replace the Main Controller PCB

E804-0000-00	Power Supply Cooling Fan error
Detection Description	It was detected that the Power Supply Cooling Fan was locked.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harnesses from the Low Voltage Power Supply PCB (UN9/J876) and the Power Supply Cooling Fan (FM3/J8761) - Power Supply Cooling Fan (FM3) - Low Voltage Power Supply PCB (UN9) <p>[Remedy] Check/replace the related harness/cable, connector and parts.</p>
E805-0000-05	Fixing Heat Exhaust Fan Error
Detection Description	<p>Rotation error of the Fixing Heat Exhaust Fan 1 was detected.</p> <ul style="list-style-type: none"> - Rotation signal was detected while the fan was being stopped, or the signal was not detected during operation.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Harness between the Feed/Drum Driver PCB (UN2/J217) and Fixing Exhaust Fan 1 (FM1/J6066) - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Fixing Exhaust Fan 1 (FM1) <p>[Remedy]</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.
E805-0001-05	Fixing Heat Exhaust Fan Error
Detection Description	<p>Rotation error of the Fixing Heat Exhaust Fan 2 was detected.</p> <ul style="list-style-type: none"> - Rotation signal was detected while the fan was being stopped, or the signal was not detected during operation.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Harness between the Feed/Drum Driver PCB (UN2/J217) and Fixing Exhaust Fan 2 (FM2/J6067) - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Fixing Exhaust Fan 2 (FM2) <p>[Remedy]</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.
E806-0000-05	Delivery fan Error
Detection Description	<p>Rotation error of the Delivery Fan 1 was detected.</p> <ul style="list-style-type: none"> - Rotation signal was detected while the fan was being stopped, or the signal was not detected during operation.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Harness between the Feed/Drum Driver PCB (UN2/J213) and Delivery Fan 1 (FM7/J6061) - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Delivery Fan 1 (FM7) <p>[Remedy]</p> <ol style="list-style-type: none"> 1. Check/replace the related harness/cable, connector and parts.

E806-0001-05	Delivery fan Error
Detection Description	Rotation error of the Delivery Fan 2 was detected. - Rotation signal was detected while the fan was being stopped, or the signal was not detected during operation.
Remedy	[Related parts] - Harness between the Relay PCB (UN5/J402) and Front Driver PCB (UN3/J304) - Harness between the Front Driver PCB (UN3/J309) and Delivery Fan 2 (FM9/J3012) - Power Supply Unit - Front Driver PCB - Relay PCB - Delivery Fan 2 (FM9) [Remedy] 1. Check/replace the related harness/cable, connector and parts.
E806-0002-05	Secondary Transfer Exhaust Fan Error
Detection Description	Rotation error of the Secondary Transfer Exhaust Fan was detected. - Rotation signal was detected while the fan was being stopped, or the signal was not detected during operation.
Remedy	[Related parts] - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Harness between the Feed/Drum Driver PCB (UN2/J213) and Secondary Transfer Exhaust Fan (FM8/J6071) - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Secondary Transfer Exhaust Fan (FM8) [Remedy] 1. Check/replace the related harness/cable, connector and parts.
E806-0003-05	Rear Exhaust Fan error
Detection Description	Rotation error of the Rear Exhaust Fan was detected.
Remedy	[Related parts] - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Harness between the Feed/Drum Driver PCB (UN2/J205) and Rear Exhaust Fan (FM12/J2051) - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Rear Exhaust Fan (FM12) [Remedy] 1. Check/replace the related harness/cable, connector and parts.
E807-0000-05	Process cartridge fan Error
Detection Description	Rotation error of the Process Cartridge Fan (Rear) was detected. - Rotation signal was detected while the fan was being stopped, or the signal was not detected during operation.
Remedy	[Related parts] - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Harness between the Feed/Drum Driver PCB (UN2/J224) and Process Cartridge Fan (Rear) (FM4/J6124) - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Process Cartridge Fan (Rear) (FM4) [Remedy] 1. Check/replace the related harness/cable, connector and parts.

E807-0001-05	Process cartridge fan Error
Detection Description	Rotation error of the Process Cartridge Fan (Front) was detected. - Rotation signal was detected while the fan was being stopped, or the signal was not detected during operation.
Remedy	[Related parts] - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Harness between the Feed/Drum Driver PCB (UN2/J224) and Process Cartridge Fan (Front) (FM10/J6123) - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Process Cartridge Fan (Front) (FM10) [Remedy] 1. Check/replace the related harness/cable, connector and parts.
E808-0000-05	Zero Cross Error
Detection Description	Zero cross signal was not detected after fixing relay was ON.
Remedy	[Related parts] - Harness between the DC Controller PCB (J173) and AC Driver PCB (J505) - Power Supply Unit - AC Driver PCB - DC Controller PCB [Remedy] - Check the voltage of the outlet, and connect the machine to the correct outlet if it is wrong. - Check/replace the related harness/cable, connector and parts.
E840-0000-05	Fixing Shutter HP error
Detection Description	Home position error of the Fixing Shutter was detected.
Remedy	[Related parts] - Harness between the Feed/Drum Driver PCB (UN2/J213) and Fixing Shutter Motor (M27/J6059) - Harness connecting the Feed/Drum Driver PCB (UN2/J214), Drawer Unit, and Fixing Relay PCB (UN78/J720) - Harness between the Relay PCB (UN5/J406) and Feed/Drum Driver PCB (UN2/J201) - Harness connecting the Fixing Relay PCB (UN78/J722), Shutter HP Sensor, and Shutter Position Detection Sensor (PS31/J6103, PS32/J6102) - Power Supply Unit - Feed/Drum Driver PCB - Relay PCB - Fixing Shutter Motor (M27) - Shutter Unit - Fan Shutter Coupling - 50T Gear - Shutter Pinion - Shutter HP Sensor (PS31) - Shutter Position Detection Sensor (PS32) [Remedy] Perform the following in the order while checking whether the error is cleared. 1. Check/replace the related harness/cable, connector and parts.
E880-0001-00	Controller Fan error
Detection Description	It was detected that the Controller Fan was locked.
Remedy	[Related parts] - Cable between the Main Controller PCB (J15) and the Controller Fan (FM11) - Controller Fan (FM11) - Main Controller PCB [Remedy] Perform the following in the order while checking whether the error is cleared. - Check the connectors of the Controller Fan. - Visually check rotation of the Controller Fan. a. If it is not rotated, replace the Controller Fan. b. If it is rotated, replace the Main Controller PCB.

E880-0003-00	Controller Fan error
Detection Description	It was detected that the Controller Fan was locked.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Cable between the Main Controller PCB (J15) and the Controller Fan (FM11) - Controller Fan (FM11) - Main Controller PCB <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ul style="list-style-type: none"> - Check the connectors of the Controller Fan. - Visually check rotation of the Controller Fan. <ul style="list-style-type: none"> a. If it is not rotated, replace the Controller Fan. b. If it is rotated, replace the Main Controller PCB.
E880-0005-00	Error in Controller Fan
Detection Description	Fan lock of the HDD Cooling Fan was detected
Remedy	<p>[Remedy]</p> <p>Check if the connector is connected.</p> <p>If the connection is OK, replace the HDD Cooling Fan.</p>
E881-0001-00	Board over heat error
Detection Description	Abnormal temperature of the Main Controller CPU was detected.
Remedy	<p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ul style="list-style-type: none"> a. If the error occurred during a service visit and then occurred again, replace the Main Controller PCB. b. If the error does not occur during a service visit but is found in the log: <ol style="list-style-type: none"> 1. Clean the inlet on the side where the fan is installed and remove dust. 2. Remove dust from the Controller fan. 3. If the space on the side where the fan is installed is less than 10 cm, ask the customer to secure enough space.
E882-0002-05	Main Power Supply Switch error
Detection Description	The main power was not turned OFF due to the solenoid in the Main Power Switch not working.
Remedy	<p>[Related parts]</p> <ul style="list-style-type: none"> - Harness between the DC Controller PCB (UN1/J109) and the Main Power Supply Switch (SW/J1091 and J1092) - Main Power Supply Switch (SW1) - Riser PCB - DC Controller PCB (UN1) <p>[Remedy] Perform the following in the order while checking whether the error is cleared.</p> <ul style="list-style-type: none"> a. If the fuse (FU5) of the Riser PCB is blown out, <ol style="list-style-type: none"> 1. Check the harness and connector (caught cable, short circuit). 2. Check/replace the Riser PCB. b. If the fuse (FU5) of the Riser PCB is not blown out, <ol style="list-style-type: none"> 1. Check for any open circuit of the harness. 2. Check/replace the Main Power Supply Switch. 3. Check/replace the DC Controller PCB.
E996-0071-04	Error for collecting sequence jam log (ADF)
Detection Description	Error for collecting jam log (ADF)
Remedy	<p>[Remedy] Collect debug log and contact to the sales company.</p> <p>[Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> JM-ERR-R" to "1", it is handled as an error instead of a jam from the first occurrence.</p>
E996-0CA1-05	Error for collecting log (Printer)
Detection Description	Error for collecting log (Printer) Continuous 0CA1 jam was detected.
Remedy	<p>[Remedy] Collect debug log and contact to the sales company.</p> <p>[Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> JM-ERR-D" to "1", it is handled as an error instead of a jam from the first occurrence.</p>

E996-0CA2-05	Error for collecting log (Printer)
Detection Description	Error for collecting log (Printer) Continuous 0CA2 jam was detected.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> JM-ERR-D" to "1", it is handled as an error instead of a jam from the first occurrence.
E996-0CA3-05	Error for collecting log (Printer)
Detection Description	Error for collecting log (Printer) Continuous 0CA3 jam was detected.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> JM-ERR-D" to "1", it is handled as an error instead of a jam from the first occurrence.
E996-0CA4-05	Error for collecting log (Printer)
Detection Description	Error for collecting log (Printer) Continuous 0CA4 jam was detected.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> JM-ERR-D" to "1", it is handled as an error instead of a jam from the first occurrence.
E996-0CA5-05	Error for collecting log (Printer)
Detection Description	Error for collecting log (Printer) Continuous 0CA5 jam was detected.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> JM-ERR-D" to "1", it is handled as an error instead of a jam from the first occurrence.
E996-0CA6-05	Error for collecting log (Printer)
Detection Description	Error for collecting log (Printer)
Remedy	[Remedy] Collect debug log and contact to the sales company.
E996-0CA7-05	Error for collecting log (Printer)
Detection Description	Error for collecting log (Printer) Continuous 0CA7 jam was detected.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> JM-ERR-D" to "1", it is handled as an error instead of a jam from the first occurrence.
E996-0CA9-05	Error for collecting log (Printer)
Detection Description	Error for collecting log (Printer) Continuous 0CA9 jam was detected.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> JM-ERR-D" to "1", it is handled as an error instead of a jam from the first occurrence.
E996-0CAA-05	Error for collecting log (Printer)
Detection Description	Error for collecting log (Printer) Continuous 0CAA jam was detected.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> JM-ERR-D" to "1", it is handled as an error instead of a jam from the first occurrence.
E996-0CAB-05	Error for collecting log (Printer)
Detection Description	Error for collecting log (Printer) Continuous 0CAB jam was detected.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> JM-ERR-D" to "1", it is handled as an error instead of a jam from the first occurrence.

E996-0CAC-05	Error for collecting log (Printer)
Detection Description	Error for collecting log (Printer) Continuous 0CAC jam was detected.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> JM-ERR-D" to "1", it is handled as an error instead of a jam from the first occurrence.
E996-0CAE-05	Error for collecting log (Printer)
Detection Description	Error for collecting log (Printer) Continuous 0CAE jam was detected.
Remedy	[Remedy] Collect debug log and contact to the sales company. [Reference] By setting "COPIER (LEVEL2)> OPTION> FNC-SW> JM-ERR-D" to "1", it is handled as an error instead of a jam from the first occurrence.

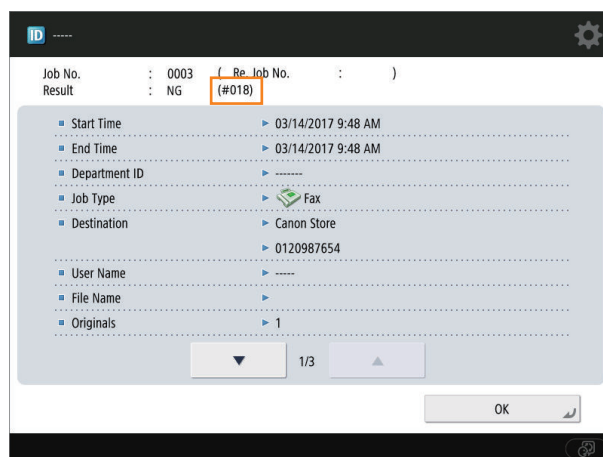
Error Code (FAX)

How to View Fax Error Codes

When the service mode #1 SSSW SW01 Bit0 is set to "1" after installing the Fax Board, service error code is output on the communication management report, reception result report, and error transmission report in the event that the communication is resulted in an error.

Moreover, when an error occurs, the error code can be checked by performing the following procedure.

Status Monitor/Cancel > Send > Job Log > Details



The error codes displayed on the screen are shown in a list in "User Error Codes" and "Service Error Codes".

For remedies for user error codes, refer to the User's Guide. For remedies for service error codes, refer to "G3/G4 Facsimile Error Code List (REVISION 2)" (document number: HY8-23A0-020) provided as a separate volume.

User error codes

Regarding the user error codes, refer to Top > Troubleshooting > A Message or a Number Starting with "#" (an Error Code) Is Displayed > Countermeasures for Each Error Code.

Service Error Code

Code	Cause	Remedy
##3016	[T/R] An instruction of disconnection (BYE) was received from the network at an unexpected time.	Perform a communication again.

*1: G3FAX

*2: IPFAX

No.*1	No.*2	T/R	Description
##100	##3100	[T]	at time of transmission, the procedural signal has been transmitted more than specified.
##101	##3101	[T/R]	the modem speed does not match that of the other party.
##102	##3102	[T]	at time of transmission, fall-back cannot be used.
##103	##3103	[R]	at time of reception, EOL cannot be detected for 5 sec (15 sec if CBT).
##104	##3104	[T]	at time of transmission, RTN or PIN is received.
##106	##3106	[R]	at time of reception, the procedural signal is received for 6 sec while in wait for the signal.
##107	##3107	[R]	at time of reception, the transmitting party cannot use fall-back.
##109	##3109	[T]	at time of transmission, a signal other than DIS, DTC, FTT, CFR, or CRP is received, and the procedural signal has been sent more than specified.
##111	##3111	[T/R]	memory error has occurred.

No.*1	No.*2	T/R	Description
##114	##3114	[R]	at time of reception, RTN is transmitted.
##116	##3116	[T/R]	Disconnection of loop current was detected during communication.
##200	##3200	[R]	at time of reception, no image carrier is detected for 5 sec.
##201	##3201	[T/R]	DCN is received outside the normal parity procedure.
##204	##3204	[T]	DTC without transmission data is received.
##220	##3220	[T/R]	system error (main program out of control) has occurred.
##223	##3223	[T/R]	while a communication is under way, the line is cut.
##224	##3224	[T/R]	in communication, an error has occurred in the procedural signal.
##226	##3226	[T/R]	the stack printer has fallen outside the RAM area.
##227	##3227	[R]	An attempt was made to record a file without image.
##229	##3229	[R]	the recording unit has remained locked for 1 min.
##230	##3230	[T/R]	A unit for controlling the display has malfunctioned.
##231	##3231	[T/R]	A unit for controlling the Control Panel buttons has malfunctioned.
##232	##3232	[T]	encoding error has occurred.
##237	##3237	[R]	decoding error has occurred.
##238	##3238	[R]	the print control unit is out of order.
##261	##3261	[T/R]	system error has occurred.
##280	##3280	[T]	at time of transmission, the procedural signal has been transmitted more than specified.
##281	##3281	[T]	at time of transmission, the procedural signal has been transmitted more than specified.
##282	##3282	[T]	at time of transmission, the procedural signal has been transmitted more than specified.
##283	##3283	[T]	at time of transmission, the procedural signal has been transmitted more than specified.
##284	##3284	[T]	at time of transmission, DCN is received after transmission of TCF.
##285	##3285	[T]	at time of transmission, DCN is received after transmission of EOP.
##286	##3286	[T]	at time of transmission, DCN is received after transmission of EOM.
##287	##3287	[T]	at time of transmission DCN is received after transmission of MPS.
##288	##3288	[T]	after transmission of EOP, a signal other than PIN, PIP, MCF, RTP, or RTN has been received.
##289	##3289	[T]	after transmission of EOM, a signal other than PIN, PIP, MCF, RTP, or RTN has been received.
##290	##3290	[T]	after transmission of MPS, a signal other than PIN, PIP, MCF, RTP, or RTN has been received.
##670	##3670	[T]	at time of V.8 late start, the V.8 ability of DIS front the receiving party is expected to be detected, and the CI signal is expected to be transmitted in response; however, the procedure fails to advance, and the line is released because of T1 time-out.
##671	##3671	[R]	at time of V.8 arrival, procedure fails to move to phase 2 after detection of CM signal from caller, causing T1 time-out and releasing line.
##672	##3672	[T]	at time of V.34 transmission, a shift in procedure from phase 2 to phase 3 and thereafter stops, causing the machine to release the line and suffer T1 timeout.
##673	##3673	[R]	at time of V.34 reception, a shift in procedure from phase 2 to phase 3 and thereafter stops, causing the machine to release the line and suffer T1 timeout.
##674	##3674	[T]	at time of V.34 transmission, a shift in procedure from phase 3 and phase 4 to the control channel and thereafter stops, causing the machine to release the line and suffer T1 timeout.
##675	##3675	[R]	at time of V.34 reception, a shift in procedure from phase 3 and phase 4 to the control channel and thereafter stops, causing the machine to release the line and suffer T1 timeout.
##750	##3750	[T]	at time of ECM transmission, no meaningful signal is received after transmission of PPS-NULL, causing the procedural signal to be transmitted more than specified.
##752	##3752	[T]	at time of ECM transmission, DCN is received after transmission of PPS-NULL.
##753	##3753	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-NULL, or T5 time-out (60 sec) has occurred.
##754	##3754	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-NULL.

No.*1	No.*2	T/R	Description
##755	##3755	[T]	at time of ECM transmission, no meaningful signal is received after transmission of PPS-MPS, causing the procedural signal to be transmitted more than specified.
##757	##3757	[T]	at time of ECM transmission, DCN is received after retransmission of PPS-MPS.
##758	##3758	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-MPS, or T5 time-out (60 sec) has occurred.
##759	##3759	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-MPS.
##760	##3760	[T]	at time of ECM transmission, no meaningful signal is received after transmission of PPS-EOM, causing the procedural signal to be transmitted more than specified.
##762	##3762	[T]	at time of ECM transmission, DCN is received after transmission of PPS-EOM.
##763	##3763	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-MPS, or T5 time-out (60 sec) has occurred.
##764	##3764	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-EOM.
##765	##3765	[T]	at time of ECM transmission, no meaningful signal is received after transmission of PPS-EOP, causing the procedural signal to be transmitted more than specified.
##767	##3767	[T]	at time of ECM transmission, DCN is received after transmission of PPS-EOP.
##768	##3768	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-EOP, or T5 time-out (60 sec) has occurred.
##769	##3769	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-EOP.
##770	##3770	[T]	at time of ECM transmission, no meaningful signal is received after transmission of EOR-NULL, causing the procedural signal to be transmitted more than specified.
##772	##3772	[T]	at time of ECM transmission, DCN is received after transmission of EOR-NULL.
##773	##3773	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of EOR-NULL, or T5 time-out (60 sec) has occurred.
##774	##3774	[T]	at time of ECM transmission, ERR is received after transmission of EOR-NULL.
##775	##3775	[T]	at time of ECM transmission, no meaningful signal is received after transmission of EOR-MPS, causing the procedural signal to be transmitted more than specified.
##777	##3777	[T]	at time of ECM transmission, DCN is received after transmission of EOR-MPS.
##778	##3778	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission EOR-MPS, or T5 time-out (60 sec) has occurred.
##779	##3779	[T]	at time of ECM transmission, ERR is received after transmission of EOR-MPS.
##780	##3780	[T]	at time of ECM transmission, no meaningful signal is received after transmission of EOR-EOM, causing the procedural signal to be transmitted more than specified.
##782	##3782	[T]	at time of ECM transmission, DCN is received after transmission of EOR-EOM.
##783	##3783	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of EOR-EOM, or T5 time-out (60 sec) has occurred.
##784	##3784	[T]	at time of ECM transmission, ERR is received after transmission of EOR-EOM.
##785	##3785	[T]	at time of ECM transmission, no meaningful signal is received after transmission of EOR-EOP, causing the procedural signal to be transmitted more than specified.
##787	##3787	[T]	at time of ECM transmission, DCN is received after transmission of EOR-EOP.
##788	##3788	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of EOR-EOP, or T5 time-out (60 sec) has occurred.
##789	##3789	[T]	at time of ECM transmission, ERR is received after transmission of EOR-EOP.
##790	##3790	[R]	at time of ECM reception, ERR is transmitted after transmission of EOR-Q.
##791	##3791	[T/R]	while ECM mode procedure is under way, a signal other than a meaningful signal is received.
##792	##3792	[R]	at time of ECM reception, PPS-NULL cannot be detected over partial page processing.
##793	##3793	[R]	at time of ECM reception, no effective frame is received while high-speed signal reception is under way, thus causing time-out.
##794	##3794	[T]	at time of ECM reception, PPR with all 0s is received.
##795	##3795	[T/R]	a fault has occurred in code processing for communication.
##796	##3796	[T/R]	a fault has occurred in code processing for communication.

Alarm Code

Alarm Code Details

00-0085	A notice of state
A. Operation / B. Cause / C. Remedy	-
00-0246	Error code display (4-digit)
A. Operation / B. Cause / C. Remedy	Soft counter PCB cannot write normally.
00-0247	Error code display (4-digit)
A. Operation / B. Cause / C. Remedy	Soft counter PCB cannot restore data.
01-0001	Notification of disabled to obtain counter values for a certain period of time
A. Operation / B. Cause / C. Remedy	Counter information is not set to UGW * Not displayed on service mode history due to the alarm being generated by UGW
01-0002	No change in device status after specified period of time has passed (RDS server creates)
A. Operation / B. Cause / C. Remedy	-
01-0004	Notification of IP address change
A. Operation / B. Cause / C. Remedy	IP address has been changed * Not displayed on service mode history due to the alarm being generated by UGW
01-0005	Restricted operation notification
A. Operation / B. Cause / C. Remedy	The device entered limited function mode for some reason. * Not displayed on service mode history due to the alarm being generated by UGW
02-0025	Insufficient Scanner Unit (Paper Front) LED light intensity alarm (Some of the LEDs are OFF. Scanning can be continued.)
A. Operation / B. Cause / C. Remedy	In the case that the light intensity is insufficient at LED lighting.

04-0001	Cassette 1 Lifter error
<p>A. Operation / B. Cause / C. Remedy</p>	<p>Cause: Error in the Lifter Motor or the Paper Surface Sensor</p> <p>Detection condition/timing: - When failure of the Cassette Lifter was detected - When lift-up was not completed (the Paper Surface Sensor was not turned ON) within the specified period of time after the start of lift-up</p> <p>Movement/symptom: While failure has occurred (an alarm has occurred), the target paper source cannot be used because it is in no paper state.</p> <p>Message displayed on the Control Panel: Check the paper source. (Contact the service technician)</p> <p>Measures: While the Cassette 1 is removed, turn ON the power and then insert the Cassette 1, and check the operation sound of the motor. When there is operation sound of the motor, check if the Lifting Plate has been lifted up. - If the Lifting Plate has been lifted up 1. Check that the Cassette 1 Paper Surface Sensor (PS68) is properly installed. 2. Check the harness/connector between the Feed/Drum Driver PCB (UN2) and the Cassette 1 Paper Surface Sensor (PS68). 3. Check the Cassette 1 Paper Surface Sensor (PS68). 4. Replace the Feed/Drum Driver PCB (UN2). - If the Lifting Plate has not been lifted up 1. Check the condition of the gear at the host machine side (missing teeth, swing). 2. Check the Cassette 1,2 Lifter Motor (M40). 3. Replace the Feed/Drum Driver PCB (UN2). When there is no operation sound of the motor, check the followings. 1. Check the harness/connector between the Feed/Drum Driver PCB (UN2/J221) and the Cassette 1,2 Lifter Motor (M40). 2. Check conduction of the fuse (FU5) in the Relay PCB (UN5). 3. Check the condition of the gear at the host machine side (missing teeth, swing). 4. Check the Cassette 1,2 Lifter Motor (M40). 5. Replace the Feed/Drum Driver PCB (UN2).</p>

04-0002

Cassette 2 Lifter error

A. Operation / B. Cause /	Cause:
C. Remedy	Error in the Lifter Motor or the Paper Surface Sensor
	Detection condition/timing:
	- When failure of the Cassette Lifter was detected
	- When lift-up was not completed (the Paper Surface Sensor was not turned ON) within the specified period of time after the start of lift-up
	Movement/symptom:
	While failure has occurred (an alarm has occurred), the target paper source cannot be used because it is in no paper state.
	Message displayed on the Control Panel:
	Check the paper source. (Contact the service technician)
	Measures:
	While the Cassette 2 is removed, turn ON the power and then insert the Cassette 2, and check the operation sound of the motor.
	When there is operation sound of the motor, check if the Lifting Plate has been lifted up.
	- If the Lifting Plate has been lifted up
	1. Check that the Cassette 2 Paper Surface Sensor (PS69) is properly installed.
	2. Check the harness/connector between the Feed/Drum Driver PCB (UN2) and the Cassette 2 Paper Surface Sensor (PS69).
	3. Check the Cassette 2 Paper Surface Sensor (PS69).
	4. Replace the Feed/Drum Driver PCB (UN2).
	- If the Lifting Plate has not been lifted up
	1. Check the condition of the gear at the host machine side (missing teeth, swing).
	2. Check the Cassette 1,2 Lifter Motor (M40).
	3. Replace the Feed/Drum Driver PCB (UN2).
	When there is no operation sound of the motor, check the followings.
	1. Check the harness/connector between the Feed/Drum Driver PCB (UN2/J221) and the Cassette 1,2 Lifter Motor (M40).
	2. Check conduction of the fuse (FU5) in the Relay PCB (UN5).
	3. Check the condition of the gear at the host machine side (missing teeth, swing).
	4. Check the Cassette 1,2 Lifter Motor (M40).
	5. Replace the Feed/Drum Driver PCB (UN2).

04-0003

Cassette 3 Lifter error

A. Operation / B. Cause / C. Remedy	<p>Cause: Error in the Lifter Motor or the Paper Surface Sensor</p> <p>Detection condition/timing: - When failure of the Cassette Lifter was detected - When lift-up was not completed (the Paper Surface Sensor was not turned ON) within the specified period of time after the start of lift-up</p> <p>Movement/symptom: While failure has occurred (an alarm has occurred), the target paper source cannot be used because it is in no paper state.</p> <p>Message displayed on the Control Panel: Check the paper source. (Contact the service technician)</p> <p>Measures: While the Cassette 3 is removed, turn ON the power and then insert the Cassette 3, and check the operation sound of the motor. When there is operation sound of the motor, check if the Lifting Plate has been lifted up. - If the Lifting Plate has been lifted up 1. Check that the Cassette 3 Paper Surface Sensor (PS107) is properly installed. 2. Check the harness/connector between the Feed/Drum Driver PCB (UN2) and the Cassette 3 Paper Surface Sensor (PS107). 3. Check the Cassette 3 Paper Surface Sensor (PS107). 4. Replace the Feed/Drum Driver PCB (UN2). - If the Lifting Plate has not been lifted up 1. Check the condition of the gear at the host machine side (missing teeth, swing). 2. Check the Cassette 3,4 Lifter Motor (M101). 3. Replace the Feed/Drum Driver PCB (UN2). When there is no operation sound of the motor, check the followings. 1. Check the harness/connector between the Feed/Drum Driver PCB (UN2/J221) and the Cassette 3,4 Lifter Motor (M101). 2. Check conduction of the fuse (FU5) in the Relay PCB (UN5). 3. Check the condition of the gear at the host machine side (missing teeth, swing). 4. Check the Cassette 3,4 Lifter Motor (M101). 5. Replace the Feed/Drum Driver PCB (UN2).</p>
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04-0004

Cassette 4 Lifter error

A. Operation / B. Cause /	Cause:
C. Remedy	<p>Error in the Lifter Motor or the Paper Surface Sensor</p> <p>Detection condition/timing:</p> <ul style="list-style-type: none"> - When failure of the Cassette Lifter was detected - When lift-up was not completed within the specified period of time after the start of lift-up <p>Movement/symptom:</p> <p>While failure has occurred (an alarm has occurred), the target paper source cannot be used because it is in no paper state.</p> <p>Message displayed on the Control Panel:</p> <p>Check the paper source. (Contact the service technician)</p> <p>Measures:</p> <p>While the Cassette 4 is removed, turn ON the power and then insert the Cassette 4, and check the operation sound of the motor.</p> <p>When there is operation sound of the motor, check if the Lifting Plate has been lifted up.</p> <ul style="list-style-type: none"> - If the Lifting Plate has been lifted up <ol style="list-style-type: none"> 1. Check that the Cassette 4 Paper Surface Sensor (PS108) is properly installed. 2. Check the harness/connector between the Feed/Drum Driver PCB (UN2) and the Cassette 4 Paper Surface Sensor (PS108). 3. Check the Cassette 4 Paper Surface Sensor (PS108). 4. Replace the Feed/Drum Driver PCB (UN2). - If the Lifting Plate has not been lifted up <ol style="list-style-type: none"> 1. Check the condition of the gear at the host machine side (missing teeth, swing). 2. Check the Cassette 3,4 Lifter Motor (M101). 3. Replace the Feed/Drum Driver PCB (UN2). <p>When there is no operation sound of the motor, check the followings.</p> <ol style="list-style-type: none"> 1. Check the harness/connector between the Feed/Drum Driver PCB (UN2/J221) and the Cassette 3,4 Lifter Motor (M101). 2. Check conduction of the fuse (FU5) in the Relay PCB (UN5). 3. Check the condition of the gear at the host machine side (missing teeth, swing). 4. Check the Cassette 3,4 Lifter Motor (M101). 5. Replace the Feed/Drum Driver PCB (UN2).

04-0007	Multi-purpose Tray Pickup Lifter error
A. Operation / B. Cause / C. Remedy	<p>Cause: Error in the Pickup Motor or the HP Sensor</p> <p>Detection condition/timing: - When failure of the MP Pickup Roller lifting mechanism was detected - When lift-up of the MP Pickup Roller was not completed within the specified period of time after the start of lift-up</p> <p>Movement/symptom: While failure has occurred (an alarm has occurred), the target paper source cannot be used because it is in no paper state.</p> <p>Message displayed on the Control Panel: Check the paper source. (Contact the service technician)</p> <p>Measures: Operate the Multi-purpose Pickup Motor (M18) in the direction opposite to the direction of the Multi-purpose Tray pickup direction, and check the operation sound of the motor. Set the value of COPIER > FUNCTION > PART-CHK > MTR to 29. Execute COPIER > FUNCTION > PART-CHK > MTR-ON. When there is operation sound of the motor, check if the Pickup Roller moves up and down. - If the MP Pickup Roller moves up and down 1. Check that the Multi-Purpose Tray HP Sensor (PS73) is properly installed. 2. Check the Sensor Shield Plate. 3. Check the harness/connector between the Feed/Drum Driver PCB (UN2/J219) and the Right Door Relay PCB (UN61/J1100) and between the Right Door Relay PCB (UN61/J1101) and the Multi-purpose Tray HP Sensor (PS73). 4. Check that the Multi-Purpose Tray HP Sensor (PS73) is properly installed. 5. Replace the Feed/Drum Driver PCB (UN2). - If the MP Pickup Roller does not move up and down 1. Check the condition of the gears at the host machine side and the Right Door side (missing teeth, swing). 2. Check the Multi-Purpose Pickup Motor (M18). 3. Replace the Feed/Drum Driver PCB (UN2). When there is no operation sound of the motor 1. Check the harness/connector between the Feed/Drum Driver PCB (UN2/J217) and the Multi-Purpose Pickup Motor (M18). 2. Check the condition of the gear at the host machine side (missing teeth, swing). 3. Check the Multi-Purpose Pickup Motor (M18). 4. Replace the Feed/Drum Driver PCB (UN2).</p>
04-0010	Notification of jam left untouched
A. Operation / B. Cause / C. Remedy	<p>Jam is left untouched</p> <p>* Not displayed on service mode history due to the alarm being generated by UGW</p>
04-0011	Cassette 1 pickup retry error
A. Operation / B. Cause / C. Remedy	<p>Cause: Although pickup retry operation was performed predetermined number of times, paper could not be picked up.</p> <p>Detection condition/timing: When pickup jam occurred multiple times in the Cassette 1</p> <p>Movement/symptom: It is possible that pickup jams have frequently occurred.</p> <p>Measures: 1. Check the life of the Pickup Roller/Feed Roller/Separation Roller of the Cassette 1. => Check that there is no paper lint at the pickup slot. Replace the Pickup Roller if necessary. 2. Check if the harness of the Cassette 1 Cassette 1 Pullout Sensor (PS55) (between the Feed/Drum Driver PCB (UN2/J220) and the Cassette 1 Pullout Sensor) is shortened to GND using a tester.</p>

04-0012	Cassette 2 pickup retry error
A. Operation / B. Cause / C. Remedy	<p>Cause: Although pickup retry operation was performed predetermined number of times, paper could not be picked up.</p> <p>Detection condition/timing: When pickup jam occurred multiple times in the Cassette 2</p> <p>Movement/symptom: It is possible that pickup jams have frequently occurred.</p> <p>Measures:</p> <ol style="list-style-type: none"> 1. Check the life of the Pickup Roller/Feed Roller/Separation Roller of the Cassette 2. => Check that there is no paper lint at the pickup slot. Replace the Pickup Roller if necessary. 2. Check if the harness of the Cassette 2 Pullout Sensor (PS56) (between the Feed/Drum Driver PCB (UN2/J220) and the Cassette 2 Pullout Sensor) is shortened to GND using a tester.
04-0013	Cassette 3 pickup retry error
A. Operation / B. Cause / C. Remedy	<p>Cause: Although pickup retry operation was performed predetermined number of times, paper could not be picked up.</p> <p>Detection condition/timing: When pickup jam occurred multiple times in the Cassette 3</p> <p>Movement/symptom: It is possible that pickup jams have frequently occurred.</p> <p>Measures:</p> <ol style="list-style-type: none"> 1. Check the life of the Pickup Roller/Feed Roller/Separation Roller of the Cassette 3. => Check that there is no paper lint at the pickup slot. Replace the Pickup Roller if necessary. 2. Check if the harness of the Cassette 3 Pullout Sensor (PS101) (between the Cassette Pedestal Driver PCB (UN101/J2005) and the Cassette 3 Pullout Sensor) is shortened to GND using a tester.
04-0014	Cassette 4 pickup retry error
A. Operation / B. Cause / C. Remedy	<p>Cause: Although pickup retry operation was performed predetermined number of times, paper could not be picked up.</p> <p>Detection condition/timing: When pickup jam occurred multiple times in the Cassette 4</p> <p>Movement/symptom: It is possible that pickup jams have frequently occurred.</p> <p>Measures:</p> <ol style="list-style-type: none"> 1. Check the life of the Pickup Roller/Feed Roller/Separation Roller of the Cassette 4. => Check that there is no paper lint at the pickup slot. Replace the Pickup Roller if necessary. 2. Check if the harness of the Cassette 4 Pullout Sensor (PS102) (between the Cassette Pedestal Driver PCB (UN101/J2005) and the Cassette 4 Pullout Sensor) is shortened to GND using a tester.
04-0017	Multi-purpose Tray pickup retry error
A. Operation / B. Cause / C. Remedy	<p>Cause: Although pickup retry operation was performed predetermined number of times, paper could not be picked up.</p> <p>Detection condition/timing: When pickup jam occurred multiple times at the Multi-Purpose Tray</p> <p>Movement/symptom: It is possible that pickup jams have frequently occurred.</p> <p>Measures:</p> <ol style="list-style-type: none"> 1. Check the life of the MP Pickup Roller/Multi-purpose Tray Pullout Roller. => Check that there is no paper lint at the pickup slot. Replace the Pickup Roller if necessary. 2. Check if the harness of the Multi-Purpose Tray Pullout Sensor (PS72) (between the Feed/Drum Driver PCB (UN2/J219) and the Multi-Purpose Tray Pullout Sensor) is shortened to GND using a tester.

04-1537 Lifter alarm : Paper Deck

- A. Operation / B. Cause / C. Remedy**
- Cause:**
- Deck Lifter Motor alarm
 - The lifter cannot be lowered.
- Detection condition/timing:**
The Bottom Sensor or the Relay Sensor was not turned ON within the specified period of time when lowering the lifter.
- Movement/symptom:**
While failure has occurred (an alarm has occurred), the target paper source cannot be used because it is in no paper state.
- Message displayed on the Control Panel:**
Paper source needs to be checked. (Call service rep.)
- Measures:**
- Forcibly open the receptacle and check for any foreign matter in it.
 - Check that the Lifter Plate is not caught by the Side Guide.
 - Remove the Front Cover, and check that the lifter wire is properly installed (no coming off, disconnection, slack, or winding in the reverse direction).
 - If there is an error, repair it and close the receptacle.
 - Execute service mode: COPIER> FUNCTION> CLEAR> DK-RCV.
 - Execute the recovery command, and check that the Side Deck is initialized properly.
 - Push the Paper Supply Sensor and check that the Lifter Plate being lowered stops at the lowest position.
- 1) If it is not lowered:
- If it is not lowered and no motor drive sound is heard, check for improper connection of the connector (J303) of the Relay PCB (FM1-P802).
 - If it is not operated after checking the connector connection, replace the Relay PCB and the Lifter Motor in that order.
- 2) If it is lowered:
Check if the Lifter Plate stops at the bottom of the receptacle.

04-1539 Paper Surface Sensor alarm : Paper Deck

- A. Operation / B. Cause / C. Remedy**
- Cause:**
- Deck Lifter Motor alarm
 - The lifter cannot be raised.
- Detection condition/timing:**
The Paper Surface Sensor was not turned ON within the specified period of time when raising the lifter.
- Movement/symptom:**
While failure has occurred (an alarm has occurred), the target paper source cannot be used because it is in no paper state.
- Message displayed on the Control Panel:**
Paper source needs to be checked. (Call service rep.)
- Measures:**
- Forcibly open the receptacle.
 - Check that the Lifter Plate is not caught by the Side Guide.
 - Remove the Front Cover, and check that the lifter wire is properly installed (no coming off, disconnection, slack, or winding in the reverse direction).
 - Remove the Deck Right Cover.
 - Turn OFF/ON the main power switch.
 - Close the receptacle, and check if the Lifter Plate is raised from the right side.
- 1) If it is not raised:
- If it is not raised and no motor drive sound is heard, check for improper connection of the connector (J303) of the Relay PCB (FM1-P802) and the Paper Surface Sensor (PS6).
 - If it is not operated after checking the connector connection, replace the Paper Surface Sensor (PS6), the Relay PCB, and the Lifter Motor in that order.
- 2) If it is raised:
- Check if the Lifter Plate stops at the upper limit position.
 - Check for improper connection of the Paper Surface Sensor (PS6).
 - Check for any foreign matters on the bottom of the receptacle.
 - Replace the Bottom Sensor (PS9) and the Lower Limit Switch 3.

04-1542	Lifter upper limit alarm : Paper Deck
A. Operation / B. Cause / C. Remedy	<p>Cause: Deck Lifter upper limit detection alarm</p> <p>Detection condition/timing: The Upper Limit Sensor was turned ON while raising the lifter.</p> <p>Movement/symptom: While failure has occurred (an alarm has occurred), the target paper source cannot be used because it is in no paper state.</p> <p>Message displayed on the Control Panel: Paper source needs to be checked. (Call service rep.)</p> <p>Measures: - Check the position of the Lifter Plate. - Check for any improper connection, caught harness and disconnection of the Upper Limit Sensor 1 and 2 (PS3 and PS4). - Turn OFF/ON the main power switch, and check if the machine is recovered. If the machine is not recovered, replace the Upper Limit Sensor 1 and 2 (PS3 and PS4).</p>
04-1543	Lifter lower limit alarm : Paper Deck
A. Operation / B. Cause / C. Remedy	<p>Cause: Deck Lifter lower limit detection alarm</p> <p>Detection condition/timing: The Lower Limit Detection Switch was turned ON while lowering the lifter.</p> <p>Movement/symptom: While failure has occurred (an alarm has occurred), the target paper source cannot be used because it is in no paper state.</p> <p>Message displayed on the Control Panel: Paper source needs to be checked. (Call service rep.)</p> <p>Measures: - Check the position of the Lifter Plate. - Check for any improper connection, caught harness and disconnection of the Bottom Sensor (PS9) and the Lower Limit Detection Switch (SW3). - Turn OFF/ON the main power switch, and check if the machine is recovered. If the machine is not recovered, replace the Bottom Sensor (PS9) and the Lower Limit Detection Switch (SW3).</p>
04-1586	Deck interlock alarm : Paper Deck
A. Operation / B. Cause / C. Remedy	<p>Cause: Side Paper Deck interlock error</p> <p>Detection condition/timing: The interlock was not detected with the Receptacle Open/Close Sensor ON.</p> <p>Movement/symptom: While failure has occurred (an alarm has occurred), the target paper source cannot be used because it is in no paper state.</p> <p>Message displayed on the Control Panel: Paper source needs to be checked. (Call service rep.)</p> <p>Measures: - Check if the receptacle is halfway closed. - Remove the Deck Right Cover, and check for any improper connection, caught harness and disconnection of the Interlock Switch (SW1) and the Receptacle Open/Close Sensor (PS8). - Turn OFF/ON the main power switch, and check if the machine is recovered. If the machine is not recovered, close the receptacle, and check the operation of the Interlock Switch (SW1) and the Receptacle Open/Close Sensor (PS8). - Replace the Interlock Switch (SW1) and the Receptacle Open/Close Sensor (PS8).</p>

04-1587	Pickup Motor disengagement alarm : Paper Deck
A. Operation / B. Cause / C. Remedy	<p>Cause: Side Paper Deck Pickup Motor disengagement error</p> <p>Detection condition/timing: The HP Sensor did not respond when disengaging the Feed/Separation Roller.</p> <p>Movement/symptom: While failure has occurred (an alarm has occurred), the target paper source cannot be used because it is in no paper state.</p> <p>Message displayed on the Control Panel: Paper source needs to be checked. (Call service rep.)</p> <p>Measures:</p> <ul style="list-style-type: none"> - Remove the Top Cover. - Turn OFF/ON the main power switch. - Press the Receptacle Open/Close Button, and check if the Feed/Separation Roller is disengaged. <p>1) If it is not disengaged:</p> <ul style="list-style-type: none"> - Replace the Pickup Motor (M1). - Replace the Pickup Unit. <p>2) If it is disengaged: Check for any improper connection and caught harness of the Separation Roller Disengagement Sensor (PS7).</p>
04-1937	Lifter error detection alarm: High Capacity Cassette
A. Operation / B. Cause / C. Remedy	<p>Cause: Error in the Lifter paper height detection</p> <p>Detection condition/timing: When paper height was not detected within the specified period of time while lifting up the lifter</p> <p>Movement/symptom: While failure has occurred (an alarm has occurred), the target paper source cannot be used because it is in no paper state.</p> <p>Message displayed on the Control Panel: Check the paper source. (Contact the service technician)</p> <p>Measures:</p> <ul style="list-style-type: none"> - Check the harness between the High Capacity Cassette Driver PCB (UN104/J2008) and the High Capacity Cassette Paper Surface Sensor (PS107) for any abnormality. - Check the High Capacity Cassette Paper Surface Sensor (PS107) for any abnormality. - Check the harness between the High Capacity Cassette Driver PCB (UN104/J2008) and the High Capacity Cassette Lifter Motor (M105) for any abnormality. - Check the paper surface detection of the Pickup Unit. - Check the Pickup Roller of the Pickup Unit for any abnormality. - Check the motor, gear, timing belt for driving the lifter in the receptacle.
04-1942	Upper limit detection alarm: High Capacity Cassette
A. Operation / B. Cause / C. Remedy	<p>Cause: Upper limit of the lifter was detected.</p> <p>Detection condition/timing: When the upper limit was detected three times</p> <p>Movement/symptom: While failure has occurred (an alarm has occurred), the target paper source cannot be used because it is in no paper state.</p> <p>Message displayed on the Control Panel: Check the paper source. (Contact the service technician)</p> <p>Measures:</p> <ul style="list-style-type: none"> - Check for any foreign matter in the receptacle. - Check the harness between the High Capacity Cassette Driver PCB (UN104/J2004) and the High Capacity Cassette Upper Limit Sensor (PS113) for any abnormality. - Check the High Capacity Cassette Upper Limit Sensor (PS113) of the Pickup Unit for any abnormality. - Check the Pickup Roller of the Pickup Unit for any abnormality.

04-1976 Receptacle error detection alarm: High Capacity Cassette

A. Operation / B. Cause / C. Remedy	<p>Cause: Error in the sensor in the receptacle</p> <p>Detection condition/timing: - When shifting of paper stack was not detected three times within the specified period of time at paper stack shifting - When Right Deck paper loading detection failed three times although paper stack shift detection was turned ON within the specified period of time at paper stack shifting - When the Division Plate detection failed three times although the Division Plate Solenoid was turned ON at paper stack shifting - When the lifter HP detection failed three times within the specified period of time while the lifter was moving to the HP</p> <p>Movement/symptom: While failure has occurred (an alarm has occurred), the target paper source cannot be used because it is in no paper state.</p> <p>Message displayed on the Control Panel: Check the paper source. (Contact the service technician)</p> <p>Measures: - Check for any foreign matter in the receptacle. - Check the harness between the High Capacity Cassette Driver PCB (UN104/J2002) and the High Capacity Cassette Transit PCB (UN103/J2100) for any abnormality. - Check the harness connecting from the High Capacity Cassette Transit PCB (UN103/J2101) to the sensors (PS114, PS116, PS117, PS118, PS119, PS120, and PS121) for any abnormality. - Check the sensors (PS114, PS116, PS117, PS118, PS119, PS120, and PS121) for any abnormality. - Check the harness between the High Capacity Cassette Transit PCB (UN103/J2102) and the Division Plate Solenoid (SL101) for any abnormality. - Check the harness between the High Capacity Cassette Driver PCB (UN104/J2008) and the High Capacity Cassette Shift Motor (M106) for any abnormality. - Check the motor, gear, timing belt for shifting paper stack in the receptacle. - Check the Division Plate Solenoid (SL101) and Division Plate Position Sensor (PS117) in the receptacle. - Check the Right Tray and the High Capacity Cassette Lifter HP Sensor (PS114) in the receptacle. - Adjust the paper settings by referring to the Service Manual [High Capacity Cassette Pedestal > Adjustment > Switching the Size between LTR and A4].</p> <p>Method for clearing the alarm: 1. Perform a remedy for the failure. 2. Place paper in the Left Tray with no paper in the Right Tray, and close the receptacle. The alarm is cleared when shifting of stack is performed normally. 3. Press the [Status Monitor/Cancel] key, and check that the status of the Cassette 3 is "paper present".</p>
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06-0012 Fixing memory detection alarm

A. Operation / B. Cause / C. Remedy	<p>Cause: Memory of the Fixing Film Unit could not be detected.</p> <p>Measures: 1. Check the connection of the Fixing Unit, and check for any soiling or damage. 2. Check the connector of the Fixing Memory PCB (UN79). 3. Disconnect and then connect the connector (J122) of the DC Controller (UN1). 4. Replace the Fixing Film Unit. 5. Replace the DC Controller (UN1).</p>
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09-0010	Drum memory detection error (Y)
A. Operation / B. Cause / C. Remedy	<p>Cause: Memory of the Drum Unit (Y) could not be detected.</p> <p>Measures:</p> <ol style="list-style-type: none"> 1. Remove and then install the Drum Unit (Y). 2. Disconnect and then connect the connector (J6801) of the Drum Unit New/Old Sensor (Y) (UN70). 3. Disconnect and then connect the connector (J608) of the Process Unit Relay PCB (UN20). 4. Disconnect and then connect the connector (J607) of the Process Unit Relay PCB (UN20). 5. Disconnect and then connect the connector (J306) of the Front Driver PCB (UN3). 6. Disconnect and then connect the connector (J301) of the Front Driver PCB (UN3). 7. Disconnect and then connect the connector (J111) of the DC Controller PCB (UN1). 8. Replace the Drum Unit (Y). 9. Replace the Drum Unit New/Old Sensor (Y) (UN70). 10. Replace the Front Driver PCB (UN3). 11. Replace the DC Controller PCB (UN1).
09-0011	Drum memory detection error (M)
A. Operation / B. Cause / C. Remedy	<p>Cause: Memory of the Drum Unit (M) could not be detected.</p> <p>Measures:</p> <ol style="list-style-type: none"> 1. Remove and then install the Drum Unit (M). 2. Disconnect and then connect the connector (J6802) of the Drum Unit New/Old Sensor (M) (UN71). 3. Disconnect and then connect the connector (J608) of the Process Unit Relay PCB (UN20). 4. Disconnect and then connect the connector (J607) of the Process Unit Relay PCB (UN20). 5. Disconnect and then connect the connector (J306) of the Front Driver PCB (UN3). 6. Disconnect and then connect the connector (J301) of the Front Driver PCB (UN3). 7. Disconnect and then connect the connector (J111) of the DC Controller PCB (UN1). 8. Replace the Drum Unit (M). 9. Replace the Drum Unit New/Old Sensor (M) (UN71). 10. Replace the Front Driver PCB (UN3). 11. Replace the DC Controller PCB (UN1).
09-0012	Drum memory detection error (C)
A. Operation / B. Cause / C. Remedy	<p>Cause: Memory of the Drum Unit (C) could not be detected.</p> <p>Measures:</p> <ol style="list-style-type: none"> 1. Remove and then install the Drum Unit (C). 2. Disconnect and then connect the connector (J6803) of the Drum Unit New/Old Sensor (C) (UN72). 3. Disconnect and then connect the connector (J608) of the Process Unit Relay PCB (UN20). 4. Disconnect and then connect the connector (J607) of the Process Unit Relay PCB (UN20). 5. Disconnect and then connect the connector (J306) of the Front Driver PCB (UN3). 6. Disconnect and then connect the connector (J301) of the Front Driver PCB (UN3). 7. Disconnect and then connect the connector (J111) of the DC Controller PCB (UN1). 8. Replace the Drum Unit (C). 9. Replace the Drum Unit New/Old Sensor (C) (UN72). 10. Replace the Front Driver PCB (UN3). 11. Replace the DC Controller PCB (UN1).

09-0013	Drum memory detection error (Bk)
A. Operation / B. Cause / C. Remedy	<p>Cause: Memory of the Drum Unit (Bk) could not be detected.</p> <p>Measures:</p> <ol style="list-style-type: none"> 1. Remove and then install the Drum Unit (Bk). 2. Disconnect and then connect the connector (J6804) of the Drum Unit New/Old Sensor (Bk) (UN73). 3. Disconnect and then connect the connector (J608) of the Process Unit Relay PCB (UN20). 4. Disconnect and then connect the connector (J607) of the Process Unit Relay PCB (UN20). 5. Disconnect and then connect the connector (J306) of the Front Driver PCB (UN3). 6. Disconnect and then connect the connector (J301) of the Front Driver PCB (UN3). 7. Disconnect and then connect the connector (J111) of the DC Controller PCB (UN1). 8. Replace the Drum Unit (Bk). 9. Replace the Drum Unit New/Old Sensor (Bk) (UN73). 10. Replace the Front Driver PCB (UN3). 11. Replace the DC Controller PCB (UN1).
10-0001	Toner Low (Black) alarm
A. Operation / B. Cause / C. Remedy	<p>Low toner was detected and UGW generated an alarm.</p> <p>* Not displayed on service mode history due to the alarm being generated by UGW</p>
10-0002	Toner Low (Cyan) alarm
A. Operation / B. Cause / C. Remedy	<p>Low toner was detected and UGW generated an alarm.</p> <p>* Not displayed on service mode history due to the alarm being generated by UGW</p>
10-0003	Toner Low (Magenta) alarm
A. Operation / B. Cause / C. Remedy	<p>Low toner was detected and UGW generated an alarm.</p> <p>* Not displayed on service mode history due to the alarm being generated by UGW</p>
10-0004	Toner Low (Yellow) alarm
A. Operation / B. Cause / C. Remedy	<p>Low toner was detected and UGW generated an alarm.</p> <p>* Not displayed on service mode history due to the alarm being generated by UGW</p>
10-0006	Patch Sensor error 1
A. Operation / B. Cause / C. Remedy	<p>Movement: Patch control (not to execute Dmax, real-time multiple tone correction and ATR control)</p> <p>Cause: P-wave intensity of LED was out of the specified range (soiled window, failure of the sensor)</p> <p>Measures:</p> <ol style="list-style-type: none"> 1. Clean the window of the Patch Sensor, and execute light intensity correction. (Turn OFF and then ON the main power and execute the correction at warm-up rotation.) 2. Check the ITB (soiling, etc.). 3. Check the operation of the Registration Shutter Solenoid (SL1). 4. Check the connector between the DC Controller PCB (UN1) and the Patch Sensor (UN49). 5. Replace the Registration Patch Sensor Unit. 6. Replace the DC Controller PCB. (At this time, be sure to perform backup and restoration according to the steps to be taken before/after replacing the DC Controller.)
10-0007	Patch Sensor error 2
A. Operation / B. Cause / C. Remedy	<p>Movement: Patch control (not to execute Dmax, real-time multiple tone correction and ATR control)</p> <p>Cause: S-wave intensity of LED was out of the specified range (soiled window, failure of the sensor)</p> <p>Measures:</p> <ol style="list-style-type: none"> 1. Clean the window of the Patch Sensor, and execute light intensity correction. (Turn OFF and then ON the main power and execute the correction at warm-up rotation.) 2. Check the ITB (soiling, etc.). 3. Check the operation of the Registration Shutter Solenoid (SL1). 4. Check the connector between the DC Controller PCB (UN1) and the Patch Sensor (UN49). 5. Replace the Registration Patch Sensor Unit. 6. Replace the DC Controller PCB. (At this time, be sure to perform backup and restoration according to the steps to be taken before/after replacing the DC Controller.)
10-0017	Toner (Y) prior notification alarm
A. Operation / B. Cause / C. Remedy	<p>The life value of a target part reached the number of days left as set in COPIER > OPTION > PM-DLV-D > TONER-Y.</p>

10-0018	Toner (M) prior notification alarm
A. Operation / B. Cause / C. Remedy	The life value of a target part reached the number of days left as set in COPIER > OPTION > PM-DLV-D > TONER-M.
10-0019	Toner (C) prior notification alarm
A. Operation / B. Cause / C. Remedy	The life value of a target part reached the number of days left as set in COPIER > OPTION > PM-DLV-D > TONER-C.
10-0020	Toner (Bk) prior notification alarm
A. Operation / B. Cause / C. Remedy	The life value of a target part reached the number of days left as set in COPIER > OPTION > PM-DLV-D > TONER-K.
10-0022	Patch detection light intensity abnormal change alarm
A. Operation / B. Cause / C. Remedy	<p>Movement: Patch control (not to execute Dmax, real-time multiple tone correction and ATR control)</p> <p>Cause: The average P-wave light intensity was out of the specified range after light intensity correction</p> <p>Measures:</p> <ol style="list-style-type: none"> 1. Clean the window of the Patch Sensor (UN49), and execute light intensity correction. (Turn OFF and then ON the main power and execute the correction at warm-up rotation.) 2. Check the ITB (soiling, etc.). 3. Check the operation of the Registration Shutter Solenoid (SL1). 4. Check the connector between the DC Controller PCB (UN1) and the Patch Sensor (UN49). 5. Replace the Registration Patch Sensor Unit. 6. Replace the DC Controller PCB. (At this time, be sure to perform backup and restoration according to the steps to be taken before/after replacing the DC Controller.)
10-0091	Toner memory detection alarm (Y)
A. Operation / B. Cause / C. Remedy	<p>Cause: Memory of toner (Y) could not be detected.</p> <ol style="list-style-type: none"> 1. Remove and then install the Toner Bottle. 2. Check for any scar or soiling on the memory area of the Toner Bottle. 3. Check the connector between the Bottle New/Old Sensor (Y) (UN66) and the DC Controller PCB. 4. Check for any soiling or damage on the Bottle New/Old Sensor (Y) (UN66). 5. Replace the Toner Bottle (Y).
10-0092	Toner memory detection alarm (M)
A. Operation / B. Cause / C. Remedy	<p>Cause: Memory of toner (M) could not be detected.</p> <ol style="list-style-type: none"> 1. Remove and then install the Toner Bottle. 2. Check for any scar or soiling on the memory area of the Toner Bottle. 3. Check the connector between the Bottle New/Old Sensor (M) (UN67) and the DC Controller PCB. 4. Check for any soiling or damage on the Bottle New/Old Sensor (M) (UN67). 5. Replace the Toner Bottle (M).
10-0093	Toner memory detection alarm (C)
A. Operation / B. Cause / C. Remedy	<p>Cause: Memory of toner (C) could not be detected.</p> <ol style="list-style-type: none"> 1. Remove and then install the Toner Bottle. 2. Check for any scar or soiling on the memory area of the Toner Bottle. 3. Check the connector between the Bottle New/Old Sensor (C) (UN68) and the DC Controller PCB. 4. Check for any soiling or damage on the Bottle New/Old Sensor (C) (UN68). 5. Replace the Toner Bottle (C).
10-0094	Toner memory detection alarm (Bk)
A. Operation / B. Cause / C. Remedy	<p>Cause: Memory of toner (Bk) could not be detected.</p> <ol style="list-style-type: none"> 1. Remove and then install the Toner Bottle. 2. Check for any scar or soiling on the memory area of the Toner Bottle. 3. Check the connector between the Bottle New/Old Sensor (Bk) (UN69) and the DC Controller PCB. 4. Check for any soiling or damage on the Bottle New/Old Sensor (Bk) (UN69). 5. Replace the Toner Bottle (Bk).

10-0100	Toner Bottle replacement completion alarm
A. Operation / B. Cause / C. Remedy	Replacement of Toner Bottle was detected.
10-0401	Toner Bottle empty alarm (Y)
A. Operation / B. Cause / C. Remedy	Toner Bottle empty was detected.
10-0402	Toner Bottle empty alarm (M)
A. Operation / B. Cause / C. Remedy	Toner Bottle empty was detected.
10-0403	Toner Bottle empty alarm (C)
A. Operation / B. Cause / C. Remedy	Toner Bottle empty was detected.
10-0404	Toner Bottle empty alarm (Bk)
A. Operation / B. Cause / C. Remedy	Toner Bottle empty was detected.
10-F017	Toner (Y) high consumption alarm
A. Operation / B. Cause / C. Remedy	It was detected that the target part was at a high level of daily consumption.
10-F018	Toner (M) high consumption alarm
A. Operation / B. Cause / C. Remedy	It was detected that the target part was at a high level of daily consumption.
10-F019	Toner (C) high consumption alarm
A. Operation / B. Cause / C. Remedy	It was detected that the target part was at a high level of daily consumption.
10-F020	Toner (Bk) high consumption alarm
A. Operation / B. Cause / C. Remedy	It was detected that the target part was at a high level of daily consumption.
11-0001	Waste toner alarm
A. Operation / B. Cause / C. Remedy	The full Waste Toner Container was detected.
11-0010	Waste Toner Container prior notification
A. Operation / B. Cause / C. Remedy	Operation; A message is displayed on the Control Panel (printing is still possible) Cause: The following two conditions were met. - The Waste Toner Sensor PCB (UN75) detected waste toner. - The threshold number of days left as set in COPIER > OPTION > PM-DLV-D > WST-TNR was reached.
11-0100	Waste Toner Container replacement completion alarm
A. Operation / B. Cause / C. Remedy	Completion of Waste Toner Container replacement was detected.
11-F010	Waste Toner Container high consumption alarm
A. Operation / B. Cause / C. Remedy	It was detected that the target part was at a high level of daily consumption.
13-002C	For R&D
A. Operation / B. Cause / C. Remedy	
13-0051	For R&D
A. Operation / B. Cause / C. Remedy	

13-00FE	For R&D
A. Operation / B. Cause / C. Remedy	
13-00FF	For R&D
A. Operation / B. Cause / C. Remedy	
13-0100	For R&D
A. Operation / B. Cause / C. Remedy	
13-0FFC	For R&D
A. Operation / B. Cause / C. Remedy	
13-0FFD	For R&D
A. Operation / B. Cause / C. Remedy	
13-0FFE	For R&D
A. Operation / B. Cause / C. Remedy	
13-0FFF	For R&D
A. Operation / B. Cause / C. Remedy	
14-0000	For R&D
A. Operation / B. Cause / C. Remedy	
14-0001	For R&D
A. Operation / B. Cause / C. Remedy	
14-1000	For R&D
A. Operation / B. Cause / C. Remedy	
31-0006	HDD failure when equipped with the mirroring function
A. Operation / B. Cause / C. Remedy	HDD failure when equipped with the mirroring function
31-0008	HDD failure prediction alarm
A. Operation / B. Cause / C. Remedy	<p>Movement: HDD failure is expected to occur in a short time due to occurrence of physical error in HDD. It does not occur in the HDD of mirroring configuration.</p> <p>Cause: Error in the S.M.A.R.T. value of HDD</p> <p>Measures:</p> <ol style="list-style-type: none"> 1. Back up the data stored in HDD. 2. Replace the HDD. 3. Restore the data. <p>S.M.A.R.T. (Self-Monitoring Analysis and Reporting Technology): Self-diagnosis function built in the HDD. The occurrence rate of reading error, reading and writing speed, the total number of Motor start-up and stop times, the total length of power-on time, etc. are monitored.</p>

31-0009	FLASH failure prediction alarm
A. Operation / B. Cause / C. Remedy	<p>Cause: Error in the S.M.A.R.T. value of FLASH memory It indicates a physical error of the FLASH memory, which is expected to soon lead to a failure.</p> <p>*: S.M.A.R.T. (Self-Monitoring Analysis and Reporting Technology) = It is a self-diagnosis function built in the FLASH memory, and monitors the occurrence rate of reading errors, reading/writing speed, total number of times of motor start-up/stop, total length of power-on time, etc.</p> <p>Continuously using the machine without taking any measures may lead to E614.</p> <p>Measures: Back up the data stored in the FLASH memory, and restore the data after replacing the FLASH memory.</p>
31-0010	The configuration of an option controlled by the Main Controller has been changed
A. Operation / B. Cause / C. Remedy	<p>A change in configuration of an option such as a change in the configuration of the Fax Board, a change in the configuration of the Voice Board, or a change in the configuration of the option HDD, which requires turning OFF and then ON the power, was detected.</p> <p>Detection condition/timing:At the time of startup only</p> <p>Remedy:Turn OFF and then ON the main power.</p>
31-0020	The configuration of an option controlled by the RCON has been changed
A. Operation / B. Cause / C. Remedy	<p>Due to a change in the configuration related to the scanner, a change in the hardware configuration which requires turning OFF and then ON the power was detected.</p> <p>Detection condition/timing:At the time of startup only</p> <p>Remedy:Turn OFF and then ON the main power.</p>
31-0030	The configuration of an option controlled by the DCON has been changed
A. Operation / B. Cause / C. Remedy	<p>Due to a change in the configuration related to the printer, a change in the hardware configuration which requires turning OFF and then ON the power was detected.</p> <p>Detection condition/timing:At the time of startup only</p> <p>Remedy:Turn OFF and then ON the main power.</p>
31-0040	Communication with RTC was not available.
A. Operation / B. Cause / C. Remedy	<p>Cause: Communication with RTC could not be established.</p> <p>Detection condition/timing: - When a communication error occurred with RTC</p> <p>Movement/symptom: - FCOT may become longer.</p> <p>Measures: Replace the DC Controller PCB.</p>
31-0051	External Environment Sensor temperature upper limit detection alarm
A. Operation / B. Cause / C. Remedy	<p>Cause: External Temperature Sensor error (A temperature higher than the specified value was detected.)</p> <p>Detection condition/timing: - Detection is always performed and an alarm occurs when a value that exceeds the threshold value is detected.</p> <p>Movement/symptom: - While failure has occurred (an alarm has occurred), color displacement/density error, or toner scattering inside the machine in the worst case may occur.</p> <p>Measures: 1. Disconnect and then connect the connector of the Environment Sensor (UN50). 2. Disconnect and then connect the connector (J171) of the DC Controller PCB. 3. Check if the harness of the External Temperature Sensor is short circuit. 4. Replace the Environment Sensor (UN50). 5. Replace the DC Controller PCB.</p>

31-0052	External Environment Sensor temperature lower limit detection alarm
A. Operation / B. Cause / C. Remedy	<p>Cause: External Temperature Sensor error (A temperature lower than the specified value was detected.)</p> <p>Detection condition/timing: - Detection is always performed and an alarm occurs when a value that exceeds the threshold value is detected.</p> <p>Movement/symptom: - While failure has occurred (an alarm has occurred), color displacement/density error, or toner scattering inside the machine in the worst case may occur.</p> <p>Measures:</p> <ol style="list-style-type: none"> 1. Disconnect and then connect the connector of the Environment Sensor (UN50). 2. Disconnect and then connect the connector (J171) of the DC Controller PCB. 3. Check if the harness of the Environment Sensor is open circuit. 4. Replace the Environment Sensor (UN50). 5. Replace the DC Controller PCB.
31-0053	External Environment Sensor humidity upper limit detection alarm
A. Operation / B. Cause / C. Remedy	<p>Cause: External Temperature Sensor error (A temperature higher than the specified value was detected.)</p> <p>Detection condition/timing: - Detection is always performed and an alarm occurs when a value that exceeds the threshold value is detected.</p> <p>Movement/symptom: - While failure has occurred (an alarm has occurred), color displacement/density error, or toner scattering inside the machine in the worst case may occur.</p> <p>Measures:</p> <ol style="list-style-type: none"> 1. Disconnect and then connect the connector of the Environment Sensor (UN50). 2. Disconnect and then connect the connector (J171) of the DC Controller PCB. 3. Check if the harness of the Environment Sensor is open circuit. 4. Replace the Environment Sensor (UN50). 5. Replace the DC Controller PCB.
31-0054	Internal Environment Sensor temperature upper limit detection alarm
A. Operation / B. Cause / C. Remedy	<p>Cause: Internal Temperature Sensor error (A temperature was higher than the specified value.)</p> <p>Detection condition/timing: - Detection is always performed and an alarm occurs when a value that exceeds the threshold value is detected.</p> <p>Movement/symptom: - While failure has occurred (an alarm has occurred), color displacement/density error, or toner scattering inside the machine in the worst case may occur.</p> <p>Measures:</p> <ol style="list-style-type: none"> 1. Disconnect and then connect the connector of the Internal Temperature Sensor (UN22). 2. Disconnect and then connect the connector (J171) of the DC Controller PCB. 3. Check if the harness of the Internal Temperature Sensor is short circuit. 4. Replace the Internal Temperature Sensor (UN22). 5. Replace the DC Controller PCB.
31-0055	Internal Environment Sensor temperature lower limit detection alarm
A. Operation / B. Cause / C. Remedy	<p>Cause: Internal Temperature Sensor error (A temperature was lower than the specified value.)</p> <p>Detection condition/timing: - Detection is always performed and an alarm occurs when a value that exceeds the threshold value is detected.</p> <p>Movement/symptom: - While failure has occurred (an alarm has occurred), color displacement/density error, or toner scattering inside the machine in the worst case may occur.</p> <p>Measures:</p> <ol style="list-style-type: none"> 1. Disconnect and then connect the connector of the Internal Temperature Sensor (UN22). 2. Disconnect and then connect the connector (J171) of the DC Controller PCB. 3. Check if the harness of the Internal Temperature Sensor is open circuit. 4. Replace the Internal Temperature Sensor (UN22). 5. Replace the DC Controller PCB.

31-0106	For R&D
A. Operation / B. Cause / C. Remedy	
31-0116	For R&D
A. Operation / B. Cause / C. Remedy	
31-0126	For R&D
A. Operation / B. Cause / C. Remedy	
31-0136	For R&D
A. Operation / B. Cause / C. Remedy	
31-01F1	For R&D
A. Operation / B. Cause / C. Remedy	
31-01F2	For R&D
A. Operation / B. Cause / C. Remedy	
31-01F3	For R&D
A. Operation / B. Cause / C. Remedy	
31-01F4	For R&D
A. Operation / B. Cause / C. Remedy	
31-01F5	For R&D
A. Operation / B. Cause / C. Remedy	
31-01F6	For R&D
A. Operation / B. Cause / C. Remedy	
33-0011	Fixing Cooling Fan error
A. Operation / B. Cause / C. Remedy	<p>Movement: While an alarm has occurred, productivity is decreased.</p> <p>Cause: At rotation of the Fixing Cooling Fan, rotation of the fan cannot be detected for a specified period of time.</p> <p>Clearing: When rotation of the Fixing Cooling Fan can be detected</p> <p>Measures: Perform the measures in the order shown below.</p> <ol style="list-style-type: none"> 1. Check the harness of the Fixing Cooling Fan (Front) (the caught cable, open circuit, connector disconnection). Feed/Drum Driver PCB (UN2) J213 to J6068 2. Check the harness of the Fixing Cooling Fan (Rear) (FM6) (the caught cable, open circuit, connector disconnection). Feed/Drum Driver PCB (UN2) J213 to J6069 3. Replace the Feed/Drum Driver PCB (UN2). 4. Replace the Fixing Cooling Fan (Front) (FM5). 5. Replace the Fixing Cooling Fan (Rear) (FM6).

34-0003	Auto registration adjustment
A. Operation / B. Cause / C. Remedy	<p>Cause:</p> <ul style="list-style-type: none"> - Timeout occurred due to failure of reading 10 sets of auto registration patterns. - Failure of the Registration Sensor, the Registration Sensor Cleaning Member covered the Registration Sensor, or no image was formed on the belt. <p>Detection condition/timing:</p> <ul style="list-style-type: none"> - When Auto Correct Color Mismatch is executed <p>Movement/symptom:</p> <ul style="list-style-type: none"> - Color displacement may occur because the result of auto registration is not reflected. <p>Measures:</p> <ol style="list-style-type: none"> 1. Check the condition of the Drum Units (Y, M, C, Bk), and remove and then install them again. 2. Execute (Lv2) COPIER > FUNCTION > CLEAR > REG-CLR. 3. Execute (Lv2) COPIER > FUNCTION > LASER > LD-ADJ-X (X=Y,M,C,K), and end the operation if the problem is solved. 4. Check if the link of the Registration Shutter is disengaged. 5. Check if the windows of the Registration Sensor (Front) (UN47), Registration Sensor (Rear) (UN48) and the Patch Sensor (UN49) are soiled. If necessary, clean it. 6. Check for any disconnection of the connectors of the Registration Sensor (Front) (UN47), Registration Sensor (Rear) (UN48) and the Patch Sensor (UN49). 7. Check for disconnection of the connector (J125) of the DC Controller PCB (UN1). 8. Replace the Developing Units (Y, M, C, Bk). 9. Replace the Pattern Reading Shutter Drive Assembly (FM1-N636: PATT. READ SHUTTER DRIVE ASS'Y). 10. Replace the Registration Patch Sensor Unit. 11. Replace the DC Controller PCB (UN1).
38-0001	For R&D
A. Operation / B. Cause / C. Remedy	-
38-0002	For R&D
A. Operation / B. Cause / C. Remedy	-
38-0101	Application-generated alarm
A. Operation / B. Cause / C. Remedy	<p>Data Backup Service Application Error (Error by the rock-out of the Device Configuration Management function), Error message (E-code: EBD0001) * This alarm is not displayed on LUI due to the alarm being generated by the application.</p>
38-0102	Application-generated alarm
A. Operation / B. Cause / C. Remedy	<p>Data Backup Service Application Error (Error when Device Configuration Management data export), Error message (E-code: EBD0002) * This alarm is not displayed on LUI due to the alarm being generated by the application.</p>
38-0103	Application-generated alarm
A. Operation / B. Cause / C. Remedy	<p>Data Backup Service Application Error (Error for MDAS4BR not to be available), Error message (E-code: EBD0003) * This alarm is not displayed on LUI due to the alarm being generated by the application.</p>
38-0104	Application-generated alarm
A. Operation / B. Cause / C. Remedy	<p>Data Backup Service Application Error (Error when Address book (ADB) folder setting export), Error message (E-code: EBA0001) * This alarm is not displayed on LUI due to the alarm being generated by the application.</p>
38-0105	Application-generated alarm
A. Operation / B. Cause / C. Remedy	<p>Data Backup Service Application Error (Error with the expiration of the start time for scheduled backup), Error message (E-code: EBS9997) * This alarm is not displayed on LUI due to the alarm being generated by the application.</p>

38-0106	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Data Backup Service Application Error (Error with the power supply of the device having been shut down forcibly), Error message (E-code: EBS9998) * This alarm is not displayed on LUI due to the alarm being generated by the application.
38-0107	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Data Backup Service Application Error (System error of the export), Error message (E-code: EBS9999) * This alarm is not displayed on LUI due to the alarm being generated by the application.
38-0108	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Data Backup Service Application Error (Communication error with CBIO backup service (DCFS)), Error message (E-code: EBC0001) * This alarm is not displayed on LUI due to the alarm being generated by the application.
38-0109	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Data Backup Service Application Error (Error on the CBIO backup service (DCFS) side), Error message (E-code: EBC0002) * This alarm is not displayed on LUI due to the alarm being generated by the application.
38-0110	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Data Backup Service Application Error (Error with the backup refusal on the CBIO backup service (DCFS) side), Error message (E-code: EBC0003) * This alarm is not displayed on LUI due to the alarm being generated by the application.
38-0111	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Data Backup Service Application Error (System error by the communication with CBIO backup service (DCFS)), Error message (E-code: EBC9999) * This alarm is not displayed on LUI due to the alarm being generated by the application.
38-0112	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Data Backup Service Application Error (Error for Access Token Provider to be unconnected, or not to be installed), Error message (E-code: EAC0001) * This alarm is not displayed on LUI due to the alarm being generated by the application.
38-0113	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Data Backup Service Application Error (Error by the certification failure of the Access Token Provider), Error message (E-code: EAC0002) * This alarm is not displayed on LUI due to the alarm being generated by the application.
38-0114	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Data Backup Service Application Error (Error of the communication time-out of the Access Token Provider), Error message (E-code: EAC0003) * This alarm is not displayed on LUI due to the alarm being generated by the application.
38-0115	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Data Backup Service Application Error (Communication error of the Access Token Provider by the network origin at proxy effective time), Error message (E-code: EAC0004) * This alarm is not displayed on LUI due to the alarm being generated by the application.
38-0116	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Data Backup Service Application Error (The error that proxy connection of the Access Token Provider failed in at proxy effective time), Error message (E-code: EAC0005) * This alarm is not displayed on LUI due to the alarm being generated by the application.

38-0117	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Data Backup Service Application Error (Communication error of the Access Token Provider by the network origin at the time of proxy invalidity), Error message (E-code: EAC0006) * This alarm is not displayed on LUI due to the alarm being generated by the application.
38-0118	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Data Backup Service Application Error (Communication error of the Access Token Provider that name solution was not possible), Error message (E-code: EAC0007) * This alarm is not displayed on LUI due to the alarm being generated by the application.
38-0119	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Data Backup Service Application Error (System error of the Access Token Provider in other factors), Error message (E-code: EAC9999) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0111	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Error message (E-code) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0210	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Inside the machine_Not specified * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0211	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Inside the machine_Frequently * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0212	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Inside the machine_Occasionally * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0213	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Inside the machine_First time in the day * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0220	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Document Feeder_Not specified * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0221	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Document Feeder_Frequently * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0222	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Document Feeder_Occasionally * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0223	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Document Feeder_First time in the day * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-0230	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Cassette_Not specified * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0231	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Cassette_Cassette 1 * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0232	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Cassette_Cassette 2 * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0233	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Cassette_Cassette 3 * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0234	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Cassette_Cassette 4 * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0235	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Spare (Not selectable) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0240	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Multi-purpose Tray_Not specified * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0241	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Multi-purpose Tray_Envelope * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0242	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Multi-purpose Tray_Postcard * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0243	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Multi-purpose Tray_Plain paper * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0244	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Multi-purpose Tray_Label paper * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0245	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Multi-purpose Tray_Heavy paper * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-0250	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Outlet_Not specified * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0251	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Outlet_Frequently * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0252	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Outlet_Occasionally * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0253	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Outlet_First time in the day * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0260	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_At 2-sided printing_Not specified * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0261	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_At 2-sided printing_Frequently * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0262	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_At 2-sided printing_Occasionally * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0263	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_At 2-sided printing_First time in the day * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0290	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Others * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0310	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Displacement_Color not specified * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0311	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Displacement_Black * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0312	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Displacement_Yellow * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-0313	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Displacement_Magenta * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0314	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Displacement_Cyan * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0320	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Blank image_Color not specified * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0321	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Blank image_Black * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0322	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Blank image_Yellow * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0323	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Blank image_Magenta * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0324	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Blank image_Cyan * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0330	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Soiling_Color not specified * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0331	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Soiling_Black * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0332	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Soiling_Yellow * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0333	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Soiling_Magenta * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0334	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Soiling_Cyan * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-0340	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Lines_Color not specified * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0341	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Lines_Black * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0342	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Lines_Yellow * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0343	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Lines_Magenta * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0344	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Lines_Cyan * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0350	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Light_Color not specified * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0351	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Light_Black * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0352	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Light_Yellow * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0353	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Light_Magenta * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0354	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Light_Cyan * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0360	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Hue_Color not specified * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0361	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Hue_Black * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-0362	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Hue_Yellow * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0363	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Hue_Magenta * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0364	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Hue_Cyan * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0370	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Dark_Color not specified * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0371	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Dark_Black * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0372	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Dark_Yellow * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0373	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Dark_Magenta * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0374	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Dark_Cyan * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0380	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Color displacement_Color not specified * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0381	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Color displacement_Black * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0382	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Color displacement_Yellow * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0383	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Color displacement_Magenta * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-0384	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Color displacement_Cyan * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0390	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Others * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0511	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Print * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0520	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Fax_Not specified * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0521	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Fax_Transmission and reception * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0522	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Fax_Reception * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0523	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Fax_Transmission * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0524	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Fax_Forwarding * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0530	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Control Panel_Not specified * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0531	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Control Panel_Slow response * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0532	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Control Panel_Occasional freeze-up (Not work) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0541	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Scan (SEND) * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-0551	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Abnormal noise_Main * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0552	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Abnormal noise_Options * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0590	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Others * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0611	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Training * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0612	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Addition * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0621	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Forwarding_Fax * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0622	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Forwarding_SEND * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0631	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Printer driver installation * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0641	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Address book * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0651	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Network * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0690	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Others * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0811	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Order_Toner_Black * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-0812	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Order_Toner_Yellow * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0813	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Order_Toner_Magenta * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0814	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Order_Toner_Cyan * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-0821	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Order_Waste Toner Container * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1111	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Error message (E-code)_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1210	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Inside the machine_Not specified_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1211	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Inside the machine_Frequently_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1212	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Inside the machine_Occasionally_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1213	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Inside the machine_First time in the day_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1220	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Document Feeder_Not specified_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1221	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Document Feeder_Frequently_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1222	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Document Feeder_Occasionally_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-1223	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Document Feeder_First time in the day_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1230	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Cassette_Not specified_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1231	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Cassette_Cassette 1_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1232	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Cassette_Cassette 2_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1233	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Cassette_Cassette 3_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1234	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Cassette_Cassette 4_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1235	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Spare (Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1240	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Multi-purpose Tray_Not specified_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1241	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Multi-purpose Tray_Envelope_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1242	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Multi-purpose Tray_Postcard_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1243	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Multi-purpose Tray_Plain paper_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1244	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Multi-purpose Tray_Label paper_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-1245	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Multi-purpose Tray_Heavy paper_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1250	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Outlet_Not specified_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1251	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Outlet_Frequently_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1252	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Outlet_Occasionally_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1253	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Outlet_First time in the day_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1260	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_At 2-sided printing_Not specified_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1261	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_At 2-sided printing_Frequently_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1262	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_At 2-sided printing_Occasionally_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1263	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_At 2-sided printing_First time in the day_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1290	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Others_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1310	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Displacement_Color not specified_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1311	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Displacement_Black_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-1312	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Displacement_Yellow_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1313	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Displacement_Magenta_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1314	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Displacement_Cyan_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1320	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Blank image_Color not specified_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1321	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Blank image_Black_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1322	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Blank image_Yellow_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1323	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Blank image_Magenta_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1324	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Blank image_Cyan_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1330	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Soiling_Color not specified_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1331	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Soiling_Black_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1332	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Soiling_Yellow_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1333	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Soiling_Magenta_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-1334	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Soiling_Cyan_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1340	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Lines_Color not specified_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1341	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Lines_Black_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1342	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Lines_Yellow_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1343	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Lines_Magenta_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1344	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Lines_Cyan_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1350	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Light_Color not specified_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1351	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Light_Black_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1352	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Light_Yellow_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1353	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Light_Magenta_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1354	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Light_Cyan_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1360	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Hue_Color not specified_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-1361	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Hue_Black_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1362	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Hue_Yellow_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1363	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Hue_Magenta_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1364	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Hue_Cyan_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1370	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Dark_Color not specified_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1371	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Dark_Black_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1372	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Dark_Yellow_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1373	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Dark_Magenta_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1374	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Dark_Cyan_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1380	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Color displacement_Color not specified_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1381	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Color displacement_Black_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1382	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Color displacement_Yellow_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-1383	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Color displacement_Magenta_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1384	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Color displacement_Cyan_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1390	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Others_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1511	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Print_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1520	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Fax_Not specified_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1521	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Fax_Transmission and reception_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1522	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Fax_Reception_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1523	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Fax_Transmission_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1524	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Fax_Forwarding_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1530	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Control Panel_Not specified_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1531	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Control Panel_Slow response_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1532	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Control Panel_Occasional freeze-up (Not work)_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-1541	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Scan (SEND)_ (Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1551	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Abnormal noise_Main_ (Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1552	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Abnormal noise_Options_ (Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1590	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Others_ (Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1611	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Training_ (Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1612	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Addition_ (Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1621	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Forwarding_Fax_ (Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1622	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Forwarding_SEND_ (Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1631	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Printer driver installation_ (Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1641	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Address book_ (Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1651	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Network_ (Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1690	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Others_ (Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-1811	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Order_Toner_Black_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1812	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Order_Toner_Yellow_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1813	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Order_Toner_Magenta_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1814	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Order_Toner_Cyan_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-1821	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Order_Waste Toner Container_(Cancel) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-19EE	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Test signal * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-19FF	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Remedy completed * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2111	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Error message (E-code)_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2210	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Inside the machine_Not specified_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2211	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Inside the machine_Frequently_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2212	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Inside the machine_Occasionally_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2213	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Inside the machine_First time in the day_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-2220	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Document Feeder_Not specified_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2221	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Document Feeder_Frequently_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2222	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Document Feeder_Occasionally_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2223	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Document Feeder_First time in the day_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2230	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Cassette_Not specified_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2231	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Cassette_Cassette 1_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2232	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Cassette_Cassette 2_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2233	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Cassette_Cassette 3_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2234	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Cassette_Cassette 4_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2240	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Multi-purpose Tray_Not specified_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2241	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Multi-purpose Tray_Envelope_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2242	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Multi-purpose Tray_Postcard_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-2243	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Multi-purpose Tray_Plain paper_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2244	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Multi-purpose Tray_Label paper_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2245	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Multi-purpose Tray_Heavy paper_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2250	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Outlet_Not specified_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2251	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Outlet_Frequently_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2252	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Outlet_Occasionally_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2253	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Outlet_First time in the day_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2260	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_At 2-sided printing_Not specified_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2261	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_At 2-sided printing_Frequently_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2262	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_At 2-sided printing_Occasionally_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2263	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_At 2-sided printing_First time in the day_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2290	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Paper jam_Others_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-2310	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Displacement_Color not specified_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2311	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Displacement_Black_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2312	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Displacement_Yellow_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2313	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Displacement_Magenta_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2314	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Displacement_Cyan_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2320	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Blank image_Color not specified_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2321	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Blank image_Black_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2322	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Blank image_Yellow_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2323	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Blank image_Magenta_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2324	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Blank image_Cyan_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2330	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Soiling_Color not specified_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2331	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Soiling_Black_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-2332	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Soiling_Yellow_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2333	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Soiling_Magenta_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2334	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Soiling_Cyan_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2340	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Lines_Color not specified_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2341	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Lines_Black_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2342	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Lines_Yellow_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2343	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Lines_Magenta_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2344	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Lines_Cyan_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2350	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Light_Color not specified_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2351	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Light_Black_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2352	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Light_Yellow_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2353	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Light_Magenta_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-2354	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Light_Cyan_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2360	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Hue_Color not specified_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2361	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Hue_Black_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2362	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Hue_Yellow_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2363	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Hue_Magenta_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2364	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Hue_Cyan_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2370	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Dark_Color not specified_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2371	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Dark_Black_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2372	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Dark_Yellow_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2373	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Dark_Magenta_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2374	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Dark_Cyan_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2380	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Color displacement_Color not specified_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-2381	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Color displacement_Black_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2382	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Color displacement_Yellow_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2383	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Color displacement_Magenta_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2384	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Color displacement_Cyan_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2390	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Image failure_Others_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2511	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Print_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2520	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Fax_Not specified_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2521	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Fax_Transmission and reception_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2522	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Fax_Reception_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2523	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Fax_Transmission_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2524	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Fax_Forwarding_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2530	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Control Panel_Not specified_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-2531	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Control Panel_Slow response_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2532	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Control Panel_Occasional freeze-up (Not work)_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2541	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Scan (SEND)_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2551	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Abnormal noise_Main_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2552	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Abnormal noise_Options_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2590	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Operation failure_Others_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2611	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Training_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2612	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Addition_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2621	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Forwarding_Fax_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2622	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Forwarding_SEND_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2631	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Printer driver installation_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2641	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Address book_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.

39-2651	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Network_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2690	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Settings_Others_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2811	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Order_Toner_Black_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2812	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Order_Toner_Yellow_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2813	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Order_Toner_Magenta_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2814	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Order_Toner_Cyan_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
39-2821	Application-generated alarm
A. Operation / B. Cause / C. Remedy	Service call application Order_Waste Toner Container_(Customer information change) * This alarm is not displayed on LUI due to the alarm being generated by the application.
40-0006	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0070	Drum Unit (Y) prior notification alarm
A. Operation / B. Cause / C. Remedy	The life value of a target part reached the number of days left as set in COPIER > OPTION > PM-DLV-D > PT-DR-Y.
40-0071	Drum Unit (M) prior notification alarm
A. Operation / B. Cause / C. Remedy	The life value of a target part reached the number of days left as set in COPIER > OPTION > PM-DLV-D > PT-DR-M.
40-0072	Drum Unit (C) prior notification alarm
A. Operation / B. Cause / C. Remedy	The life value of a target part reached the number of days left as set in COPIER > OPTION > PM-DLV-D > PT-DR-C.
40-0073	Drum Unit (Bk) prior notification alarm
A. Operation / B. Cause / C. Remedy	The life value of a target part reached the number of days left as set in COPIER > OPTION > PM-DLV-D > PT-DRM.
40-0077	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0078	For R&D
A. Operation / B. Cause / C. Remedy	-

40-0079	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0080	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0081	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0082	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0083	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0084	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0085	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0086	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0087	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0088	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0089	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0090	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0091	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0092	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0120	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0121	For R&D
A. Operation / B. Cause / C. Remedy	-

40-0122	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0123	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0125	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0293	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0358	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0359	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0360	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0370	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0381	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0388	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0393	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0398	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0425	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0451	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0482	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0510	For R&D
A. Operation / B. Cause / C. Remedy	-

40-0573	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0574	For R&D
A. Operation / B. Cause / C. Remedy	-
40-0575	For R&D
A. Operation / B. Cause / C. Remedy	-
43-0006	ITB replacement completion alarm
A. Operation / B. Cause / C. Remedy	ITB counter was cleared.
43-0070	Drum Unit (Y) replacement completion alarm
A. Operation / B. Cause / C. Remedy	Replacement of Drum Unit was detected.
43-0071	Drum Unit (M) replacement completion alarm
A. Operation / B. Cause / C. Remedy	Replacement of Drum Unit was detected.
43-0072	Drum Unit (C) replacement completion alarm
A. Operation / B. Cause / C. Remedy	Replacement of Drum Unit was detected.
43-0073	Drum Unit (Bk) replacement completion alarm
A. Operation / B. Cause / C. Remedy	Replacement of Drum Unit was detected.
43-0077	Multi-purpose Tray Feed Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	Multi-purpose Tray Feed Roller counter was cleared.
43-0078	Multi-purpose Tray Separation Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	Multi-purpose Tray Separation Roller counter was cleared.
43-0079	Cassette 1 Pickup Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	Cassette 1 Pickup Roller counter was cleared.
43-0080	Cassette 1 Feed Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	Cassette 1 Feed Roller counter was cleared.
43-0081	Cassette 1 Separation Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	Cassette 1 Separation Roller counter was cleared.
43-0082	Cassette 2 Pickup Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	Cassette 2 Pickup Roller counter was cleared.
43-0083	Cassette 2 Feed Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	Cassette 2 Feed Roller counter was cleared.
43-0084	Cassette 2 Separation Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	Cassette 2 Separation Roller counter was cleared.

43-0085	Cassette 3 Pickup Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	Cassette 3 Pickup Roller counter was cleared.
43-0086	Cassette 3 Feed Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	Cassette 3 Feed Roller counter was cleared.
43-0087	Cassette 3 Separation Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	Cassette 3 Separation Roller counter was cleared.
43-0088	Cassette 4 Pickup Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	Cassette 4 Pickup Roller counter was cleared.
43-0089	Cassette 4 Feed Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	Cassette 4 Feed Roller counter was cleared.
43-0090	Cassette 4 Separation Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	Cassette 4 Separation Roller counter was cleared.
43-0091	Feed Roller (DADF) replacement completion alarm
A. Operation / B. Cause / C. Remedy	Feed Roller (DADF) counter was cleared.
43-0092	Separation Roller (DADF) replacement completion alarm
A. Operation / B. Cause / C. Remedy	Separation Roller (DADF) counter was cleared.
43-0120	Developing Assembly (Y) replacement completion alarm
A. Operation / B. Cause / C. Remedy	Developing Assembly (Y) counter was cleared.
43-0121	Developing Assembly (M) replacement completion alarm
A. Operation / B. Cause / C. Remedy	Developing Assembly (M) counter was cleared.
43-0122	Developing Assembly (C) replacement completion alarm
A. Operation / B. Cause / C. Remedy	Developing Assembly (C) counter was cleared.
43-0123	Developing Assembly replacement completion alarm
A. Operation / B. Cause / C. Remedy	Developing Assembly (Bk) counter was cleared.
43-0125	Pickup Roller (DADF) replacement completion alarm
A. Operation / B. Cause / C. Remedy	Pickup Roller (DADF) counter was cleared
43-0293	Primary Transfer Roller (Bk) replacement completion alarm
A. Operation / B. Cause / C. Remedy	Primary Transfer Roller (Bk) counter was cleared.
43-0358	Primary Transfer Roller (Y/M/C) replacement completion alarm
A. Operation / B. Cause / C. Remedy	Primary Transfer Roller (Y/M/C) counter was cleared.
43-0359	Secondary Transfer Outer Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	Secondary Transfer Outer Roller counter was cleared.

43-0360	Secondary Transfer Inner Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	Secondary Transfer Inner Roller counter was cleared.
43-0370	ITB Cleaning Blade replacement completion alarm
A. Operation / B. Cause / C. Remedy	ITB Cleaning Blade counter was cleared.
43-0381	Transfer Separation Guide Unit replacement completion alarm
A. Operation / B. Cause / C. Remedy	Transfer Separation Guide Unit counter was cleared.
43-0388	Fixing Film Unit replacement completion alarm
A. Operation / B. Cause / C. Remedy	Replacement of Fixing Film Unit was detected.
43-0393	Fixing Bearing replacement completion alarm
A. Operation / B. Cause / C. Remedy	Fixing Bearing counter was cleared
43-0398	Pressure Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	Pressure Roller counter was cleared.
43-0425	Fixing Gear replacement completion alarm
A. Operation / B. Cause / C. Remedy	Fixing Gear counter was cleared.
43-0451	Multi-purpose Tray Pickup Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	Multi-purpose Tray Pickup Roller counter was cleared.
43-0482	Toner Filter replacement completion alarm
A. Operation / B. Cause / C. Remedy	Toner Filter counter was cleared.
43-0510	Pre-Separation Unit (DADF) replacement completion alarm
A. Operation / B. Cause / C. Remedy	Pre-Separation Unit (DADF) counter was cleared.
43-0573	High Capacity Cassette Feed Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	High Capacity Cassette Feed Roller counter was cleared.
43-0574	High Capacity Cassette Pickup Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	High Capacity Cassette Pickup Roller counter was cleared.
43-0575	High Capacity Cassette Separation Roller replacement completion alarm
A. Operation / B. Cause / C. Remedy	High Capacity Cassette Separation Roller counter was cleared.
50-0010	Successive occurrence of separation alarm
A. Operation / B. Cause / C. Remedy	Condition unable to separate 1st sheet of original from the ADF occurs 3 times in a row. Check rotation of the Pickup Motor -> Check the life of the Pickup Roller -> Check if paper lint is at the pickup slot.
50-0014	Insufficient Scanner Unit (Paper Back) LED light intensity alarm (Some of the LEDs are OFF. Scanning can be continued.)
A. Operation / B. Cause / C. Remedy	In the case that the light intensity is insufficient at LED lighting.

50-0015	Failure of the ADF Double Feed Sensor
A. Operation / B. Cause / C. Remedy	<p>Cause: Failure of the Double Feed Sensor installed in the ADF</p> <p>Detection condition/timing: - When a paper feed error of the Double Feed Sensor was detected at power-on - When an error of the output value of the Double Feed Sensor was detected during ADF job (While an ADF job is being executed, it is handled as a jam once and retry is performed.)</p> <p>Clearing condition: When communication and the sensor output value are normal at power-on</p> <p>Movement/symptom: "Check area where multi. sheet feed was detected. (Call serv. rep.)" is displayed in the status line. Although reading from the ADF is possible, double feed cannot be detected when it occurs.</p> <p>Message displayed on the Control Panel: Check area where multi. sheet feed was detected. (Call serv. rep.)</p> <p>Measures: Check for any foreign matter, clean paper lint, disconnect and then connect the connectors, replace the Double Feed Detection PCB, replace the RCON/DF Driver PCB, replace the harnesses</p>
61-0001	No staple (process tray assembly)
A. Operation / B. Cause / C. Remedy	<p>Operation : User message is displayed on controller of main unit.</p> <p>Printing operation is suspended when operating staple job during a print job.</p> <p>Recovery method : Replenish with staples.</p>
61-0002	Finisher Staple Free Stapling alarm: Fin-H1/Y1
A. Operation / B. Cause / C. Remedy	<p>Cause: The staple free staple unit is broken.</p> <p>Operation : Operation stops as jam. After jam processing, the paper is delivered without stapling until a job is finished.</p> <p>Recovery method : Replace the Staple free staple unit. After performing the remedy work, go through the following to clear the alarm: SORTER> FUNCTION> EMSG-CLR.</p>
62-0001	No staple (saddle assembly)
A. Operation / B. Cause / C. Remedy	<p>Operation: Print operation is suspended after user message is displayed on the Control Panel.</p> <p>Printing operation is suspended when operating side-staple job during a print job.</p> <p>Measures: Replenish with staples.</p>
70-0071	Verification error by Falsification detection at startup function
A. Operation / B. Cause / C. Remedy	<p>Cause: At normal startup, verification error occurred due to invalid data of the firmware (for startup in safe mode).</p> <p>Measures: 1. Replace the Flash PCB, and reinstall the system software using SST or a USB flash drive. 2. Settings/Registration > Management Settings > Security Settings > System verification at startup > OFF</p>
70-0086	For R&D
A. Operation / B. Cause / C. Remedy	
70-0087	Firmware combination mismatch
A. Operation / B. Cause / C. Remedy	<p>Cause: An option with the firmware which version is newer than that of the firmware installed in the host machine was detected. It is an alarm when the automatic update cancellation message is displayed on the Control Panel.</p> <p>Detection condition: When the following two conditions are satisfied: 1. "1" is set in COPIER>Option>FNC-SW>VER-CHNG. 2. The version of the firmware installed in the option that has been installed to the host machine is newer than that of the firmware in the host machine.</p> <p>Timing: At startup</p> <p>Movement/symptom: Cancel the automatic update.</p> <p>Measures: Update the firmware of the host machine.</p>

73-0004	For R&D
A. Operation / B. Cause / C. Remedy	-
73-0007	For R&D
A. Operation / B. Cause / C. Remedy	-
73-0008	For R&D
A. Operation / B. Cause / C. Remedy	-
73-0009	For R&D
A. Operation / B. Cause / C. Remedy	-
73-0011	For R&D
A. Operation / B. Cause / C. Remedy	-
73-0014	For R&D
A. Operation / B. Cause / C. Remedy	-
73-0015	For R&D
A. Operation / B. Cause / C. Remedy	-
73-0017	For R&D
A. Operation / B. Cause / C. Remedy	-
73-0024	For R&D
A. Operation / B. Cause / C. Remedy	-
73-0026	For R&D
A. Operation / B. Cause / C. Remedy	-
75-9101	For R&D
A. Operation / B. Cause / C. Remedy	-
75-9102	For R&D
A. Operation / B. Cause / C. Remedy	-
75-9103	For R&D
A. Operation / B. Cause / C. Remedy	-
75-9104	For R&D
A. Operation / B. Cause / C. Remedy	-
75-9105	For R&D
A. Operation / B. Cause / C. Remedy	-
75-9106	For R&D
A. Operation / B. Cause / C. Remedy	-

75-9107	For R&D
A. Operation / B. Cause / C. Remedy	-
75-9108	For R&D
A. Operation / B. Cause / C. Remedy	-
75-9109	For R&D
A. Operation / B. Cause / C. Remedy	-
75-910A	For R&D
A. Operation / B. Cause / C. Remedy	-
75-910B	For R&D
A. Operation / B. Cause / C. Remedy	-
75-910C	For R&D
A. Operation / B. Cause / C. Remedy	-
75-910D	For R&D
A. Operation / B. Cause / C. Remedy	-
75-910E	For R&D
A. Operation / B. Cause / C. Remedy	-
75-910F	For R&D
A. Operation / B. Cause / C. Remedy	-
75-9110	For R&D
A. Operation / B. Cause / C. Remedy	-
75-9111	For R&D
A. Operation / B. Cause / C. Remedy	-
75-9112	For R&D
A. Operation / B. Cause / C. Remedy	-
75-9113	For R&D
A. Operation / B. Cause / C. Remedy	-
75-9114	For R&D
A. Operation / B. Cause / C. Remedy	-
75-9115	For R&D
A. Operation / B. Cause / C. Remedy	-
75-9116	For R&D
A. Operation / B. Cause / C. Remedy	-

75-9117	For R&D
A. Operation / B. Cause / C. Remedy	-
75-9118	For R&D
A. Operation / B. Cause / C. Remedy	-
75-9119	For R&D
A. Operation / B. Cause / C. Remedy	-
75-911A	For R&D
A. Operation / B. Cause / C. Remedy	-
75-911B	For R&D
A. Operation / B. Cause / C. Remedy	-
75-911C	For R&D
A. Operation / B. Cause / C. Remedy	-
75-911D	For R&D
A. Operation / B. Cause / C. Remedy	-
75-911E	For R&D
A. Operation / B. Cause / C. Remedy	-
75-911F	For R&D
A. Operation / B. Cause / C. Remedy	-
75-9120	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B101	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B102	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B103	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B104	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B105	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B106	For R&D
A. Operation / B. Cause / C. Remedy	-

75-B107	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B108	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B109	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B10A	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B10B	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B10C	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B10D	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B10E	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B10F	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B110	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B111	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B112	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B113	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B114	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B115	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B116	For R&D
A. Operation / B. Cause / C. Remedy	-

75-B117	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B118	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B119	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B11A	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B11B	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B11C	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B11D	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B11E	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B11F	For R&D
A. Operation / B. Cause / C. Remedy	-
75-B120	For R&D
A. Operation / B. Cause / C. Remedy	-
76-0003	For R&D
A. Operation / B. Cause / C. Remedy	-
76-0005	For R&D
A. Operation / B. Cause / C. Remedy	-
76-0007	For R&D
A. Operation / B. Cause / C. Remedy	-
77-0001	For R&D
A. Operation / B. Cause / C. Remedy	-
77-0002	For R&D
A. Operation / B. Cause / C. Remedy	-
77-0003	For R&D
A. Operation / B. Cause / C. Remedy	-

77-0005	For R&D
A. Operation / B. Cause / C. Remedy	-
77-0006	For R&D
A. Operation / B. Cause / C. Remedy	-
78-0001	For R&D
A. Operation / B. Cause / C. Remedy	-
78-0002	For R&D
A. Operation / B. Cause / C. Remedy	-
78-0003	For R&D
A. Operation / B. Cause / C. Remedy	-
78-0004	For R&D
A. Operation / B. Cause / C. Remedy	-
78-0005	For R&D
A. Operation / B. Cause / C. Remedy	-
79-0001	For R&D
A. Operation / B. Cause / C. Remedy	-
79-0002	For R&D
A. Operation / B. Cause / C. Remedy	-
79-0003	For R&D
A. Operation / B. Cause / C. Remedy	-
79-0004	For R&D
A. Operation / B. Cause / C. Remedy	-
80-0001	For R&D
A. Operation / B. Cause / C. Remedy	-
80-0003	For R&D
A. Operation / B. Cause / C. Remedy	-
80-0004	For R&D
A. Operation / B. Cause / C. Remedy	-
80-0007	For R&D
A. Operation / B. Cause / C. Remedy	-
80-0008	For R&D
A. Operation / B. Cause / C. Remedy	-

80-0009	For R&D
A. Operation / B. Cause / C. Remedy	-
80-0010	For R&D
A. Operation / B. Cause / C. Remedy	-
80-0011	For R&D
A. Operation / B. Cause / C. Remedy	-
80-0012	For R&D
A. Operation / B. Cause / C. Remedy	-
80-0013	For R&D
A. Operation / B. Cause / C. Remedy	-
80-0015	For R&D
A. Operation / B. Cause / C. Remedy	-
80-0016	For R&D
A. Operation / B. Cause / C. Remedy	-
80-0019	For R&D
A. Operation / B. Cause / C. Remedy	-
81-0001	For R&D
A. Operation / B. Cause / C. Remedy	-
81-0003	For R&D
A. Operation / B. Cause / C. Remedy	-
81-0004	For R&D
A. Operation / B. Cause / C. Remedy	-
81-0005	For R&D
A. Operation / B. Cause / C. Remedy	-
81-0006	For R&D
A. Operation / B. Cause / C. Remedy	-
81-0007	For R&D
A. Operation / B. Cause / C. Remedy	-
83-0005	CanonPDF
A. Operation / B. Cause / C. Remedy	PDF memory full
83-0015	CanonPDF
A. Operation / B. Cause / C. Remedy	PDF data decode error

83-0017	CanonPDF
A. Operation / B. Cause / C. Remedy	PDF error
83-0020	Reception of ESCP unanalyzable data
A. Operation / B. Cause / C. Remedy	Since PDL automatic judgment may be wrong, select the appropriate PDL in Settings/Registration > Function Settings > Printer > Printer Settings > Settings > Printer Operation Mode, and send the data.
83-0021	Reception of I5577 unanalyzable data
A. Operation / B. Cause / C. Remedy	Since PDL automatic judgment may be wrong, select the appropriate PDL in Settings/Registration > Function Settings > Printer > Printer Settings > Settings > Printer Operation Mode, and send the data.
83-0022	Reception of HPGL unanalyzable data
A. Operation / B. Cause / C. Remedy	Since PDL automatic judgment may be wrong, select the appropriate PDL in Settings/Registration > Function Settings > Printer > Printer Settings > Settings > Printer Operation Mode, and send the data.
83-0023	Reception of N201 unanalyzable data
A. Operation / B. Cause / C. Remedy	Since PDL automatic judgment may be wrong, select the appropriate PDL in Settings/Registration > Function Settings > Printer > Printer Settings > Settings > Printer Operation Mode, and send the data.
83-1001	Network linked service
A. Operation / B. Cause / C. Remedy	<p>Cause:</p> <ul style="list-style-type: none"> - Resource full error of network linked service <p>Detection condition/timing: -</p> <p>Movement/symptom:</p> <ul style="list-style-type: none"> - Memory or disk space enough for executing conversion process using network linked service cannot be allocated. <p>Measures: -</p>
83-1002	Network linked service
A. Operation / B. Cause / C. Remedy	<p>Cause:</p> <ul style="list-style-type: none"> - Parameter error of network linked service <p>Detection condition/timing: -</p> <p>Movement/symptom:</p> <ul style="list-style-type: none"> - Printing cannot be performed because of specifying unsupported document data or making the unsupported print settings during data conversion process using network linked service. <p>Measures:</p> <ul style="list-style-type: none"> - Check that the format of the document data is correct. - Check that the print settings are correct.
83-1003	Network linked service
A. Operation / B. Cause / C. Remedy	<p>Cause:</p> <ul style="list-style-type: none"> - Timeout error of network linked service <p>Detection condition/timing:</p> <ul style="list-style-type: none"> - When there is a problem with server or document data <p>Movement/symptom:</p> <ul style="list-style-type: none"> - Conversion process using network linked service was not completed within the specified period of time. <p>Measures:</p> <ul style="list-style-type: none"> - If the problem occurs due to an error in the server, wait for a while and execute the job again. - If the problem occurs due to an error in the document data, make the document data size smaller and execute the job again.

83-1004	Network linked service
A. Operation / B. Cause / C. Remedy	<p>Cause:</p> <ul style="list-style-type: none"> - Conversion server connection error of network linked service <p>Detection condition/timing: -</p> <p>Movement/symptom:</p> <ul style="list-style-type: none"> - During data conversion process using network linked service, the LAN Cable is physically removed or communication with the server is not available due to an error in the communication path or the conversion server. <p>Measures:</p> <ul style="list-style-type: none"> - Check if the LAN Cable is properly connected. - If the LAN Cable is properly connected, check that the server operates properly and there is no problem with the communication path to the server.
83-1005	Network linked service
A. Operation / B. Cause / C. Remedy	<p>Cause:</p> <ul style="list-style-type: none"> - Conversion server not available error of network linked service <p>Detection condition/timing: -</p> <p>Movement/symptom:</p> <ul style="list-style-type: none"> - Unrecoverable error occurred in the conversion server during data conversion process using network linked service. <p>Measures: -</p>
84-0001	For R&D
A. Operation / B. Cause / C. Remedy	-
84-0003	For R&D
A. Operation / B. Cause / C. Remedy	-
84-0004	For R&D
A. Operation / B. Cause / C. Remedy	-
84-0005	For R&D
A. Operation / B. Cause / C. Remedy	-
84-0006	For R&D
A. Operation / B. Cause / C. Remedy	-
84-0007	For R&D
A. Operation / B. Cause / C. Remedy	-
84-0008	For R&D
A. Operation / B. Cause / C. Remedy	-
84-0009	For R&D
A. Operation / B. Cause / C. Remedy	-
85-0001	For R&D
A. Operation / B. Cause / C. Remedy	-
85-0002	For R&D
A. Operation / B. Cause / C. Remedy	-

85-0003	For R&D
A. Operation / B. Cause / C. Remedy	-
85-0004	For R&D
A. Operation / B. Cause / C. Remedy	-
85-0005	For R&D
A. Operation / B. Cause / C. Remedy	-
85-0006	For R&D
A. Operation / B. Cause / C. Remedy	-
85-0007	For R&D
A. Operation / B. Cause / C. Remedy	-
85-0008	For R&D
A. Operation / B. Cause / C. Remedy	-
85-0009	For R&D
A. Operation / B. Cause / C. Remedy	-
85-000A	For R&D
A. Operation / B. Cause / C. Remedy	
85-0011	For R&D
A. Operation / B. Cause / C. Remedy	
85-0012	For R&D
A. Operation / B. Cause / C. Remedy	
85-0013	For R&D
A. Operation / B. Cause / C. Remedy	
85-0014	For R&D
A. Operation / B. Cause / C. Remedy	
85-0015	For R&D
A. Operation / B. Cause / C. Remedy	
85-001A	For R&D
A. Operation / B. Cause / C. Remedy	
85-002A	For R&D
A. Operation / B. Cause / C. Remedy	
85-0101	For R&D
A. Operation / B. Cause / C. Remedy	

85-0102	For R&D
A. Operation / B. Cause / C. Remedy	
85-0103	For R&D
A. Operation / B. Cause / C. Remedy	
85-0104	For R&D
A. Operation / B. Cause / C. Remedy	
85-0105	For R&D
A. Operation / B. Cause / C. Remedy	
85-0111	For R&D
A. Operation / B. Cause / C. Remedy	
85-0112	For R&D
A. Operation / B. Cause / C. Remedy	
85-0113	For R&D
A. Operation / B. Cause / C. Remedy	
85-0114	For R&D
A. Operation / B. Cause / C. Remedy	
85-0115	For R&D
A. Operation / B. Cause / C. Remedy	
85-0201	For R&D
A. Operation / B. Cause / C. Remedy	
85-0202	For R&D
A. Operation / B. Cause / C. Remedy	
85-0203	For R&D
A. Operation / B. Cause / C. Remedy	
85-0204	For R&D
A. Operation / B. Cause / C. Remedy	
85-0205	For R&D
A. Operation / B. Cause / C. Remedy	
85-0211	For R&D
A. Operation / B. Cause / C. Remedy	
85-0212	For R&D
A. Operation / B. Cause / C. Remedy	

85-0213	For R&D
A. Operation / B. Cause / C. Remedy	
85-0214	For R&D
A. Operation / B. Cause / C. Remedy	
85-0215	For R&D
A. Operation / B. Cause / C. Remedy	
85-0301	For R&D
A. Operation / B. Cause / C. Remedy	
85-0302	For R&D
A. Operation / B. Cause / C. Remedy	
85-0303	For R&D
A. Operation / B. Cause / C. Remedy	
85-0304	For R&D
A. Operation / B. Cause / C. Remedy	
85-0305	For R&D
A. Operation / B. Cause / C. Remedy	
85-0311	For R&D
A. Operation / B. Cause / C. Remedy	
85-0312	For R&D
A. Operation / B. Cause / C. Remedy	
85-0313	For R&D
A. Operation / B. Cause / C. Remedy	
85-0314	For R&D
A. Operation / B. Cause / C. Remedy	
85-0315	For R&D
A. Operation / B. Cause / C. Remedy	
85-0401	For R&D
A. Operation / B. Cause / C. Remedy	
85-0402	For R&D
A. Operation / B. Cause / C. Remedy	
85-0403	For R&D
A. Operation / B. Cause / C. Remedy	

85-0404	For R&D
A. Operation / B. Cause / C. Remedy	
85-0405	For R&D
A. Operation / B. Cause / C. Remedy	
85-0411	For R&D
A. Operation / B. Cause / C. Remedy	
85-0412	For R&D
A. Operation / B. Cause / C. Remedy	
85-0413	For R&D
A. Operation / B. Cause / C. Remedy	
85-0414	For R&D
A. Operation / B. Cause / C. Remedy	
85-0415	For R&D
A. Operation / B. Cause / C. Remedy	
85-0501	For R&D
A. Operation / B. Cause / C. Remedy	
85-0502	For R&D
A. Operation / B. Cause / C. Remedy	
85-0503	For R&D
A. Operation / B. Cause / C. Remedy	
85-0504	For R&D
A. Operation / B. Cause / C. Remedy	
85-0505	For R&D
A. Operation / B. Cause / C. Remedy	
85-0511	For R&D
A. Operation / B. Cause / C. Remedy	
85-0512	For R&D
A. Operation / B. Cause / C. Remedy	
85-0513	For R&D
A. Operation / B. Cause / C. Remedy	
85-0514	For R&D
A. Operation / B. Cause / C. Remedy	

85-0515	For R&D
A. Operation / B. Cause / C. Remedy	
85-0601	For R&D
A. Operation / B. Cause / C. Remedy	
85-0602	For R&D
A. Operation / B. Cause / C. Remedy	
85-0603	For R&D
A. Operation / B. Cause / C. Remedy	
85-0604	For R&D
A. Operation / B. Cause / C. Remedy	
85-0605	For R&D
A. Operation / B. Cause / C. Remedy	
85-0611	For R&D
A. Operation / B. Cause / C. Remedy	
85-0612	For R&D
A. Operation / B. Cause / C. Remedy	
85-0613	For R&D
A. Operation / B. Cause / C. Remedy	
85-0614	For R&D
A. Operation / B. Cause / C. Remedy	
85-0615	For R&D
A. Operation / B. Cause / C. Remedy	
85-0701	For R&D
A. Operation / B. Cause / C. Remedy	
85-0702	For R&D
A. Operation / B. Cause / C. Remedy	
85-0703	For R&D
A. Operation / B. Cause / C. Remedy	
85-0704	For R&D
A. Operation / B. Cause / C. Remedy	
85-0705	For R&D
A. Operation / B. Cause / C. Remedy	

85-0711	For R&D
A. Operation / B. Cause / C. Remedy	
85-0712	For R&D
A. Operation / B. Cause / C. Remedy	
85-0713	For R&D
A. Operation / B. Cause / C. Remedy	
85-0714	For R&D
A. Operation / B. Cause / C. Remedy	
85-0715	For R&D
A. Operation / B. Cause / C. Remedy	
85-0801	For R&D
A. Operation / B. Cause / C. Remedy	
85-0802	For R&D
A. Operation / B. Cause / C. Remedy	
85-0803	For R&D
A. Operation / B. Cause / C. Remedy	
85-0804	For R&D
A. Operation / B. Cause / C. Remedy	
85-0805	For R&D
A. Operation / B. Cause / C. Remedy	
85-0811	For R&D
A. Operation / B. Cause / C. Remedy	
85-0812	For R&D
A. Operation / B. Cause / C. Remedy	
85-0813	For R&D
A. Operation / B. Cause / C. Remedy	
85-0814	For R&D
A. Operation / B. Cause / C. Remedy	
85-0815	For R&D
A. Operation / B. Cause / C. Remedy	
85-0901	For R&D
A. Operation / B. Cause / C. Remedy	

85-0902	For R&D
A. Operation / B. Cause / C. Remedy	
85-0903	For R&D
A. Operation / B. Cause / C. Remedy	
85-0904	For R&D
A. Operation / B. Cause / C. Remedy	
85-0905	For R&D
A. Operation / B. Cause / C. Remedy	
85-0911	For R&D
A. Operation / B. Cause / C. Remedy	
85-0912	For R&D
A. Operation / B. Cause / C. Remedy	
85-0913	For R&D
A. Operation / B. Cause / C. Remedy	
85-0914	For R&D
A. Operation / B. Cause / C. Remedy	
85-0915	For R&D
A. Operation / B. Cause / C. Remedy	
85-0A01	For R&D
A. Operation / B. Cause / C. Remedy	
85-0A02	For R&D
A. Operation / B. Cause / C. Remedy	
85-0A03	For R&D
A. Operation / B. Cause / C. Remedy	
85-0A04	For R&D
A. Operation / B. Cause / C. Remedy	
85-0A05	For R&D
A. Operation / B. Cause / C. Remedy	
85-0A11	For R&D
A. Operation / B. Cause / C. Remedy	
85-0A12	For R&D
A. Operation / B. Cause / C. Remedy	

85-0A13	For R&D
A. Operation / B. Cause / C. Remedy	
85-0A14	For R&D
A. Operation / B. Cause / C. Remedy	
85-0A15	For R&D
A. Operation / B. Cause / C. Remedy	
85-0B01	For R&D
A. Operation / B. Cause / C. Remedy	
85-0B02	For R&D
A. Operation / B. Cause / C. Remedy	
85-0B03	For R&D
A. Operation / B. Cause / C. Remedy	
85-0B04	For R&D
A. Operation / B. Cause / C. Remedy	
85-0B05	For R&D
A. Operation / B. Cause / C. Remedy	
85-0B11	For R&D
A. Operation / B. Cause / C. Remedy	
85-0B12	For R&D
A. Operation / B. Cause / C. Remedy	
85-0B13	For R&D
A. Operation / B. Cause / C. Remedy	
85-0B14	For R&D
A. Operation / B. Cause / C. Remedy	
85-0B15	For R&D
A. Operation / B. Cause / C. Remedy	
85-0C01	For R&D
A. Operation / B. Cause / C. Remedy	
85-0C02	For R&D
A. Operation / B. Cause / C. Remedy	
85-0C03	For R&D
A. Operation / B. Cause / C. Remedy	

85-0C04	For R&D
A. Operation / B. Cause / C. Remedy	
85-0C05	For R&D
A. Operation / B. Cause / C. Remedy	
85-0C11	For R&D
A. Operation / B. Cause / C. Remedy	
85-0C12	For R&D
A. Operation / B. Cause / C. Remedy	
85-0C13	For R&D
A. Operation / B. Cause / C. Remedy	
85-0C14	For R&D
A. Operation / B. Cause / C. Remedy	
85-0C15	For R&D
A. Operation / B. Cause / C. Remedy	
85-0D01	For R&D
A. Operation / B. Cause / C. Remedy	
85-0D02	For R&D
A. Operation / B. Cause / C. Remedy	
85-0D03	For R&D
A. Operation / B. Cause / C. Remedy	
85-0D04	For R&D
A. Operation / B. Cause / C. Remedy	
85-0D05	For R&D
A. Operation / B. Cause / C. Remedy	
85-0D11	For R&D
A. Operation / B. Cause / C. Remedy	
85-0D12	For R&D
A. Operation / B. Cause / C. Remedy	
85-0D13	For R&D
A. Operation / B. Cause / C. Remedy	
85-0D14	For R&D
A. Operation / B. Cause / C. Remedy	

85-0D15	For R&D
A. Operation / B. Cause / C. Remedy	
85-0E01	For R&D
A. Operation / B. Cause / C. Remedy	
85-0E02	For R&D
A. Operation / B. Cause / C. Remedy	
85-0E03	For R&D
A. Operation / B. Cause / C. Remedy	
85-0E04	For R&D
A. Operation / B. Cause / C. Remedy	
85-0E05	For R&D
A. Operation / B. Cause / C. Remedy	
85-0E11	For R&D
A. Operation / B. Cause / C. Remedy	
85-0E12	For R&D
A. Operation / B. Cause / C. Remedy	
85-0E13	For R&D
A. Operation / B. Cause / C. Remedy	
85-0E14	For R&D
A. Operation / B. Cause / C. Remedy	
85-0E15	For R&D
A. Operation / B. Cause / C. Remedy	
85-0F01	For R&D
A. Operation / B. Cause / C. Remedy	
85-0F02	For R&D
A. Operation / B. Cause / C. Remedy	
85-0F03	For R&D
A. Operation / B. Cause / C. Remedy	
85-0F04	For R&D
A. Operation / B. Cause / C. Remedy	
85-0F05	For R&D
A. Operation / B. Cause / C. Remedy	

85-0F11	For R&D
A. Operation / B. Cause / C. Remedy	
85-0F12	For R&D
A. Operation / B. Cause / C. Remedy	
85-0F13	For R&D
A. Operation / B. Cause / C. Remedy	
85-0F14	For R&D
A. Operation / B. Cause / C. Remedy	
85-0F15	For R&D
A. Operation / B. Cause / C. Remedy	
85-1001	For R&D
A. Operation / B. Cause / C. Remedy	-
85-1002	For R&D
A. Operation / B. Cause / C. Remedy	-
85-1003	For R&D
A. Operation / B. Cause / C. Remedy	-
85-1004	For R&D
A. Operation / B. Cause / C. Remedy	-
85-1005	For R&D
A. Operation / B. Cause / C. Remedy	-
85-1011	For R&D
A. Operation / B. Cause / C. Remedy	
85-1012	For R&D
A. Operation / B. Cause / C. Remedy	
85-1013	For R&D
A. Operation / B. Cause / C. Remedy	
85-1014	For R&D
A. Operation / B. Cause / C. Remedy	
85-1015	For R&D
A. Operation / B. Cause / C. Remedy	
85-1101	For R&D
A. Operation / B. Cause / C. Remedy	

85-1102	For R&D
A. Operation / B. Cause / C. Remedy	
85-1103	For R&D
A. Operation / B. Cause / C. Remedy	
85-1104	For R&D
A. Operation / B. Cause / C. Remedy	
85-1105	For R&D
A. Operation / B. Cause / C. Remedy	
85-1111	For R&D
A. Operation / B. Cause / C. Remedy	
85-1112	For R&D
A. Operation / B. Cause / C. Remedy	
85-1113	For R&D
A. Operation / B. Cause / C. Remedy	
85-1114	For R&D
A. Operation / B. Cause / C. Remedy	
85-1115	For R&D
A. Operation / B. Cause / C. Remedy	
85-1201	For R&D
A. Operation / B. Cause / C. Remedy	
85-1202	For R&D
A. Operation / B. Cause / C. Remedy	
85-1203	For R&D
A. Operation / B. Cause / C. Remedy	
85-1204	For R&D
A. Operation / B. Cause / C. Remedy	
85-1205	For R&D
A. Operation / B. Cause / C. Remedy	
85-1211	For R&D
A. Operation / B. Cause / C. Remedy	
85-1212	For R&D
A. Operation / B. Cause / C. Remedy	

85-1213	For R&D
A. Operation / B. Cause / C. Remedy	
85-1214	For R&D
A. Operation / B. Cause / C. Remedy	
85-1215	For R&D
A. Operation / B. Cause / C. Remedy	
85-1301	For R&D
A. Operation / B. Cause / C. Remedy	
85-1302	For R&D
A. Operation / B. Cause / C. Remedy	
85-1303	For R&D
A. Operation / B. Cause / C. Remedy	
85-1304	For R&D
A. Operation / B. Cause / C. Remedy	
85-1305	For R&D
A. Operation / B. Cause / C. Remedy	
85-1311	For R&D
A. Operation / B. Cause / C. Remedy	
85-1312	For R&D
A. Operation / B. Cause / C. Remedy	
85-1313	For R&D
A. Operation / B. Cause / C. Remedy	
85-1314	For R&D
A. Operation / B. Cause / C. Remedy	
85-1315	For R&D
A. Operation / B. Cause / C. Remedy	
85-1401	For R&D
A. Operation / B. Cause / C. Remedy	
85-1402	For R&D
A. Operation / B. Cause / C. Remedy	
85-1403	For R&D
A. Operation / B. Cause / C. Remedy	

85-1404	For R&D
A. Operation / B. Cause / C. Remedy	
85-1405	For R&D
A. Operation / B. Cause / C. Remedy	
85-1411	For R&D
A. Operation / B. Cause / C. Remedy	
85-1412	For R&D
A. Operation / B. Cause / C. Remedy	
85-1413	For R&D
A. Operation / B. Cause / C. Remedy	
85-1414	For R&D
A. Operation / B. Cause / C. Remedy	
85-1415	For R&D
A. Operation / B. Cause / C. Remedy	
85-1501	For R&D
A. Operation / B. Cause / C. Remedy	
85-1502	For R&D
A. Operation / B. Cause / C. Remedy	
85-1503	For R&D
A. Operation / B. Cause / C. Remedy	
85-1504	For R&D
A. Operation / B. Cause / C. Remedy	
85-1505	For R&D
A. Operation / B. Cause / C. Remedy	
85-1511	For R&D
A. Operation / B. Cause / C. Remedy	
85-1512	For R&D
A. Operation / B. Cause / C. Remedy	
85-1513	For R&D
A. Operation / B. Cause / C. Remedy	
85-1514	For R&D
A. Operation / B. Cause / C. Remedy	

85-1515	For R&D
A. Operation / B. Cause / C. Remedy	
85-1601	For R&D
A. Operation / B. Cause / C. Remedy	
85-1602	For R&D
A. Operation / B. Cause / C. Remedy	
85-1603	For R&D
A. Operation / B. Cause / C. Remedy	
85-1604	For R&D
A. Operation / B. Cause / C. Remedy	
85-1605	For R&D
A. Operation / B. Cause / C. Remedy	
85-1611	For R&D
A. Operation / B. Cause / C. Remedy	
85-1612	For R&D
A. Operation / B. Cause / C. Remedy	
85-1613	For R&D
A. Operation / B. Cause / C. Remedy	
85-1614	For R&D
A. Operation / B. Cause / C. Remedy	
85-1615	For R&D
A. Operation / B. Cause / C. Remedy	
85-1701	For R&D
A. Operation / B. Cause / C. Remedy	
85-1702	For R&D
A. Operation / B. Cause / C. Remedy	
85-1703	For R&D
A. Operation / B. Cause / C. Remedy	
85-1704	For R&D
A. Operation / B. Cause / C. Remedy	
85-1705	For R&D
A. Operation / B. Cause / C. Remedy	

85-1711	For R&D
A. Operation / B. Cause / C. Remedy	
85-1712	For R&D
A. Operation / B. Cause / C. Remedy	
85-1713	For R&D
A. Operation / B. Cause / C. Remedy	
85-1714	For R&D
A. Operation / B. Cause / C. Remedy	
85-1715	For R&D
A. Operation / B. Cause / C. Remedy	
85-1801	For R&D
A. Operation / B. Cause / C. Remedy	
85-1802	For R&D
A. Operation / B. Cause / C. Remedy	
85-1803	For R&D
A. Operation / B. Cause / C. Remedy	
85-1804	For R&D
A. Operation / B. Cause / C. Remedy	
85-1805	For R&D
A. Operation / B. Cause / C. Remedy	
85-1811	For R&D
A. Operation / B. Cause / C. Remedy	
85-1812	For R&D
A. Operation / B. Cause / C. Remedy	
85-1813	For R&D
A. Operation / B. Cause / C. Remedy	
85-1814	For R&D
A. Operation / B. Cause / C. Remedy	
85-1815	For R&D
A. Operation / B. Cause / C. Remedy	
85-1901	For R&D
A. Operation / B. Cause / C. Remedy	

85-1902	For R&D
A. Operation / B. Cause / C. Remedy	
85-1903	For R&D
A. Operation / B. Cause / C. Remedy	
85-1904	For R&D
A. Operation / B. Cause / C. Remedy	
85-1905	For R&D
A. Operation / B. Cause / C. Remedy	
85-1911	For R&D
A. Operation / B. Cause / C. Remedy	
85-1912	For R&D
A. Operation / B. Cause / C. Remedy	
85-1913	For R&D
A. Operation / B. Cause / C. Remedy	
85-1914	For R&D
A. Operation / B. Cause / C. Remedy	
85-1915	For R&D
A. Operation / B. Cause / C. Remedy	
85-1A01	For R&D
A. Operation / B. Cause / C. Remedy	
85-1A02	For R&D
A. Operation / B. Cause / C. Remedy	
85-1A03	For R&D
A. Operation / B. Cause / C. Remedy	
85-1A04	For R&D
A. Operation / B. Cause / C. Remedy	
85-1A05	For R&D
A. Operation / B. Cause / C. Remedy	
85-1A11	For R&D
A. Operation / B. Cause / C. Remedy	
85-1A12	For R&D
A. Operation / B. Cause / C. Remedy	

85-1A13	For R&D
A. Operation / B. Cause / C. Remedy	
85-1A14	For R&D
A. Operation / B. Cause / C. Remedy	
85-1A15	For R&D
A. Operation / B. Cause / C. Remedy	
85-1B01	For R&D
A. Operation / B. Cause / C. Remedy	
85-1B02	For R&D
A. Operation / B. Cause / C. Remedy	
85-1B03	For R&D
A. Operation / B. Cause / C. Remedy	
85-1B04	For R&D
A. Operation / B. Cause / C. Remedy	
85-1B05	For R&D
A. Operation / B. Cause / C. Remedy	
85-1B11	For R&D
A. Operation / B. Cause / C. Remedy	
85-1B12	For R&D
A. Operation / B. Cause / C. Remedy	
85-1B13	For R&D
A. Operation / B. Cause / C. Remedy	
85-1B14	For R&D
A. Operation / B. Cause / C. Remedy	
85-1B15	For R&D
A. Operation / B. Cause / C. Remedy	
85-1C01	For R&D
A. Operation / B. Cause / C. Remedy	
85-1C02	For R&D
A. Operation / B. Cause / C. Remedy	
85-1C03	For R&D
A. Operation / B. Cause / C. Remedy	

85-1C04	For R&D
A. Operation / B. Cause / C. Remedy	
85-1C05	For R&D
A. Operation / B. Cause / C. Remedy	
85-1C11	For R&D
A. Operation / B. Cause / C. Remedy	
85-1C12	For R&D
A. Operation / B. Cause / C. Remedy	
85-1C13	For R&D
A. Operation / B. Cause / C. Remedy	
85-1C14	For R&D
A. Operation / B. Cause / C. Remedy	
85-1C15	For R&D
A. Operation / B. Cause / C. Remedy	
85-1D01	For R&D
A. Operation / B. Cause / C. Remedy	
85-1D02	For R&D
A. Operation / B. Cause / C. Remedy	
85-1D03	For R&D
A. Operation / B. Cause / C. Remedy	
85-1D04	For R&D
A. Operation / B. Cause / C. Remedy	
85-1D05	For R&D
A. Operation / B. Cause / C. Remedy	
85-1D11	For R&D
A. Operation / B. Cause / C. Remedy	
85-1D12	For R&D
A. Operation / B. Cause / C. Remedy	
85-1D13	For R&D
A. Operation / B. Cause / C. Remedy	
85-1D14	For R&D
A. Operation / B. Cause / C. Remedy	

85-1D15	For R&D
A. Operation / B. Cause / C. Remedy	
85-1E01	For R&D
A. Operation / B. Cause / C. Remedy	
85-1E02	For R&D
A. Operation / B. Cause / C. Remedy	
85-1E03	For R&D
A. Operation / B. Cause / C. Remedy	
85-1E04	For R&D
A. Operation / B. Cause / C. Remedy	
85-1E05	For R&D
A. Operation / B. Cause / C. Remedy	
85-1E11	For R&D
A. Operation / B. Cause / C. Remedy	
85-1E12	For R&D
A. Operation / B. Cause / C. Remedy	
85-1E13	For R&D
A. Operation / B. Cause / C. Remedy	
85-1E14	For R&D
A. Operation / B. Cause / C. Remedy	
85-1E15	For R&D
A. Operation / B. Cause / C. Remedy	
85-1F01	For R&D
A. Operation / B. Cause / C. Remedy	
85-1F02	For R&D
A. Operation / B. Cause / C. Remedy	
85-1F03	For R&D
A. Operation / B. Cause / C. Remedy	
85-1F04	For R&D
A. Operation / B. Cause / C. Remedy	
85-1F05	For R&D
A. Operation / B. Cause / C. Remedy	

85-1F11	For R&D
A. Operation / B. Cause / C. Remedy	
85-1F12	For R&D
A. Operation / B. Cause / C. Remedy	
85-1F13	For R&D
A. Operation / B. Cause / C. Remedy	
85-1F14	For R&D
A. Operation / B. Cause / C. Remedy	
85-1F15	For R&D
A. Operation / B. Cause / C. Remedy	
85-2001	For R&D
A. Operation / B. Cause / C. Remedy	
85-2002	For R&D
A. Operation / B. Cause / C. Remedy	
85-2003	For R&D
A. Operation / B. Cause / C. Remedy	
85-2004	For R&D
A. Operation / B. Cause / C. Remedy	
85-2005	For R&D
A. Operation / B. Cause / C. Remedy	
85-2011	For R&D
A. Operation / B. Cause / C. Remedy	
85-2012	For R&D
A. Operation / B. Cause / C. Remedy	
85-2013	For R&D
A. Operation / B. Cause / C. Remedy	
85-2014	For R&D
A. Operation / B. Cause / C. Remedy	
85-2015	For R&D
A. Operation / B. Cause / C. Remedy	
85-2101	For R&D
A. Operation / B. Cause / C. Remedy	

85-2102	For R&D
A. Operation / B. Cause / C. Remedy	
85-2103	For R&D
A. Operation / B. Cause / C. Remedy	
85-2104	For R&D
A. Operation / B. Cause / C. Remedy	
85-2105	For R&D
A. Operation / B. Cause / C. Remedy	
85-2111	For R&D
A. Operation / B. Cause / C. Remedy	
85-2112	For R&D
A. Operation / B. Cause / C. Remedy	
85-2113	For R&D
A. Operation / B. Cause / C. Remedy	
85-2114	For R&D
A. Operation / B. Cause / C. Remedy	
85-2115	For R&D
A. Operation / B. Cause / C. Remedy	
85-2201	For R&D
A. Operation / B. Cause / C. Remedy	
85-2202	For R&D
A. Operation / B. Cause / C. Remedy	
85-2203	For R&D
A. Operation / B. Cause / C. Remedy	
85-2204	For R&D
A. Operation / B. Cause / C. Remedy	
85-2205	For R&D
A. Operation / B. Cause / C. Remedy	
85-2211	For R&D
A. Operation / B. Cause / C. Remedy	
85-2212	For R&D
A. Operation / B. Cause / C. Remedy	

85-2213	For R&D
A. Operation / B. Cause / C. Remedy	
85-2214	For R&D
A. Operation / B. Cause / C. Remedy	
85-2215	For R&D
A. Operation / B. Cause / C. Remedy	
85-2301	For R&D
A. Operation / B. Cause / C. Remedy	
85-2302	For R&D
A. Operation / B. Cause / C. Remedy	
85-2303	For R&D
A. Operation / B. Cause / C. Remedy	
85-2304	For R&D
A. Operation / B. Cause / C. Remedy	
85-2305	For R&D
A. Operation / B. Cause / C. Remedy	
85-2311	For R&D
A. Operation / B. Cause / C. Remedy	
85-2312	For R&D
A. Operation / B. Cause / C. Remedy	
85-2313	For R&D
A. Operation / B. Cause / C. Remedy	
85-2314	For R&D
A. Operation / B. Cause / C. Remedy	
85-2315	For R&D
A. Operation / B. Cause / C. Remedy	
85-2401	For R&D
A. Operation / B. Cause / C. Remedy	
85-2402	For R&D
A. Operation / B. Cause / C. Remedy	
85-2403	For R&D
A. Operation / B. Cause / C. Remedy	

85-2404	For R&D
A. Operation / B. Cause / C. Remedy	
85-2405	For R&D
A. Operation / B. Cause / C. Remedy	
85-2411	For R&D
A. Operation / B. Cause / C. Remedy	
85-2412	For R&D
A. Operation / B. Cause / C. Remedy	
85-2413	For R&D
A. Operation / B. Cause / C. Remedy	
85-2414	For R&D
A. Operation / B. Cause / C. Remedy	
85-2415	For R&D
A. Operation / B. Cause / C. Remedy	
85-2501	For R&D
A. Operation / B. Cause / C. Remedy	
85-2502	For R&D
A. Operation / B. Cause / C. Remedy	
85-2503	For R&D
A. Operation / B. Cause / C. Remedy	
85-2504	For R&D
A. Operation / B. Cause / C. Remedy	
85-2505	For R&D
A. Operation / B. Cause / C. Remedy	
85-2511	For R&D
A. Operation / B. Cause / C. Remedy	
85-2512	For R&D
A. Operation / B. Cause / C. Remedy	
85-2513	For R&D
A. Operation / B. Cause / C. Remedy	
85-2514	For R&D
A. Operation / B. Cause / C. Remedy	

85-2515	For R&D
A. Operation / B. Cause / C. Remedy	
85-2601	For R&D
A. Operation / B. Cause / C. Remedy	
85-2602	For R&D
A. Operation / B. Cause / C. Remedy	
85-2603	For R&D
A. Operation / B. Cause / C. Remedy	
85-2604	For R&D
A. Operation / B. Cause / C. Remedy	
85-2605	For R&D
A. Operation / B. Cause / C. Remedy	
85-2611	For R&D
A. Operation / B. Cause / C. Remedy	
85-2612	For R&D
A. Operation / B. Cause / C. Remedy	
85-2613	For R&D
A. Operation / B. Cause / C. Remedy	
85-2614	For R&D
A. Operation / B. Cause / C. Remedy	
85-2615	For R&D
A. Operation / B. Cause / C. Remedy	
85-2701	For R&D
A. Operation / B. Cause / C. Remedy	
85-2702	For R&D
A. Operation / B. Cause / C. Remedy	
85-2703	For R&D
A. Operation / B. Cause / C. Remedy	
85-2704	For R&D
A. Operation / B. Cause / C. Remedy	
85-2705	For R&D
A. Operation / B. Cause / C. Remedy	

85-2711	For R&D
A. Operation / B. Cause / C. Remedy	
85-2712	For R&D
A. Operation / B. Cause / C. Remedy	
85-2713	For R&D
A. Operation / B. Cause / C. Remedy	
85-2714	For R&D
A. Operation / B. Cause / C. Remedy	
85-2715	For R&D
A. Operation / B. Cause / C. Remedy	
85-2801	For R&D
A. Operation / B. Cause / C. Remedy	
85-2802	For R&D
A. Operation / B. Cause / C. Remedy	
85-2803	For R&D
A. Operation / B. Cause / C. Remedy	
85-2804	For R&D
A. Operation / B. Cause / C. Remedy	
85-2805	For R&D
A. Operation / B. Cause / C. Remedy	
85-2811	For R&D
A. Operation / B. Cause / C. Remedy	
85-2812	For R&D
A. Operation / B. Cause / C. Remedy	
85-2813	For R&D
A. Operation / B. Cause / C. Remedy	
85-2814	For R&D
A. Operation / B. Cause / C. Remedy	
85-2815	For R&D
A. Operation / B. Cause / C. Remedy	
85-2901	For R&D
A. Operation / B. Cause / C. Remedy	

85-2902	For R&D
A. Operation / B. Cause / C. Remedy	
85-2903	For R&D
A. Operation / B. Cause / C. Remedy	
85-2904	For R&D
A. Operation / B. Cause / C. Remedy	
85-2905	For R&D
A. Operation / B. Cause / C. Remedy	
85-2911	For R&D
A. Operation / B. Cause / C. Remedy	
85-2912	For R&D
A. Operation / B. Cause / C. Remedy	
85-2913	For R&D
A. Operation / B. Cause / C. Remedy	
85-2914	For R&D
A. Operation / B. Cause / C. Remedy	
85-2915	For R&D
A. Operation / B. Cause / C. Remedy	
85-2A01	For R&D
A. Operation / B. Cause / C. Remedy	
85-2A02	For R&D
A. Operation / B. Cause / C. Remedy	
85-2A03	For R&D
A. Operation / B. Cause / C. Remedy	
85-2A04	For R&D
A. Operation / B. Cause / C. Remedy	
85-2A05	For R&D
A. Operation / B. Cause / C. Remedy	
85-2A11	For R&D
A. Operation / B. Cause / C. Remedy	
85-2A12	For R&D
A. Operation / B. Cause / C. Remedy	

85-2A13	For R&D
A. Operation / B. Cause / C. Remedy	
85-2A14	For R&D
A. Operation / B. Cause / C. Remedy	
85-2A15	For R&D
A. Operation / B. Cause / C. Remedy	
85-2B01	For R&D
A. Operation / B. Cause / C. Remedy	
85-2B02	For R&D
A. Operation / B. Cause / C. Remedy	
85-2B03	For R&D
A. Operation / B. Cause / C. Remedy	
85-2B04	For R&D
A. Operation / B. Cause / C. Remedy	
85-2B05	For R&D
A. Operation / B. Cause / C. Remedy	
85-2B11	For R&D
A. Operation / B. Cause / C. Remedy	
85-2B12	For R&D
A. Operation / B. Cause / C. Remedy	
85-2B13	For R&D
A. Operation / B. Cause / C. Remedy	
85-2B14	For R&D
A. Operation / B. Cause / C. Remedy	
85-2B15	For R&D
A. Operation / B. Cause / C. Remedy	
85-2C01	For R&D
A. Operation / B. Cause / C. Remedy	
85-2C02	For R&D
A. Operation / B. Cause / C. Remedy	
85-2C03	For R&D
A. Operation / B. Cause / C. Remedy	

85-2C04	For R&D
A. Operation / B. Cause / C. Remedy	
85-2C05	For R&D
A. Operation / B. Cause / C. Remedy	
85-2C11	For R&D
A. Operation / B. Cause / C. Remedy	
85-2C12	For R&D
A. Operation / B. Cause / C. Remedy	
85-2C13	For R&D
A. Operation / B. Cause / C. Remedy	
85-2C14	For R&D
A. Operation / B. Cause / C. Remedy	
85-2C15	For R&D
A. Operation / B. Cause / C. Remedy	
85-2D01	For R&D
A. Operation / B. Cause / C. Remedy	
85-2D02	For R&D
A. Operation / B. Cause / C. Remedy	
85-2D03	For R&D
A. Operation / B. Cause / C. Remedy	
85-2D04	For R&D
A. Operation / B. Cause / C. Remedy	
85-2D05	For R&D
A. Operation / B. Cause / C. Remedy	
85-2D11	For R&D
A. Operation / B. Cause / C. Remedy	
85-2D12	For R&D
A. Operation / B. Cause / C. Remedy	
85-2D13	For R&D
A. Operation / B. Cause / C. Remedy	
85-2D14	For R&D
A. Operation / B. Cause / C. Remedy	

85-2D15	For R&D
A. Operation / B. Cause / C. Remedy	
85-2E01	For R&D
A. Operation / B. Cause / C. Remedy	
85-2E02	For R&D
A. Operation / B. Cause / C. Remedy	
85-2E03	For R&D
A. Operation / B. Cause / C. Remedy	
85-2E04	For R&D
A. Operation / B. Cause / C. Remedy	
85-2E05	For R&D
A. Operation / B. Cause / C. Remedy	
85-2E11	For R&D
A. Operation / B. Cause / C. Remedy	
85-2E12	For R&D
A. Operation / B. Cause / C. Remedy	
85-2E13	For R&D
A. Operation / B. Cause / C. Remedy	
85-2E14	For R&D
A. Operation / B. Cause / C. Remedy	
85-2E15	For R&D
A. Operation / B. Cause / C. Remedy	
85-2F01	For R&D
A. Operation / B. Cause / C. Remedy	
85-2F02	For R&D
A. Operation / B. Cause / C. Remedy	
85-2F03	For R&D
A. Operation / B. Cause / C. Remedy	
85-2F04	For R&D
A. Operation / B. Cause / C. Remedy	
85-2F05	For R&D
A. Operation / B. Cause / C. Remedy	

85-2F11	For R&D
A. Operation / B. Cause / C. Remedy	
85-2F12	For R&D
A. Operation / B. Cause / C. Remedy	
85-2F13	For R&D
A. Operation / B. Cause / C. Remedy	
85-2F14	For R&D
A. Operation / B. Cause / C. Remedy	
85-2F15	For R&D
A. Operation / B. Cause / C. Remedy	
85-3001	For R&D
A. Operation / B. Cause / C. Remedy	
85-3002	For R&D
A. Operation / B. Cause / C. Remedy	
85-3003	For R&D
A. Operation / B. Cause / C. Remedy	
85-3004	For R&D
A. Operation / B. Cause / C. Remedy	
85-3005	For R&D
A. Operation / B. Cause / C. Remedy	
85-3011	For R&D
A. Operation / B. Cause / C. Remedy	
85-3012	For R&D
A. Operation / B. Cause / C. Remedy	
85-3013	For R&D
A. Operation / B. Cause / C. Remedy	
85-3014	For R&D
A. Operation / B. Cause / C. Remedy	
85-3015	For R&D
A. Operation / B. Cause / C. Remedy	
85-3101	For R&D
A. Operation / B. Cause / C. Remedy	

85-3102	For R&D
A. Operation / B. Cause / C. Remedy	
85-3103	For R&D
A. Operation / B. Cause / C. Remedy	
85-3104	For R&D
A. Operation / B. Cause / C. Remedy	
85-3105	For R&D
A. Operation / B. Cause / C. Remedy	
85-3111	For R&D
A. Operation / B. Cause / C. Remedy	
85-3112	For R&D
A. Operation / B. Cause / C. Remedy	
85-3113	For R&D
A. Operation / B. Cause / C. Remedy	
85-3114	For R&D
A. Operation / B. Cause / C. Remedy	
85-3115	For R&D
A. Operation / B. Cause / C. Remedy	
85-3201	For R&D
A. Operation / B. Cause / C. Remedy	
85-3202	For R&D
A. Operation / B. Cause / C. Remedy	
85-3203	For R&D
A. Operation / B. Cause / C. Remedy	
85-3204	For R&D
A. Operation / B. Cause / C. Remedy	
85-3205	For R&D
A. Operation / B. Cause / C. Remedy	
85-3211	For R&D
A. Operation / B. Cause / C. Remedy	
85-3212	For R&D
A. Operation / B. Cause / C. Remedy	

85-3213	For R&D
A. Operation / B. Cause / C. Remedy	
85-3214	For R&D
A. Operation / B. Cause / C. Remedy	
85-3215	For R&D
A. Operation / B. Cause / C. Remedy	
85-3301	For R&D
A. Operation / B. Cause / C. Remedy	
85-3302	For R&D
A. Operation / B. Cause / C. Remedy	
85-3303	For R&D
A. Operation / B. Cause / C. Remedy	
85-3304	For R&D
A. Operation / B. Cause / C. Remedy	
85-3305	For R&D
A. Operation / B. Cause / C. Remedy	
85-3311	For R&D
A. Operation / B. Cause / C. Remedy	
85-3312	For R&D
A. Operation / B. Cause / C. Remedy	
85-3313	For R&D
A. Operation / B. Cause / C. Remedy	
85-3314	For R&D
A. Operation / B. Cause / C. Remedy	
85-3315	For R&D
A. Operation / B. Cause / C. Remedy	
85-3401	For R&D
A. Operation / B. Cause / C. Remedy	
85-3402	For R&D
A. Operation / B. Cause / C. Remedy	
85-3403	For R&D
A. Operation / B. Cause / C. Remedy	

85-3404	For R&D
A. Operation / B. Cause / C. Remedy	
85-3405	For R&D
A. Operation / B. Cause / C. Remedy	
85-3411	For R&D
A. Operation / B. Cause / C. Remedy	
85-3412	For R&D
A. Operation / B. Cause / C. Remedy	
85-3413	For R&D
A. Operation / B. Cause / C. Remedy	
85-3414	For R&D
A. Operation / B. Cause / C. Remedy	
85-3415	For R&D
A. Operation / B. Cause / C. Remedy	
85-3501	For R&D
A. Operation / B. Cause / C. Remedy	
85-3502	For R&D
A. Operation / B. Cause / C. Remedy	
85-3503	For R&D
A. Operation / B. Cause / C. Remedy	
85-3504	For R&D
A. Operation / B. Cause / C. Remedy	
85-3505	For R&D
A. Operation / B. Cause / C. Remedy	
85-3511	For R&D
A. Operation / B. Cause / C. Remedy	
85-3512	For R&D
A. Operation / B. Cause / C. Remedy	
85-3513	For R&D
A. Operation / B. Cause / C. Remedy	
85-3514	For R&D
A. Operation / B. Cause / C. Remedy	

85-3515	For R&D
A. Operation / B. Cause / C. Remedy	
85-3601	For R&D
A. Operation / B. Cause / C. Remedy	
85-3602	For R&D
A. Operation / B. Cause / C. Remedy	
85-3603	For R&D
A. Operation / B. Cause / C. Remedy	
85-3604	For R&D
A. Operation / B. Cause / C. Remedy	
85-3605	For R&D
A. Operation / B. Cause / C. Remedy	
85-3611	For R&D
A. Operation / B. Cause / C. Remedy	
85-3612	For R&D
A. Operation / B. Cause / C. Remedy	
85-3613	For R&D
A. Operation / B. Cause / C. Remedy	
85-3614	For R&D
A. Operation / B. Cause / C. Remedy	
85-3615	For R&D
A. Operation / B. Cause / C. Remedy	
85-3701	For R&D
A. Operation / B. Cause / C. Remedy	
85-3702	For R&D
A. Operation / B. Cause / C. Remedy	
85-3703	For R&D
A. Operation / B. Cause / C. Remedy	
85-3704	For R&D
A. Operation / B. Cause / C. Remedy	
85-3705	For R&D
A. Operation / B. Cause / C. Remedy	

85-3711	For R&D
A. Operation / B. Cause / C. Remedy	
85-3712	For R&D
A. Operation / B. Cause / C. Remedy	
85-3713	For R&D
A. Operation / B. Cause / C. Remedy	
85-3714	For R&D
A. Operation / B. Cause / C. Remedy	
85-3715	For R&D
A. Operation / B. Cause / C. Remedy	
85-3801	For R&D
A. Operation / B. Cause / C. Remedy	
85-3802	For R&D
A. Operation / B. Cause / C. Remedy	
85-3803	For R&D
A. Operation / B. Cause / C. Remedy	
85-3804	For R&D
A. Operation / B. Cause / C. Remedy	
85-3805	For R&D
A. Operation / B. Cause / C. Remedy	
85-3811	For R&D
A. Operation / B. Cause / C. Remedy	
85-3812	For R&D
A. Operation / B. Cause / C. Remedy	
85-3813	For R&D
A. Operation / B. Cause / C. Remedy	
85-3814	For R&D
A. Operation / B. Cause / C. Remedy	
85-3815	For R&D
A. Operation / B. Cause / C. Remedy	
85-3901	For R&D
A. Operation / B. Cause / C. Remedy	

85-3902	For R&D
A. Operation / B. Cause / C. Remedy	
85-3903	For R&D
A. Operation / B. Cause / C. Remedy	
85-3904	For R&D
A. Operation / B. Cause / C. Remedy	
85-3905	For R&D
A. Operation / B. Cause / C. Remedy	
85-3911	For R&D
A. Operation / B. Cause / C. Remedy	
85-3912	For R&D
A. Operation / B. Cause / C. Remedy	
85-3913	For R&D
A. Operation / B. Cause / C. Remedy	
85-3914	For R&D
A. Operation / B. Cause / C. Remedy	
85-3915	For R&D
A. Operation / B. Cause / C. Remedy	
85-3A01	For R&D
A. Operation / B. Cause / C. Remedy	
85-3A02	For R&D
A. Operation / B. Cause / C. Remedy	
85-3A03	For R&D
A. Operation / B. Cause / C. Remedy	
85-3A04	For R&D
A. Operation / B. Cause / C. Remedy	
85-3A05	For R&D
A. Operation / B. Cause / C. Remedy	
85-3A11	For R&D
A. Operation / B. Cause / C. Remedy	
85-3A12	For R&D
A. Operation / B. Cause / C. Remedy	

85-3A13	For R&D
A. Operation / B. Cause / C. Remedy	
85-3A14	For R&D
A. Operation / B. Cause / C. Remedy	
85-3A15	For R&D
A. Operation / B. Cause / C. Remedy	
85-3B01	For R&D
A. Operation / B. Cause / C. Remedy	
85-3B02	For R&D
A. Operation / B. Cause / C. Remedy	
85-3B03	For R&D
A. Operation / B. Cause / C. Remedy	
85-3B04	For R&D
A. Operation / B. Cause / C. Remedy	
85-3B05	For R&D
A. Operation / B. Cause / C. Remedy	
85-3B11	For R&D
A. Operation / B. Cause / C. Remedy	
85-3B12	For R&D
A. Operation / B. Cause / C. Remedy	
85-3B13	For R&D
A. Operation / B. Cause / C. Remedy	
85-3B14	For R&D
A. Operation / B. Cause / C. Remedy	
85-3B15	For R&D
A. Operation / B. Cause / C. Remedy	
85-3C01	For R&D
A. Operation / B. Cause / C. Remedy	
85-3C02	For R&D
A. Operation / B. Cause / C. Remedy	
85-3C03	For R&D
A. Operation / B. Cause / C. Remedy	

85-3C04	For R&D
A. Operation / B. Cause / C. Remedy	
85-3C05	For R&D
A. Operation / B. Cause / C. Remedy	
85-3C11	For R&D
A. Operation / B. Cause / C. Remedy	
85-3C12	For R&D
A. Operation / B. Cause / C. Remedy	
85-3C13	For R&D
A. Operation / B. Cause / C. Remedy	
85-3C14	For R&D
A. Operation / B. Cause / C. Remedy	
85-3C15	For R&D
A. Operation / B. Cause / C. Remedy	
85-3D01	For R&D
A. Operation / B. Cause / C. Remedy	
85-3D02	For R&D
A. Operation / B. Cause / C. Remedy	
85-3D03	For R&D
A. Operation / B. Cause / C. Remedy	
85-3D04	For R&D
A. Operation / B. Cause / C. Remedy	
85-3D05	For R&D
A. Operation / B. Cause / C. Remedy	
85-3D11	For R&D
A. Operation / B. Cause / C. Remedy	
85-3D12	For R&D
A. Operation / B. Cause / C. Remedy	
85-3D13	For R&D
A. Operation / B. Cause / C. Remedy	
85-3D14	For R&D
A. Operation / B. Cause / C. Remedy	

85-3D15	For R&D
A. Operation / B. Cause / C. Remedy	
85-3E01	For R&D
A. Operation / B. Cause / C. Remedy	
85-3E02	For R&D
A. Operation / B. Cause / C. Remedy	
85-3E03	For R&D
A. Operation / B. Cause / C. Remedy	
85-3E04	For R&D
A. Operation / B. Cause / C. Remedy	
85-3E05	For R&D
A. Operation / B. Cause / C. Remedy	
85-3E11	For R&D
A. Operation / B. Cause / C. Remedy	
85-3E12	For R&D
A. Operation / B. Cause / C. Remedy	
85-3E13	For R&D
A. Operation / B. Cause / C. Remedy	
85-3E14	For R&D
A. Operation / B. Cause / C. Remedy	
85-3E15	For R&D
A. Operation / B. Cause / C. Remedy	
85-3F01	For R&D
A. Operation / B. Cause / C. Remedy	
85-3F02	For R&D
A. Operation / B. Cause / C. Remedy	
85-3F03	For R&D
A. Operation / B. Cause / C. Remedy	
85-3F04	For R&D
A. Operation / B. Cause / C. Remedy	
85-3F05	For R&D
A. Operation / B. Cause / C. Remedy	

85-3F11	For R&D
A. Operation / B. Cause / C. Remedy	
85-3F12	For R&D
A. Operation / B. Cause / C. Remedy	
85-3F13	For R&D
A. Operation / B. Cause / C. Remedy	
85-3F14	For R&D
A. Operation / B. Cause / C. Remedy	
85-3F15	For R&D
A. Operation / B. Cause / C. Remedy	
85-4001	For R&D
A. Operation / B. Cause / C. Remedy	
85-4002	For R&D
A. Operation / B. Cause / C. Remedy	
85-4003	For R&D
A. Operation / B. Cause / C. Remedy	
85-4004	For R&D
A. Operation / B. Cause / C. Remedy	
85-4005	For R&D
A. Operation / B. Cause / C. Remedy	
85-4011	For R&D
A. Operation / B. Cause / C. Remedy	
85-4012	For R&D
A. Operation / B. Cause / C. Remedy	
85-4013	For R&D
A. Operation / B. Cause / C. Remedy	
85-4014	For R&D
A. Operation / B. Cause / C. Remedy	
85-4015	For R&D
A. Operation / B. Cause / C. Remedy	
85-4101	For R&D
A. Operation / B. Cause / C. Remedy	

85-4102	For R&D
A. Operation / B. Cause / C. Remedy	
85-4103	For R&D
A. Operation / B. Cause / C. Remedy	
85-4104	For R&D
A. Operation / B. Cause / C. Remedy	
85-4105	For R&D
A. Operation / B. Cause / C. Remedy	
85-4111	For R&D
A. Operation / B. Cause / C. Remedy	
85-4112	For R&D
A. Operation / B. Cause / C. Remedy	
85-4113	For R&D
A. Operation / B. Cause / C. Remedy	
85-4114	For R&D
A. Operation / B. Cause / C. Remedy	
85-4115	For R&D
A. Operation / B. Cause / C. Remedy	
85-4201	For R&D
A. Operation / B. Cause / C. Remedy	
85-4202	For R&D
A. Operation / B. Cause / C. Remedy	
85-4203	For R&D
A. Operation / B. Cause / C. Remedy	
85-4204	For R&D
A. Operation / B. Cause / C. Remedy	
85-4205	For R&D
A. Operation / B. Cause / C. Remedy	
85-4211	For R&D
A. Operation / B. Cause / C. Remedy	
85-4212	For R&D
A. Operation / B. Cause / C. Remedy	

85-4213	For R&D
A. Operation / B. Cause / C. Remedy	
85-4214	For R&D
A. Operation / B. Cause / C. Remedy	
85-4215	For R&D
A. Operation / B. Cause / C. Remedy	
85-4301	For R&D
A. Operation / B. Cause / C. Remedy	
85-4302	For R&D
A. Operation / B. Cause / C. Remedy	
85-4303	For R&D
A. Operation / B. Cause / C. Remedy	
85-4304	For R&D
A. Operation / B. Cause / C. Remedy	
85-4305	For R&D
A. Operation / B. Cause / C. Remedy	
85-4311	For R&D
A. Operation / B. Cause / C. Remedy	
85-4312	For R&D
A. Operation / B. Cause / C. Remedy	
85-4313	For R&D
A. Operation / B. Cause / C. Remedy	
85-4314	For R&D
A. Operation / B. Cause / C. Remedy	
85-4315	For R&D
A. Operation / B. Cause / C. Remedy	
85-4401	For R&D
A. Operation / B. Cause / C. Remedy	
85-4402	For R&D
A. Operation / B. Cause / C. Remedy	
85-4403	For R&D
A. Operation / B. Cause / C. Remedy	

85-4404	For R&D
A. Operation / B. Cause / C. Remedy	
85-4405	For R&D
A. Operation / B. Cause / C. Remedy	
85-4411	For R&D
A. Operation / B. Cause / C. Remedy	
85-4412	For R&D
A. Operation / B. Cause / C. Remedy	
85-4413	For R&D
A. Operation / B. Cause / C. Remedy	
85-4414	For R&D
A. Operation / B. Cause / C. Remedy	
85-4415	For R&D
A. Operation / B. Cause / C. Remedy	
85-4501	For R&D
A. Operation / B. Cause / C. Remedy	
85-4502	For R&D
A. Operation / B. Cause / C. Remedy	
85-4503	For R&D
A. Operation / B. Cause / C. Remedy	
85-4504	For R&D
A. Operation / B. Cause / C. Remedy	
85-4505	For R&D
A. Operation / B. Cause / C. Remedy	
85-4511	For R&D
A. Operation / B. Cause / C. Remedy	
85-4512	For R&D
A. Operation / B. Cause / C. Remedy	
85-4513	For R&D
A. Operation / B. Cause / C. Remedy	
85-4514	For R&D
A. Operation / B. Cause / C. Remedy	

85-4515	For R&D
A. Operation / B. Cause / C. Remedy	
85-4601	For R&D
A. Operation / B. Cause / C. Remedy	
85-4602	For R&D
A. Operation / B. Cause / C. Remedy	
85-4603	For R&D
A. Operation / B. Cause / C. Remedy	
85-4604	For R&D
A. Operation / B. Cause / C. Remedy	
85-4605	For R&D
A. Operation / B. Cause / C. Remedy	
85-4611	For R&D
A. Operation / B. Cause / C. Remedy	
85-4612	For R&D
A. Operation / B. Cause / C. Remedy	
85-4613	For R&D
A. Operation / B. Cause / C. Remedy	
85-4614	For R&D
A. Operation / B. Cause / C. Remedy	
85-4615	For R&D
A. Operation / B. Cause / C. Remedy	
85-4701	For R&D
A. Operation / B. Cause / C. Remedy	
85-4702	For R&D
A. Operation / B. Cause / C. Remedy	
85-4703	For R&D
A. Operation / B. Cause / C. Remedy	
85-4704	For R&D
A. Operation / B. Cause / C. Remedy	
85-4705	For R&D
A. Operation / B. Cause / C. Remedy	

85-4711	For R&D
A. Operation / B. Cause / C. Remedy	
85-4712	For R&D
A. Operation / B. Cause / C. Remedy	
85-4713	For R&D
A. Operation / B. Cause / C. Remedy	
85-4714	For R&D
A. Operation / B. Cause / C. Remedy	
85-4715	For R&D
A. Operation / B. Cause / C. Remedy	
85-4801	For R&D
A. Operation / B. Cause / C. Remedy	
85-4802	For R&D
A. Operation / B. Cause / C. Remedy	
85-4803	For R&D
A. Operation / B. Cause / C. Remedy	
85-4804	For R&D
A. Operation / B. Cause / C. Remedy	
85-4805	For R&D
A. Operation / B. Cause / C. Remedy	
85-4811	For R&D
A. Operation / B. Cause / C. Remedy	
85-4812	For R&D
A. Operation / B. Cause / C. Remedy	
85-4813	For R&D
A. Operation / B. Cause / C. Remedy	
85-4814	For R&D
A. Operation / B. Cause / C. Remedy	
85-4815	For R&D
A. Operation / B. Cause / C. Remedy	
85-4901	For R&D
A. Operation / B. Cause / C. Remedy	

85-4902	For R&D
A. Operation / B. Cause / C. Remedy	
85-4903	For R&D
A. Operation / B. Cause / C. Remedy	
85-4904	For R&D
A. Operation / B. Cause / C. Remedy	
85-4905	For R&D
A. Operation / B. Cause / C. Remedy	
85-4911	For R&D
A. Operation / B. Cause / C. Remedy	
85-4912	For R&D
A. Operation / B. Cause / C. Remedy	
85-4913	For R&D
A. Operation / B. Cause / C. Remedy	
85-4914	For R&D
A. Operation / B. Cause / C. Remedy	
85-4915	For R&D
A. Operation / B. Cause / C. Remedy	
85-4A01	For R&D
A. Operation / B. Cause / C. Remedy	
85-4A02	For R&D
A. Operation / B. Cause / C. Remedy	
85-4A03	For R&D
A. Operation / B. Cause / C. Remedy	
85-4A04	For R&D
A. Operation / B. Cause / C. Remedy	
85-4A05	For R&D
A. Operation / B. Cause / C. Remedy	
85-4A11	For R&D
A. Operation / B. Cause / C. Remedy	
85-4A12	For R&D
A. Operation / B. Cause / C. Remedy	

85-4A13	For R&D
A. Operation / B. Cause / C. Remedy	
85-4A14	For R&D
A. Operation / B. Cause / C. Remedy	
85-4A15	For R&D
A. Operation / B. Cause / C. Remedy	
85-4B01	For R&D
A. Operation / B. Cause / C. Remedy	
85-4B02	For R&D
A. Operation / B. Cause / C. Remedy	
85-4B03	For R&D
A. Operation / B. Cause / C. Remedy	
85-4B04	For R&D
A. Operation / B. Cause / C. Remedy	
85-4B05	For R&D
A. Operation / B. Cause / C. Remedy	
85-4B11	For R&D
A. Operation / B. Cause / C. Remedy	
85-4B12	For R&D
A. Operation / B. Cause / C. Remedy	
85-4B13	For R&D
A. Operation / B. Cause / C. Remedy	
85-4B14	For R&D
A. Operation / B. Cause / C. Remedy	
85-4B15	For R&D
A. Operation / B. Cause / C. Remedy	
85-4C01	For R&D
A. Operation / B. Cause / C. Remedy	
85-4C02	For R&D
A. Operation / B. Cause / C. Remedy	
85-4C03	For R&D
A. Operation / B. Cause / C. Remedy	

85-4C04	For R&D
A. Operation / B. Cause / C. Remedy	
85-4C05	For R&D
A. Operation / B. Cause / C. Remedy	
85-4C11	For R&D
A. Operation / B. Cause / C. Remedy	
85-4C12	For R&D
A. Operation / B. Cause / C. Remedy	
85-4C13	For R&D
A. Operation / B. Cause / C. Remedy	
85-4C14	For R&D
A. Operation / B. Cause / C. Remedy	
85-4C15	For R&D
A. Operation / B. Cause / C. Remedy	
85-4D01	For R&D
A. Operation / B. Cause / C. Remedy	
85-4D02	For R&D
A. Operation / B. Cause / C. Remedy	
85-4D03	For R&D
A. Operation / B. Cause / C. Remedy	
85-4D04	For R&D
A. Operation / B. Cause / C. Remedy	
85-4D05	For R&D
A. Operation / B. Cause / C. Remedy	
85-4D11	For R&D
A. Operation / B. Cause / C. Remedy	
85-4D12	For R&D
A. Operation / B. Cause / C. Remedy	
85-4D13	For R&D
A. Operation / B. Cause / C. Remedy	
85-4D14	For R&D
A. Operation / B. Cause / C. Remedy	

85-4D15	For R&D
A. Operation / B. Cause / C. Remedy	
85-4E01	For R&D
A. Operation / B. Cause / C. Remedy	
85-4E02	For R&D
A. Operation / B. Cause / C. Remedy	
85-4E03	For R&D
A. Operation / B. Cause / C. Remedy	
85-4E04	For R&D
A. Operation / B. Cause / C. Remedy	
85-4E05	For R&D
A. Operation / B. Cause / C. Remedy	
85-4E11	For R&D
A. Operation / B. Cause / C. Remedy	
85-4E12	For R&D
A. Operation / B. Cause / C. Remedy	
85-4E13	For R&D
A. Operation / B. Cause / C. Remedy	
85-4E14	For R&D
A. Operation / B. Cause / C. Remedy	
85-4E15	For R&D
A. Operation / B. Cause / C. Remedy	
85-4F01	For R&D
A. Operation / B. Cause / C. Remedy	
85-4F02	For R&D
A. Operation / B. Cause / C. Remedy	
85-4F03	For R&D
A. Operation / B. Cause / C. Remedy	
85-4F04	For R&D
A. Operation / B. Cause / C. Remedy	
85-4F05	For R&D
A. Operation / B. Cause / C. Remedy	

85-4F11	For R&D
A. Operation / B. Cause / C. Remedy	
85-4F12	For R&D
A. Operation / B. Cause / C. Remedy	
85-4F13	For R&D
A. Operation / B. Cause / C. Remedy	
85-4F14	For R&D
A. Operation / B. Cause / C. Remedy	
85-4F15	For R&D
A. Operation / B. Cause / C. Remedy	
85-5001	For R&D
A. Operation / B. Cause / C. Remedy	
85-5002	For R&D
A. Operation / B. Cause / C. Remedy	
85-5003	For R&D
A. Operation / B. Cause / C. Remedy	
85-5004	For R&D
A. Operation / B. Cause / C. Remedy	
85-5005	For R&D
A. Operation / B. Cause / C. Remedy	
85-5011	For R&D
A. Operation / B. Cause / C. Remedy	
85-5012	For R&D
A. Operation / B. Cause / C. Remedy	
85-5013	For R&D
A. Operation / B. Cause / C. Remedy	
85-5014	For R&D
A. Operation / B. Cause / C. Remedy	
85-5015	For R&D
A. Operation / B. Cause / C. Remedy	
85-5101	For R&D
A. Operation / B. Cause / C. Remedy	

85-5102	For R&D
A. Operation / B. Cause / C. Remedy	
85-5103	For R&D
A. Operation / B. Cause / C. Remedy	
85-5104	For R&D
A. Operation / B. Cause / C. Remedy	
85-5105	For R&D
A. Operation / B. Cause / C. Remedy	
85-5111	For R&D
A. Operation / B. Cause / C. Remedy	
85-5112	For R&D
A. Operation / B. Cause / C. Remedy	
85-5113	For R&D
A. Operation / B. Cause / C. Remedy	
85-5114	For R&D
A. Operation / B. Cause / C. Remedy	
85-5115	For R&D
A. Operation / B. Cause / C. Remedy	
85-5201	For R&D
A. Operation / B. Cause / C. Remedy	
85-5202	For R&D
A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-5205	For R&D
A. Operation / B. Cause / C. Remedy	
85-5211	For R&D
A. Operation / B. Cause / C. Remedy	
85-5212	For R&D
A. Operation / B. Cause / C. Remedy	

85-5213	For R&D
A. Operation / B. Cause / C. Remedy	
85-5214	For R&D
A. Operation / B. Cause / C. Remedy	
85-5215	For R&D
A. Operation / B. Cause / C. Remedy	
85-5301	For R&D
A. Operation / B. Cause / C. Remedy	
85-5302	For R&D
A. Operation / B. Cause / C. Remedy	
85-5303	For R&D
A. Operation / B. Cause / C. Remedy	
85-5304	For R&D
A. Operation / B. Cause / C. Remedy	
85-5305	For R&D
A. Operation / B. Cause / C. Remedy	
85-5311	For R&D
A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-5313	For R&D
A. Operation / B. Cause / C. Remedy	
85-5314	For R&D
A. Operation / B. Cause / C. Remedy	
85-5315	For R&D
A. Operation / B. Cause / C. Remedy	
85-5401	For R&D
A. Operation / B. Cause / C. Remedy	
85-5402	For R&D
A. Operation / B. Cause / C. Remedy	
85-5403	For R&D
A. Operation / B. Cause / C. Remedy	

85-5404	For R&D
A. Operation / B. Cause / C. Remedy	
85-5405	For R&D
A. Operation / B. Cause / C. Remedy	
85-5411	For R&D
A. Operation / B. Cause / C. Remedy	
85-5412	For R&D
A. Operation / B. Cause / C. Remedy	
85-5413	For R&D
A. Operation / B. Cause / C. Remedy	
85-5414	For R&D
A. Operation / B. Cause / C. Remedy	
85-5415	For R&D
A. Operation / B. Cause / C. Remedy	
85-5501	For R&D
A. Operation / B. Cause / C. Remedy	
85-5502	For R&D
A. Operation / B. Cause / C. Remedy	
85-5503	For R&D
A. Operation / B. Cause / C. Remedy	
85-5504	For R&D
A. Operation / B. Cause / C. Remedy	
85-5505	For R&D
A. Operation / B. Cause / C. Remedy	
85-5511	For R&D
A. Operation / B. Cause / C. Remedy	
85-5512	For R&D
A. Operation / B. Cause / C. Remedy	
85-5513	For R&D
A. Operation / B. Cause / C. Remedy	
85-5514	For R&D
A. Operation / B. Cause / C. Remedy	

85-5515	For R&D
A. Operation / B. Cause / C. Remedy	
85-5601	For R&D
A. Operation / B. Cause / C. Remedy	
85-5602	For R&D
A. Operation / B. Cause / C. Remedy	
85-5603	For R&D
A. Operation / B. Cause / C. Remedy	
85-5604	For R&D
A. Operation / B. Cause / C. Remedy	
85-5605	For R&D
A. Operation / B. Cause / C. Remedy	
85-5611	For R&D
A. Operation / B. Cause / C. Remedy	
85-5612	For R&D
A. Operation / B. Cause / C. Remedy	
85-5613	For R&D
A. Operation / B. Cause / C. Remedy	
85-5614	For R&D
A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-5701	For R&D
A. Operation / B. Cause / C. Remedy	
85-5702	For R&D
A. Operation / B. Cause / C. Remedy	
85-5703	For R&D
A. Operation / B. Cause / C. Remedy	
85-5704	For R&D
A. Operation / B. Cause / C. Remedy	
85-5705	For R&D
A. Operation / B. Cause / C. Remedy	

85-5711	For R&D
A. Operation / B. Cause / C. Remedy	
85-5712	For R&D
A. Operation / B. Cause / C. Remedy	
85-5713	For R&D
A. Operation / B. Cause / C. Remedy	
85-5714	For R&D
A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-5801	For R&D
A. Operation / B. Cause / C. Remedy	
85-5802	For R&D
A. Operation / B. Cause / C. Remedy	
85-5803	For R&D
A. Operation / B. Cause / C. Remedy	
85-5804	For R&D
A. Operation / B. Cause / C. Remedy	
85-5805	For R&D
A. Operation / B. Cause / C. Remedy	
85-5811	For R&D
A. Operation / B. Cause / C. Remedy	
85-5812	For R&D
A. Operation / B. Cause / C. Remedy	
85-5813	For R&D
A. Operation / B. Cause / C. Remedy	
85-5814	For R&D
A. Operation / B. Cause / C. Remedy	
85-5815	For R&D
A. Operation / B. Cause / C. Remedy	
85-5901	For R&D
A. Operation / B. Cause / C. Remedy	

85-5902	For R&D
A. Operation / B. Cause / C. Remedy	
85-5903	For R&D
A. Operation / B. Cause / C. Remedy	
85-5904	For R&D
A. Operation / B. Cause / C. Remedy	
85-5905	For R&D
A. Operation / B. Cause / C. Remedy	
85-5911	For R&D
A. Operation / B. Cause / C. Remedy	
85-5912	For R&D
A. Operation / B. Cause / C. Remedy	
85-5913	For R&D
A. Operation / B. Cause / C. Remedy	
85-5914	For R&D
A. Operation / B. Cause / C. Remedy	
85-5915	For R&D
A. Operation / B. Cause / C. Remedy	
85-5A01	For R&D
A. Operation / B. Cause / C. Remedy	
85-5A02	For R&D
A. Operation / B. Cause / C. Remedy	
85-5A03	For R&D
A. Operation / B. Cause / C. Remedy	
85-5A04	For R&D
A. Operation / B. Cause / C. Remedy	
85-5A05	For R&D
A. Operation / B. Cause / C. Remedy	
85-5A11	For R&D
A. Operation / B. Cause / C. Remedy	
85-5A12	For R&D
A. Operation / B. Cause / C. Remedy	

85-5A13	For R&D
A. Operation / B. Cause / C. Remedy	
85-5A14	For R&D
A. Operation / B. Cause / C. Remedy	
85-5A15	For R&D
A. Operation / B. Cause / C. Remedy	
85-5B01	For R&D
A. Operation / B. Cause / C. Remedy	
85-5B02	For R&D
A. Operation / B. Cause / C. Remedy	
85-5B03	For R&D
A. Operation / B. Cause / C. Remedy	
85-5B04	For R&D
A. Operation / B. Cause / C. Remedy	
85-5B05	For R&D
A. Operation / B. Cause / C. Remedy	
85-5B11	For R&D
A. Operation / B. Cause / C. Remedy	
85-5B12	For R&D
A. Operation / B. Cause / C. Remedy	
85-5B13	For R&D
A. Operation / B. Cause / C. Remedy	
85-5B14	For R&D
A. Operation / B. Cause / C. Remedy	
85-5B15	For R&D
A. Operation / B. Cause / C. Remedy	
85-5C01	For R&D
A. Operation / B. Cause / C. Remedy	
85-5C02	For R&D
A. Operation / B. Cause / C. Remedy	
85-5C03	For R&D
A. Operation / B. Cause / C. Remedy	

85-5C04	For R&D
A. Operation / B. Cause / C. Remedy	
85-5C05	For R&D
A. Operation / B. Cause / C. Remedy	
85-5C11	For R&D
A. Operation / B. Cause / C. Remedy	
85-5C12	For R&D
A. Operation / B. Cause / C. Remedy	
85-5C13	For R&D
A. Operation / B. Cause / C. Remedy	
85-5C14	For R&D
A. Operation / B. Cause / C. Remedy	
85-5C15	For R&D
A. Operation / B. Cause / C. Remedy	
85-5D01	For R&D
A. Operation / B. Cause / C. Remedy	
85-5D02	For R&D
A. Operation / B. Cause / C. Remedy	
85-5D03	For R&D
A. Operation / B. Cause / C. Remedy	
85-5D04	For R&D
A. Operation / B. Cause / C. Remedy	
85-5D05	For R&D
A. Operation / B. Cause / C. Remedy	
85-5D11	For R&D
A. Operation / B. Cause / C. Remedy	
85-5D12	For R&D
A. Operation / B. Cause / C. Remedy	
85-5D13	For R&D
A. Operation / B. Cause / C. Remedy	
85-5D14	For R&D
A. Operation / B. Cause / C. Remedy	

85-5D15	For R&D
A. Operation / B. Cause / C. Remedy	
85-5E01	For R&D
A. Operation / B. Cause / C. Remedy	
85-5E02	For R&D
A. Operation / B. Cause / C. Remedy	
85-5E03	For R&D
A. Operation / B. Cause / C. Remedy	
85-5E04	For R&D
A. Operation / B. Cause / C. Remedy	
85-5E05	For R&D
A. Operation / B. Cause / C. Remedy	
85-5E11	For R&D
A. Operation / B. Cause / C. Remedy	
85-5E12	For R&D
A. Operation / B. Cause / C. Remedy	
85-5E13	For R&D
A. Operation / B. Cause / C. Remedy	
85-5E14	For R&D
A. Operation / B. Cause / C. Remedy	
85-5E15	For R&D
A. Operation / B. Cause / C. Remedy	
85-5F01	For R&D
A. Operation / B. Cause / C. Remedy	
85-5F02	For R&D
A. Operation / B. Cause / C. Remedy	
85-5F03	For R&D
A. Operation / B. Cause / C. Remedy	
85-5F04	For R&D
A. Operation / B. Cause / C. Remedy	
85-5F05	For R&D
A. Operation / B. Cause / C. Remedy	

85-5F11	For R&D
A. Operation / B. Cause / C. Remedy	
85-5F12	For R&D
A. Operation / B. Cause / C. Remedy	
85-5F13	For R&D
A. Operation / B. Cause / C. Remedy	
85-5F14	For R&D
A. Operation / B. Cause / C. Remedy	
85-5F15	For R&D
A. Operation / B. Cause / C. Remedy	
85-6001	For R&D
A. Operation / B. Cause / C. Remedy	
85-6002	For R&D
A. Operation / B. Cause / C. Remedy	
85-6003	For R&D
A. Operation / B. Cause / C. Remedy	
85-6004	For R&D
A. Operation / B. Cause / C. Remedy	
85-6005	For R&D
A. Operation / B. Cause / C. Remedy	
85-6011	For R&D
A. Operation / B. Cause / C. Remedy	
85-6012	For R&D
A. Operation / B. Cause / C. Remedy	
85-6013	For R&D
A. Operation / B. Cause / C. Remedy	
85-6014	For R&D
A. Operation / B. Cause / C. Remedy	
85-6015	For R&D
A. Operation / B. Cause / C. Remedy	
85-6101	For R&D
A. Operation / B. Cause / C. Remedy	

85-6102	For R&D
A. Operation / B. Cause / C. Remedy	
85-6103	For R&D
A. Operation / B. Cause / C. Remedy	
85-6104	For R&D
A. Operation / B. Cause / C. Remedy	
85-6105	For R&D
A. Operation / B. Cause / C. Remedy	
85-6111	For R&D
A. Operation / B. Cause / C. Remedy	
85-6112	For R&D
A. Operation / B. Cause / C. Remedy	
85-6113	For R&D
A. Operation / B. Cause / C. Remedy	
85-6114	For R&D
A. Operation / B. Cause / C. Remedy	
85-6115	For R&D
A. Operation / B. Cause / C. Remedy	
85-6201	For R&D
A. Operation / B. Cause / C. Remedy	
85-6202	For R&D
A. Operation / B. Cause / C. Remedy	
85-6203	For R&D
A. Operation / B. Cause / C. Remedy	
85-6204	For R&D
A. Operation / B. Cause / C. Remedy	
85-6205	For R&D
A. Operation / B. Cause / C. Remedy	
85-6211	For R&D
A. Operation / B. Cause / C. Remedy	
85-6212	For R&D
A. Operation / B. Cause / C. Remedy	

85-6213	For R&D
A. Operation / B. Cause / C. Remedy	
85-6214	For R&D
A. Operation / B. Cause / C. Remedy	
85-6215	For R&D
A. Operation / B. Cause / C. Remedy	
85-6301	For R&D
A. Operation / B. Cause / C. Remedy	
85-6302	For R&D
A. Operation / B. Cause / C. Remedy	
85-6303	For R&D
A. Operation / B. Cause / C. Remedy	
85-6304	For R&D
A. Operation / B. Cause / C. Remedy	
85-6305	For R&D
A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-6402	For R&D
A. Operation / B. Cause / C. Remedy	
85-6403	For R&D
A. Operation / B. Cause / C. Remedy	

85-6404	For R&D
A. Operation / B. Cause / C. Remedy	
85-6405	For R&D
A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-6412	For R&D
A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-6514	For R&D
A. Operation / B. Cause / C. Remedy	

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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-6605	For R&D
A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-6614	For R&D
A. Operation / B. Cause / C. Remedy	
85-6615	For R&D
A. Operation / B. Cause / C. Remedy	
85-6701	For R&D
A. Operation / B. Cause / C. Remedy	
85-6702	For R&D
A. Operation / B. Cause / C. Remedy	
85-6703	For R&D
A. Operation / B. Cause / C. Remedy	
85-6704	For R&D
A. Operation / B. Cause / C. Remedy	
85-6705	For R&D
A. Operation / B. Cause / C. Remedy	

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A. Operation / B. Cause / C. Remedy	
85-6712	For R&D
A. Operation / B. Cause / C. Remedy	
85-6713	For R&D
A. Operation / B. Cause / C. Remedy	
85-6714	For R&D
A. Operation / B. Cause / C. Remedy	
85-6715	For R&D
A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	

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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-6A02	For R&D
A. Operation / B. Cause / C. Remedy	
85-6A03	For R&D
A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-6A05	For R&D
A. Operation / B. Cause / C. Remedy	
85-6A11	For R&D
A. Operation / B. Cause / C. Remedy	
85-6A12	For R&D
A. Operation / B. Cause / C. Remedy	

85-6A13	For R&D
A. Operation / B. Cause / C. Remedy	
85-6A14	For R&D
A. Operation / B. Cause / C. Remedy	
85-6A15	For R&D
A. Operation / B. Cause / C. Remedy	
85-6B01	For R&D
A. Operation / B. Cause / C. Remedy	
85-6B02	For R&D
A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-6B13	For R&D
A. Operation / B. Cause / C. Remedy	
85-6B14	For R&D
A. Operation / B. Cause / C. Remedy	
85-6B15	For R&D
A. Operation / B. Cause / C. Remedy	
85-6C01	For R&D
A. Operation / B. Cause / C. Remedy	
85-6C02	For R&D
A. Operation / B. Cause / C. Remedy	
85-6C03	For R&D
A. Operation / B. Cause / C. Remedy	

85-6C04	For R&D
A. Operation / B. Cause / C. Remedy	
85-6C05	For R&D
A. Operation / B. Cause / C. Remedy	
85-6C11	For R&D
A. Operation / B. Cause / C. Remedy	
85-6C12	For R&D
A. Operation / B. Cause / C. Remedy	
85-6C13	For R&D
A. Operation / B. Cause / C. Remedy	
85-6C14	For R&D
A. Operation / B. Cause / C. Remedy	
85-6C15	For R&D
A. Operation / B. Cause / C. Remedy	
85-6D01	For R&D
A. Operation / B. Cause / C. Remedy	
85-6D02	For R&D
A. Operation / B. Cause / C. Remedy	
85-6D03	For R&D
A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-6D12	For R&D
A. Operation / B. Cause / C. Remedy	
85-6D13	For R&D
A. Operation / B. Cause / C. Remedy	
85-6D14	For R&D
A. Operation / B. Cause / C. Remedy	

85-6D15	For R&D
A. Operation / B. Cause / C. Remedy	
85-6E01	For R&D
A. Operation / B. Cause / C. Remedy	
85-6E02	For R&D
A. Operation / B. Cause / C. Remedy	
85-6E03	For R&D
A. Operation / B. Cause / C. Remedy	
85-6E04	For R&D
A. Operation / B. Cause / C. Remedy	
85-6E05	For R&D
A. Operation / B. Cause / C. Remedy	
85-6E11	For R&D
A. Operation / B. Cause / C. Remedy	
85-6E12	For R&D
A. Operation / B. Cause / C. Remedy	
85-6E13	For R&D
A. Operation / B. Cause / C. Remedy	
85-6E14	For R&D
A. Operation / B. Cause / C. Remedy	
85-6E15	For R&D
A. Operation / B. Cause / C. Remedy	
85-6F01	For R&D
A. Operation / B. Cause / C. Remedy	
85-6F02	For R&D
A. Operation / B. Cause / C. Remedy	
85-6F03	For R&D
A. Operation / B. Cause / C. Remedy	
85-6F04	For R&D
A. Operation / B. Cause / C. Remedy	
85-6F05	For R&D
A. Operation / B. Cause / C. Remedy	

85-6F11	For R&D
A. Operation / B. Cause / C. Remedy	
85-6F12	For R&D
A. Operation / B. Cause / C. Remedy	
85-6F13	For R&D
A. Operation / B. Cause / C. Remedy	
85-6F14	For R&D
A. Operation / B. Cause / C. Remedy	
85-6F15	For R&D
A. Operation / B. Cause / C. Remedy	
85-7001	For R&D
A. Operation / B. Cause / C. Remedy	
85-7002	For R&D
A. Operation / B. Cause / C. Remedy	
85-7003	For R&D
A. Operation / B. Cause / C. Remedy	
85-7004	For R&D
A. Operation / B. Cause / C. Remedy	
85-7005	For R&D
A. Operation / B. Cause / C. Remedy	
85-7011	For R&D
A. Operation / B. Cause / C. Remedy	
85-7012	For R&D
A. Operation / B. Cause / C. Remedy	
85-7013	For R&D
A. Operation / B. Cause / C. Remedy	
85-7014	For R&D
A. Operation / B. Cause / C. Remedy	
85-7015	For R&D
A. Operation / B. Cause / C. Remedy	
85-7101	For R&D
A. Operation / B. Cause / C. Remedy	

85-7102	For R&D
A. Operation / B. Cause / C. Remedy	
85-7103	For R&D
A. Operation / B. Cause / C. Remedy	
85-7104	For R&D
A. Operation / B. Cause / C. Remedy	
85-7105	For R&D
A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-7115	For R&D
A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-7212	For R&D
A. Operation / B. Cause / C. Remedy	

85-7213	For R&D
A. Operation / B. Cause / C. Remedy	
85-7214	For R&D
A. Operation / B. Cause / C. Remedy	
85-7215	For R&D
A. Operation / B. Cause / C. Remedy	
85-7301	For R&D
A. Operation / B. Cause / C. Remedy	
85-7302	For R&D
A. Operation / B. Cause / C. Remedy	
85-7303	For R&D
A. Operation / B. Cause / C. Remedy	
85-7304	For R&D
A. Operation / B. Cause / C. Remedy	
85-7305	For R&D
A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-7315	For R&D
A. Operation / B. Cause / C. Remedy	
85-7401	For R&D
A. Operation / B. Cause / C. Remedy	
85-7402	For R&D
A. Operation / B. Cause / C. Remedy	
85-7403	For R&D
A. Operation / B. Cause / C. Remedy	

85-7404	For R&D
A. Operation / B. Cause / C. Remedy	
85-7405	For R&D
A. Operation / B. Cause / C. Remedy	
85-7411	For R&D
A. Operation / B. Cause / C. Remedy	
85-7412	For R&D
A. Operation / B. Cause / C. Remedy	
85-7413	For R&D
A. Operation / B. Cause / C. Remedy	
85-7414	For R&D
A. Operation / B. Cause / C. Remedy	
85-7415	For R&D
A. Operation / B. Cause / C. Remedy	
85-7501	For R&D
A. Operation / B. Cause / C. Remedy	
85-7502	For R&D
A. Operation / B. Cause / C. Remedy	
85-7503	For R&D
A. Operation / B. Cause / C. Remedy	
85-7504	For R&D
A. Operation / B. Cause / C. Remedy	
85-7505	For R&D
A. Operation / B. Cause / C. Remedy	
85-7511	For R&D
A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-7513	For R&D
A. Operation / B. Cause / C. Remedy	
85-7514	For R&D
A. Operation / B. Cause / C. Remedy	

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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-7602	For R&D
A. Operation / B. Cause / C. Remedy	
85-7603	For R&D
A. Operation / B. Cause / C. Remedy	
85-7604	For R&D
A. Operation / B. Cause / C. Remedy	
85-7605	For R&D
A. Operation / B. Cause / C. Remedy	
85-7611	For R&D
A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-7702	For R&D
A. Operation / B. Cause / C. Remedy	
85-7703	For R&D
A. Operation / B. Cause / C. Remedy	
85-7704	For R&D
A. Operation / B. Cause / C. Remedy	
85-7705	For R&D
A. Operation / B. Cause / C. Remedy	

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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
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A. Operation / B. Cause / C. Remedy	
85-7715	For R&D
A. Operation / B. Cause / C. Remedy	
85-7801	For R&D
A. Operation / B. Cause / C. Remedy	
85-7802	For R&D
A. Operation / B. Cause / C. Remedy	
85-7803	For R&D
A. Operation / B. Cause / C. Remedy	
85-7804	For R&D
A. Operation / B. Cause / C. Remedy	
85-7805	For R&D
A. Operation / B. Cause / C. Remedy	
85-7811	For R&D
A. Operation / B. Cause / C. Remedy	
85-7812	For R&D
A. Operation / B. Cause / C. Remedy	
85-7813	For R&D
A. Operation / B. Cause / C. Remedy	
85-7814	For R&D
A. Operation / B. Cause / C. Remedy	
85-7815	For R&D
A. Operation / B. Cause / C. Remedy	
85-7901	For R&D
A. Operation / B. Cause / C. Remedy	

85-7902	For R&D
A. Operation / B. Cause / C. Remedy	
85-7903	For R&D
A. Operation / B. Cause / C. Remedy	
85-7904	For R&D
A. Operation / B. Cause / C. Remedy	
85-7905	For R&D
A. Operation / B. Cause / C. Remedy	
85-7911	For R&D
A. Operation / B. Cause / C. Remedy	
85-7912	For R&D
A. Operation / B. Cause / C. Remedy	
85-7913	For R&D
A. Operation / B. Cause / C. Remedy	
85-7914	For R&D
A. Operation / B. Cause / C. Remedy	
85-7915	For R&D
A. Operation / B. Cause / C. Remedy	
85-7A01	For R&D
A. Operation / B. Cause / C. Remedy	
85-7A02	For R&D
A. Operation / B. Cause / C. Remedy	
85-7A03	For R&D
A. Operation / B. Cause / C. Remedy	
85-7A04	For R&D
A. Operation / B. Cause / C. Remedy	
85-7A05	For R&D
A. Operation / B. Cause / C. Remedy	
85-7A11	For R&D
A. Operation / B. Cause / C. Remedy	
85-7A12	For R&D
A. Operation / B. Cause / C. Remedy	

85-7A13	For R&D
A. Operation / B. Cause / C. Remedy	
85-7A14	For R&D
A. Operation / B. Cause / C. Remedy	
85-7A15	For R&D
A. Operation / B. Cause / C. Remedy	
85-7B01	For R&D
A. Operation / B. Cause / C. Remedy	
85-7B02	For R&D
A. Operation / B. Cause / C. Remedy	
85-7B03	For R&D
A. Operation / B. Cause / C. Remedy	
85-7B04	For R&D
A. Operation / B. Cause / C. Remedy	
85-7B05	For R&D
A. Operation / B. Cause / C. Remedy	
85-7B11	For R&D
A. Operation / B. Cause / C. Remedy	
85-7B12	For R&D
A. Operation / B. Cause / C. Remedy	
85-7B13	For R&D
A. Operation / B. Cause / C. Remedy	
85-7B14	For R&D
A. Operation / B. Cause / C. Remedy	
85-7B15	For R&D
A. Operation / B. Cause / C. Remedy	
85-7C01	For R&D
A. Operation / B. Cause / C. Remedy	
85-7C02	For R&D
A. Operation / B. Cause / C. Remedy	
85-7C03	For R&D
A. Operation / B. Cause / C. Remedy	

85-7C04	For R&D
A. Operation / B. Cause / C. Remedy	
85-7C05	For R&D
A. Operation / B. Cause / C. Remedy	
85-7C11	For R&D
A. Operation / B. Cause / C. Remedy	
85-7C12	For R&D
A. Operation / B. Cause / C. Remedy	
85-7C13	For R&D
A. Operation / B. Cause / C. Remedy	
85-7C14	For R&D
A. Operation / B. Cause / C. Remedy	
85-7C15	For R&D
A. Operation / B. Cause / C. Remedy	
85-7D01	For R&D
A. Operation / B. Cause / C. Remedy	
85-7D02	For R&D
A. Operation / B. Cause / C. Remedy	
85-7D03	For R&D
A. Operation / B. Cause / C. Remedy	
85-7D04	For R&D
A. Operation / B. Cause / C. Remedy	
85-7D05	For R&D
A. Operation / B. Cause / C. Remedy	
85-7D11	For R&D
A. Operation / B. Cause / C. Remedy	
85-7D12	For R&D
A. Operation / B. Cause / C. Remedy	
85-7D13	For R&D
A. Operation / B. Cause / C. Remedy	
85-7D14	For R&D
A. Operation / B. Cause / C. Remedy	

85-7D15	For R&D
A. Operation / B. Cause / C. Remedy	
85-7E01	For R&D
A. Operation / B. Cause / C. Remedy	
85-7E02	For R&D
A. Operation / B. Cause / C. Remedy	
85-7E03	For R&D
A. Operation / B. Cause / C. Remedy	
85-7E04	For R&D
A. Operation / B. Cause / C. Remedy	
85-7E05	For R&D
A. Operation / B. Cause / C. Remedy	
85-7E11	For R&D
A. Operation / B. Cause / C. Remedy	
85-7E12	For R&D
A. Operation / B. Cause / C. Remedy	
85-7E13	For R&D
A. Operation / B. Cause / C. Remedy	
85-7E14	For R&D
A. Operation / B. Cause / C. Remedy	
85-7E15	For R&D
A. Operation / B. Cause / C. Remedy	
85-7F01	For R&D
A. Operation / B. Cause / C. Remedy	
85-7F02	For R&D
A. Operation / B. Cause / C. Remedy	
85-7F03	For R&D
A. Operation / B. Cause / C. Remedy	
85-7F04	For R&D
A. Operation / B. Cause / C. Remedy	
85-7F05	For R&D
A. Operation / B. Cause / C. Remedy	

85-7F11 For R&D

A. Operation / B. Cause /
C. Remedy

85-7F12 For R&D

A. Operation / B. Cause /
C. Remedy

85-7F13 For R&D

A. Operation / B. Cause /
C. Remedy

85-7F14 For R&D

A. Operation / B. Cause /
C. Remedy

85-7F15 For R&D

A. Operation / B. Cause /
C. Remedy

Jam Code

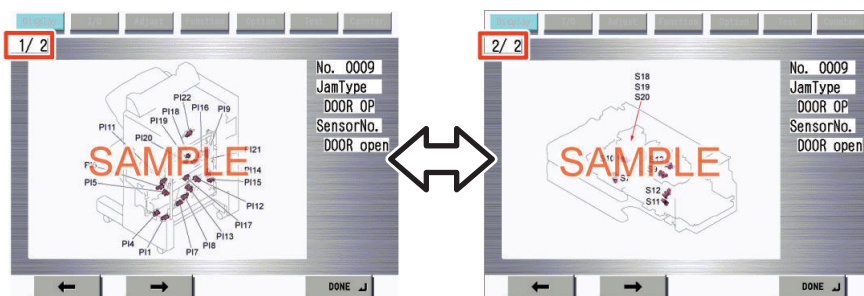
Jam Type

Type	Overview of detection	Check items (in arbitrary order)
DELAY	A delay jam occurs when a sensor was not turned ON although a specified period of time had passed after the start of detection by the sensor.	<ul style="list-style-type: none"> • Remaining paper at the upstream of the target sensor • Soiling on the target sensor • Displacement of the target sensor position • Failure of the target sensor • Soiling (grease)/deterioration/failure of a drive motor located upstream of the target sensor • Soiling (paper dust)/deterioration/failure of a drive roller located upstream of the target sensor
STNRY	A stationary jam occurs when a sensor was not turned OFF although a specified period of time had passed after the sensor was turned ON.	<ul style="list-style-type: none"> • Remaining paper near the target sensor • Soiling on the target sensor • Displacement of the target sensor position • Failure of the target sensor • Soiling (grease)/deterioration/failure of a drive motor located upstream of the target sensor • Soiling (paper dust)/deterioration/failure of a drive roller located upstream of the target sensor
DOOR OP	A door open jam occurs when a sensor detected door open during printing operation.	<ul style="list-style-type: none"> • Door open during printing
COVER OP	A door open jam occurs when a sensor detected cover open during printing operation.	<ul style="list-style-type: none"> • Cover open during printing
ADF OPEN	A door open jam occurs when a sensor detected ADF open during printing operation.	<ul style="list-style-type: none"> • ADF open during printing
SEQUENCE	<p>A sequence jam occurs when there was an error in sensor detection signal at printing operation sequence.</p> <p>Since the jam may occur due to sporadic noise with software of each equipment or communication line (interruption of communication), failure of the part is not the cause of the jam. After the jam is removed, the machine works.</p>	<ul style="list-style-type: none"> • Opening/closing of the door • Turning OFF and then ON the power • Error near the target sensor (soiling/displacement/failure of the sensor, error in harness/open circuit of harness, soiling (grease)/deterioration/failure of a drive motor, or soiling (paper dust)/deterioration/failure of a drive roller)
POWER ON	A power-on jam occurs when a sensor detected ON state at power-on.	<ul style="list-style-type: none"> • Remaining paper in the machine • Soiling on the target sensor • Failure of the target sensor • Foreign matter on the target sensor (paper dust, paper lint)
ERROR	<p>An error avoidance jam occurs when an error in the machine (excluding parts failure) was detected. Printing operation is suspended to avoid error occurrence by error code; therefore, parts failure is not the cause of the jam.</p> <p>After the jam is removed, the machine works.</p> <p>If it is due to parts failure, an error code instead of the error avoidance jam is displayed on UI and printing operation is suspended. In such case, service technician should perform remedial work for the error code.</p>	<ul style="list-style-type: none"> • Opening/closing of the door after jam removal • Turning OFF and then ON the power after jam removal
SIZE ERR	A size error jam occurs when the difference between the paper length detected by the Cassette Guide Plate/specified on the Control Panel and the length measured by the Post-Separation Sensor is out of the specified range.	<ul style="list-style-type: none"> • Difference in paper size • Wrong paper size setting • Error in the Document Size Sensor (soiling/displacement/failure of the sensor) • Error in the Paper Size Detection Unit (failure of mechanical structure for size detection, failure of the Guide Plate, or failure of the Cassette Size Switch)
P-STOP	<p>Forcible stop of paper feed</p> <p>It occurs when a sheet of paper stops at the position specified in service mode.</p>	<ul style="list-style-type: none"> • Using at problem analysis.

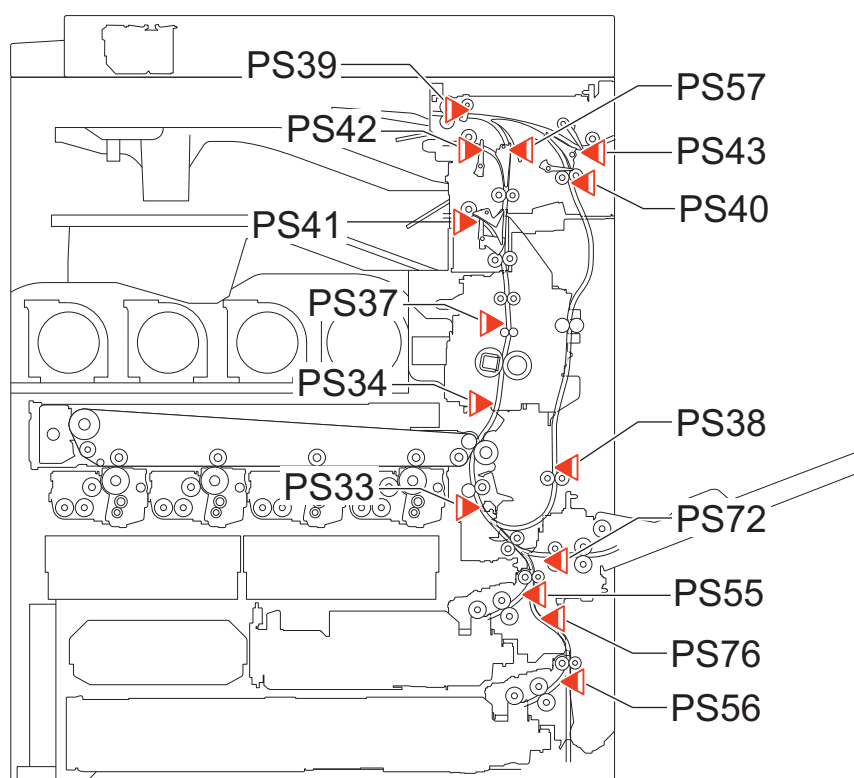
Type	Overview of detection	Check items (in arbitrary order)
Wrapping jam	When the first sensor after the fixing roller is turned ON is turned OFF immediately detection after the detection. Alternatively, when the second sensor after fixing roller is turned ON and immediately after detection, the first sensor is detection turned OFF.	<ul style="list-style-type: none"> Fixing Assembly remaining in Paper Failure of the target sensor Fixing Assembly failure Paper Type Confirmation (Check if paper type cannot be used.)

Jam screen display specification

Due to one jam code being used for multiple options, the illustration for the different option may be displayed on the jam screen. In this case, "1/2" or similar information is displayed on top left side of the screen and this area can be pushed. This operation can be used to switch information on the screen.



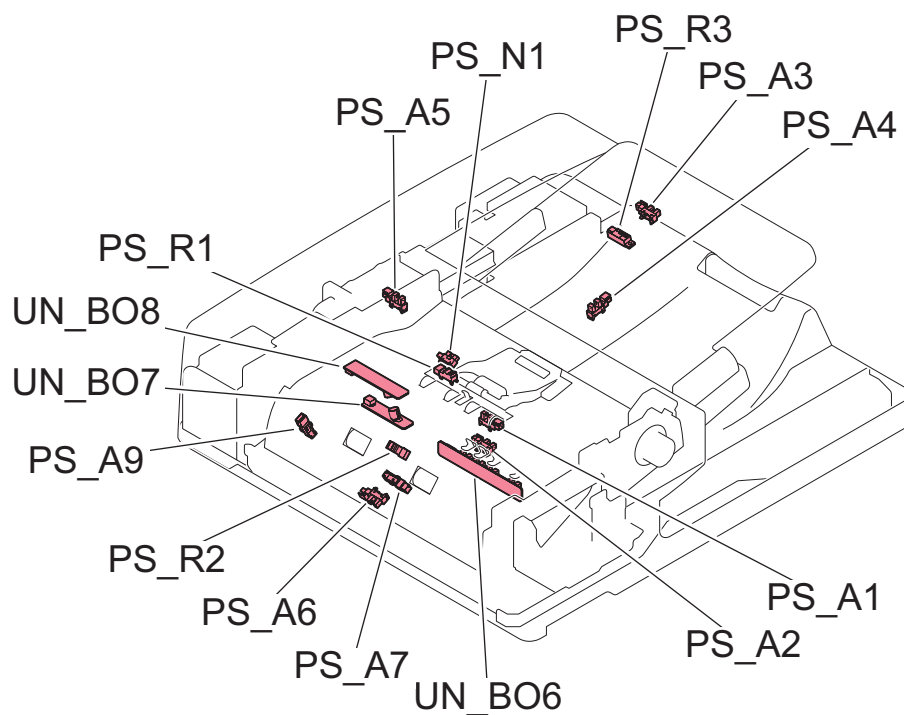
Main Unit

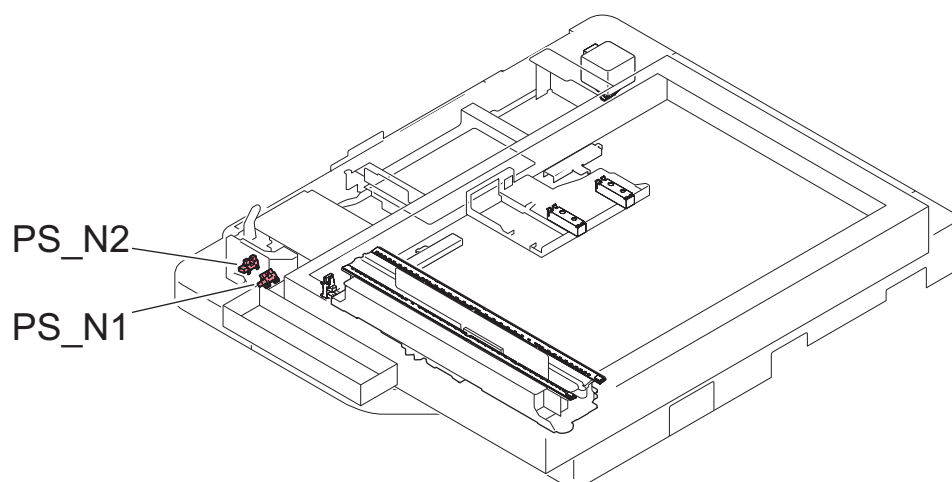


ACC ID	Jam Code	Type	Sensor Name/Description	Sensor ID
00	0101	DELAY	Cassette 1 Pullout Sensor	PS55
00	0102	DELAY	Cassette 2 Pullout Sensor	PS55
00	0105	DELAY	Registration Sensor	PS33

ACC ID	Jam Code	Type	Sensor Name/Description	Sensor ID
00	0106	DELAY	Fixing Inlet Sensor	PS34
00	0107	DELAY	Inner Delivery Sensor	PS37
00	0108	DELAY	First Delivery Sensor	PS41
00	0109	DELAY	Second Delivery Sensor	PS42
00	010A	DELAY	Reverse Sensor	PS39
00	010B	DELAY	Third Delivery Sensor	PS43
00	010C	DELAY	Duplex Inlet Sensor	PS40
00	010D	DELAY	Duplex Paper Sensor	PS38
00	010E	DELAY	Multi-Purpose Tray Pullout Sensor	PS72
00	0114	DELAY	Pre-Reverse Sensor	PS57
00	0115	DELAY	Between-Cassette 1/2 Sensor	PS76
00	0190	DELAY	-	-
00	0201	STNRY	Cassette 1 Pullout Sensor	PS55
00	0202	STNRY	Cassette 2 Pullout Sensor	PS55
00	0205	STNRY	Registration Sensor	PS33
00	0206	STNRY	Fixing Inlet Sensor	PS34
00	0207	STNRY	Inner Delivery Sensor	PS37
00	0208	STNRY	First Delivery Sensor	PS41
00	0209	STNRY	Second Delivery Sensor	PS42
00	020A	STNRY	Reverse Sensor	PS39
00	020B	STNRY	Third Delivery Sensor	PS43
00	020C	STNRY	Duplex Inlet Sensor	PS40
00	020D	STNRY	Duplex Paper Sensor	PS38
00	020E	STNRY	Multi-Purpose Tray Pullout Sensor	PS72
00	0214	STNRY	Pre-Reverse Sensor	PS57
00	0215	STNRY	Between-Cassette 1/2 Sensor	PS76
00	0A01	POWER ON	Cassette 1 Pullout Sensor	PS55
00	0A02	POWER ON	Cassette 2 Pullout Sensor	PS55
00	0A05	POWER ON	Registration Sensor	PS33
00	0A06	POWER ON	Fixing Inlet Sensor	PS34
00	0A07	POWER ON	Inner Delivery Sensor	PS37
00	0A08	POWER ON	First Delivery Sensor	PS41
00	0A09	POWER ON	Second Delivery Sensor	PS42
00	0A0A	POWER ON	Reverse Sensor	PS39
00	0A0B	POWER ON	Third Delivery Sensor	PS43
00	0A0C	POWER ON	Duplex Inlet Sensor	PS40
00	0A0D	POWER ON	Duplex Paper Sensor	PS38
00	0A0E	POWER ON	Multi-Purpose Tray Pullout Sensor	PS72
00	0A14	POWER ON	Pre-Reverse Sensor	PS57
00	0A15	POWER ON	Cassette 1/2 Vertical Pass Sensor	PS76
00	0B00	DOOR OP	Door Open	-
00	0CA1	SEQUENCE	Sequence Jam	-
00	0CA2	SEQUENCE	Sequence Jam	-
00	0CA3	SEQUENCE	Sequence Jam	-
00	0CA4	SEQUENCE	Sequence Jam	-
00	0CA5	SEQUENCE	Sequence Jam	-
00	0CA6	SEQUENCE	Sequence Jam	-
00	0CA7	SEQUENCE	Sequence Jam	-
00	0CA9	SEQUENCE	Sequence Jam	-
00	0CAA	SEQUENCE	Sequence Jam	-
00	0CAB	SEQUENCE	Sequence Jam	-
00	0CAC	SEQUENCE	Sequence Jam	-
00	0CAE	SEQUENCE	Sequence Jam	-
00	0CAF	SEQUENCE	Sequence Jam	-

ACC ID	Jam Code	Type	Sensor Name/Description	Sensor ID
00	0CF1	ERROR	Error Avoidance Jam	-
00	0CFF	OTHER	-	-
00	0D91	SIZE ERR	Size Error	-
00	0F75	ERROR	Error Avoidance Jam	-
00	AA01	P-STOP	Forcible stop of paper feed	-
00	AA20	P-STOP	Forcible stop of paper feed	-
00	AA21	P-STOP	Forcible stop of paper feed	-
00	AA30	P-STOP	Forcible stop of paper feed	-
00	AA31	P-STOP	Forcible stop of paper feed	-
00	AA32	P-STOP	Forcible stop of paper feed	-
00	AA33	P-STOP	Forcible stop of paper feed	-
00	AA40	P-STOP	Forcible stop of paper feed	-
00	AA42	P-STOP	Forcible stop of paper feed	-
00	AA70	P-STOP	Forcible stop of paper feed	-
00	AA71	P-STOP	Forcible stop of paper feed	-
00	AA99	P-STOP	Forcible stop of paper feed	-

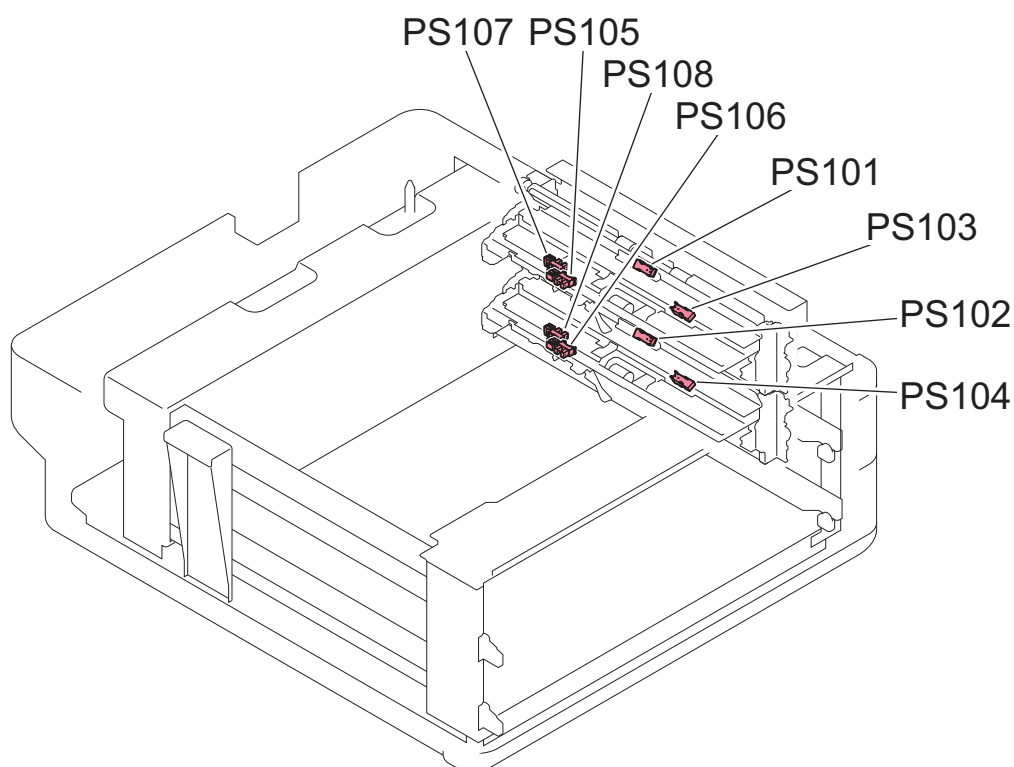




ACC ID	Jam Code	Type	Sensor Name/Description	Sensor ID
01	0001	DELAY	Post-separation Sensor	PS_R1
01	0002	STNRY	Post-separation Sensor	PS_R1
01	0003	DELAY	Arch Sensor	PS_A1
01	0004	STNRY	Arch Sensor	PS_A1
01	0005	DELAY	Registration Sensor	PS_R2
01	0006	STNRY	Registration Sensor	PS_R2
01	0007	DELAY	Lead Sensor 1	PS_A6
01	0008	STNRY	Lead Sensor 1	PS_A6
01	0009	DELAY	Lead Sensor 2	PS_A7
01	0010	STNRY	Lead Sensor 2	PS_A7
01	0020	DOUBLE	Double Feed Detection PCB	UN_BO7, UN_BO8
01	0021	OTHER	Double Feed Detection PCB	UN_BO7, UN_BO8
01	0042	STNRY	Post-separation Sensor	PS_R1
01	0043	DELAY	Arch Sensor	PS_A1
01	0044	STNRY	Arch Sensor	PS_A1
01	0045	DELAY	Registration Sensor	PS_R2
01	0046	STNRY	Registration Sensor	PS_R2
01	0047	DELAY	Lead Sensor 1	PS_A6
01	0048	STNRY	Lead Sensor 1	PS_A6
01	0049	DELAY	Lead Sensor 2	PS_A7
01	0050	STNRY	Lead Sensor 2	PS_A7
01	0060	DOUBLE	Double Feed Detection PCB	UN_BO7, UN_BO8
01	0061	OTHER	Double Feed Detection PCB	UN_BO7, UN_BO8
01	0062	ERROR	Double Feed Detection PCB	UN_BO7, UN_BO8
01	0063	OTHER	Double Feed Detection PCB	UN_BO7, UN_BO8
01	0071	OTHER	-	-
01	0076	OTHER	LTR-R/ LGL Sensor, Large/Small Sensor	PS_R3, PS_A3
01	0090	ADF OPEN	Copyboard Cover Open/Closed Sensor (Front/Rear)	PS_N1, PS_N2
01	0091	ADF OPEN	Copyboard Cover Open/Closed Sensor (Front/Rear)	PS_N1, PS_N2

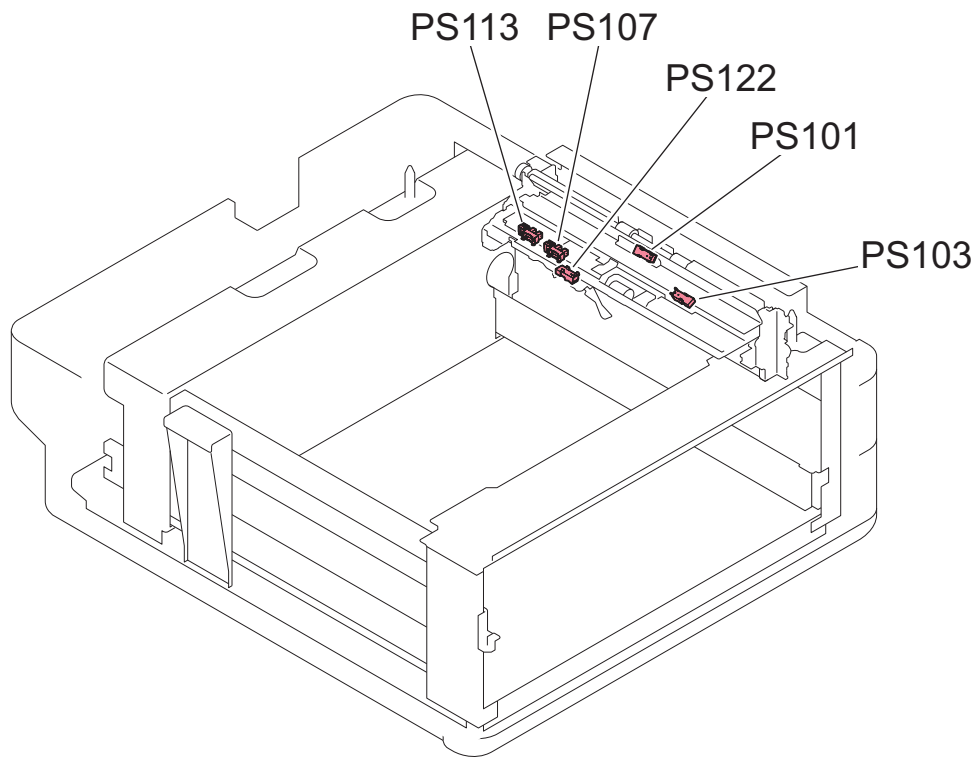
ACC ID	Jam Code	Type	Sensor Name/Description	Sensor ID
01	0092	COVER OP	Cover Open/Closed Sensor	PS_A5
01	0093	COVER OP	Cover Open/Closed Sensor	PS_A5
01	0095	OTHER	Original Sensor	PS_N1
01	0096	OTHER	-	-
01	00A1	POWER ON	Post-separation Sensor	PS_R1
01	00A2	POWER ON	Scanner Unit HP Sensor	PS_A1
01	00A3	POWER ON	Original Size Sensor (Inch)	PS_R2
01	00A4	POWER ON	Lead Sensor 1	PS_A6
01	00A5	POWER ON	Lead Sensor 2	PS_A7

Cassette Feeding Unit-AM1



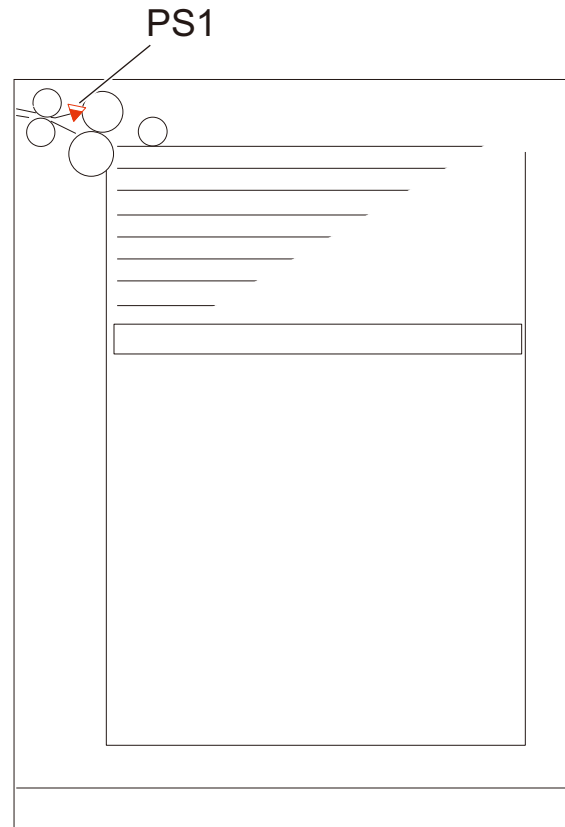
ACC ID	Jam Code	Type	Sensor Name/Description	Sensor ID
00	0103	DELAY	Cassette 3 Pullout Sensor	PS101
00	0104	DELAY	Cassette 4 Pullout Sensor	PS102
00	0203	STNRY	Cassette 3 Pullout Sensor	PS101
00	0204	STNRY	Cassette 4 Pullout Sensor	PS102
00	0A03	POWER ON	Cassette 3 Pullout Sensor	PS101
00	0A04	POWER ON	Cassette 4 Pullout Sensor	PS102

High Capacity Cassette Feeding Unit-A1

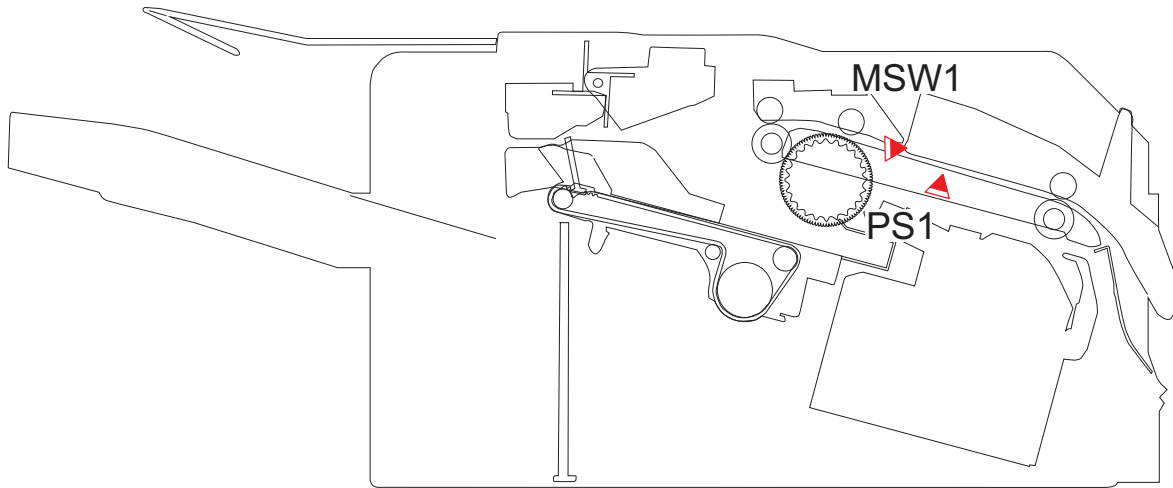


ACC ID	Jam Code	Type	Sensor Name/Description	Sensor ID
00	0103	DELAY	High Capacity Cassette Pullout Sensor	PS101
00	0203	STNRY	High Capacity Cassette Pullout Sensor	PS101
00	0A03	POWER ON	High Capacity Cassette Pullout Sensor	PS101

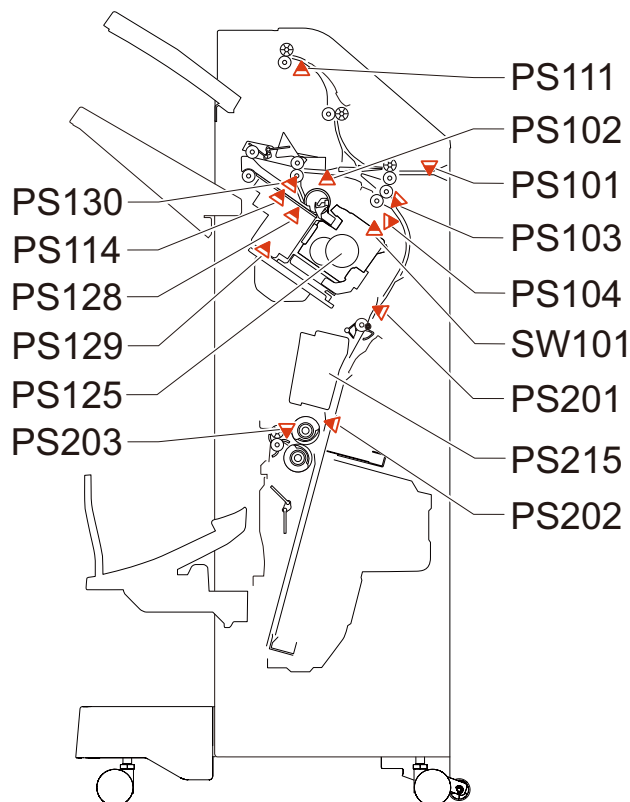
Paper Deck Unit-F1



ACC ID	Jam Code	Type	Sensor Name/Description	Sensor ID
00	010F	DELAY	Deck Pickup Sensor	PS1
00	020F	STNRY	Deck Pickup Sensor	PS1
00	0A0F	POWER ON	Deck Pickup Sensor	PS1


Inner Finisher-H1


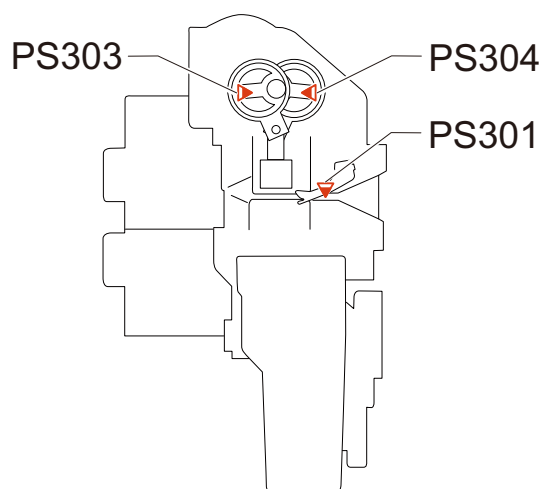
ACC ID	Jam Code	Type	Sensor Name/Description	Sensor ID
02	1001	DELAY	Delivery Sensor	PS1
02	1101	STNRY	Delivery Sensor	PS1
02	1200	TIMING	-	-
02	1301	POWER ON	Delivery Sensor	PS1
02	1400	COVER OP	Front cover switch	MSW1
02	1500	STAPLE	-	-
02	1701	INIT ROT	Delivery Sensor	PS1
02	1801	ERROR	-	-
02	1802	ERROR	-	-
02	1803	ERROR	-	-
02	1804	ERROR	-	-
02	1805	ERROR	-	-
02	1C14	ERROR	-	-
02	1C16	ERROR	-	-
02	1C30	ERROR	-	-
02	1C32	ERROR	-	-
02	1C35	ERROR	-	-
02	1C37	ERROR	-	-
02	1C40	ERROR	-	-
02	1C77	ERROR	-	-
02	1F01	OTHER	-	-
02	1F32	OTHER	-	-
02	1F90	SEQUENCE	-	-


Booklet / Staple Finisher-Y1


ACC ID	Jam Code	Type	Sensor Name	Sensor ID
02	1001	DELAY	Inlet sensor	PS101
02	1002	DELAY	Delivery Sensor	PS102
02	1003	DELAY	Buffer Sensor	PS103
02	1004	DELAY	Escape Delivery Sensor	PS111
02	1008	DELAY	Saddle Delivery Sensor	PS203
02	1009	DELAY	Saddle Inlet Sensor	PS201
02	1101	STNRY	Inlet sensor	PS101
02	1102	STNRY	Delivery Sensor	PS102
02	1103	STNRY	Buffer Sensor	PS103
02	1104	STNRY	Escape Delivery Sensor	PS111
02	1108	STNRY	Saddle Delivery Sensor	PS203
02	1109	STNRY	Saddle Inlet Sensor	PS201
02	1200	OTHER	Timing error	-
02	1301	POWER ON	Inlet sensor	PS101
02	1302	POWER ON	Delivery Sensor	PS102
02	1303	POWER ON	Buffer Sensor	PS103
02	1304	POWER ON	Escape Delivery Sensor	PS111
02	1307	POWER ON	Saddle Processing Tray Paper Sensor	PS202
02	1308	POWER ON	Saddle Delivery Sensor	PS203
02	1309	POWER ON	Saddle Inlet Sensor	PS201
02	1400	COVER OP	Front cover sensor, Front cover switch	PS104, SW101
02	1500	STAPLE	Staple HP sensor	PS125
02	1501	SDL STP	Saddle Stitcher HP Sensor	PS215
02	1801	ERROR	Staple-free Binding Motor Clock Sensor	PS130
02	1802	ERROR	Staple-free Binding HP Sensor	PS129
02	1803	ERROR	Staple free stapling jam (Clinch motor error)	-
02	1804	ERROR	Staple free stapling jam (Staple operation time out error)	-
02	1805	ERROR	Staple free stapling jam (Return operation time out error after stapling)	-

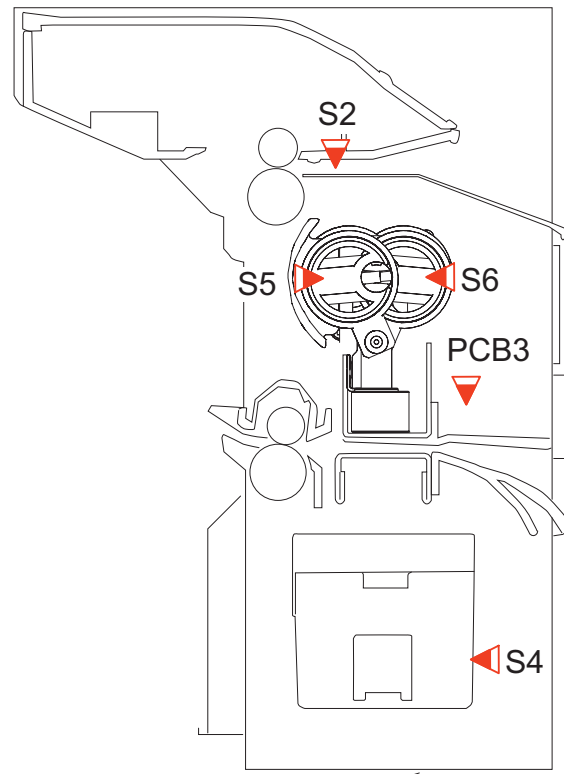
ACC ID	Jam Code	Type	Sensor Name	Sensor ID
02	1C14	ERROR	assist motor error	-
02	1C30	ERROR	rear alignment motor error	-
02	1C32	ERROR	stapler motor error	-
02	1C35	ERROR	return belt motor error	-
02	1C37	ERROR	front alignment motor error	-
02	1C40	ERROR	tray shift motor error	-
02	1C53	ERROR	Escape Delivery Shift Motor	-
02	1C54	ERROR	Safety Switch ON error	-
02	1C77	ERROR	paddle motor error	-
02	1C78	ERROR	Return Roller Lift Motor error	-
02	1C7B	ERROR	Paper End Pushing Guide Motor error	-
02	1C83	ERROR	Tray Auxiliary Guide Motor error	-
02	1CF0	ERROR	Saddle Paper End Stopper Motor error	-
02	1CF1	ERROR	Saddle Delivery Motor error	-
02	1CF3	ERROR	Saddle Alignment Motor error	-
02	1CF6	ERROR	Saddle Paper Pushing Plate/Folding Motor error	-
02	1CF8	ERROR	Saddle Gripper Motor error	-
02	1CFA	ERROR	Saddle Switching Lever Motor error	-
02	1F01	OTHER	Paper feed cancel jam	-
02	1F32	OTHER	Manual stack insertion jam	-
02	1F90	SEQUENCE	-	-

2/4 Hole Puncher Unit-A1



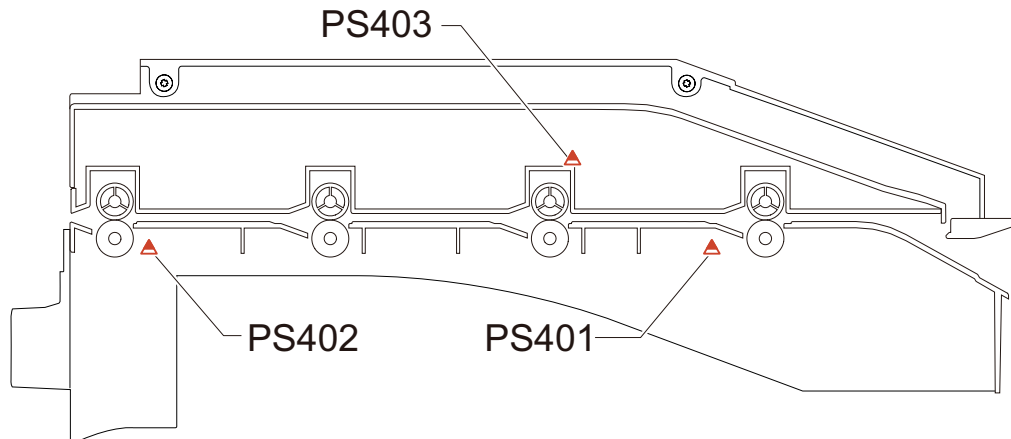
ACC ID	Jam Code	Type	Sensor Name/Description	Sensor ID
02	1600	PUNCH	Punch HP Sensor 1/2	PS303,PS304
02	1C90	ERROR	-	-
02	1C93	ERROR	-	-

Inner 2/4 Hole Puncher-B1



ACC ID	Jam Code	Type	Sensor Name/Description	Sensor ID
02	1002	DELAY	Punch Trailing Edge Sensor	PCB3
02	1003	DELAY	No.2 path sensor	S2
02	1102	STNRY	Punch Trailing Edge Sensor	PCB3
02	1103	STNRY	No.2 path sensor	S2
02	1302	POWER ON	Punch Trailing Edge Sensor	PCB3
02	1303	POWER ON	No.2 path sensor	S2
02	1600	PUNCH	Punch HP Sensor 1/Punch HP Sensor 2	S5, S6
02	1601	PUNCH	Punch Waste Box Sensor	S4
02	1C90	ERROR	-	-
02	1C93	ERROR	-	-

Buffer Pass Unit-L1



ACC ID	Jam Code	Type	Sensor Name/Description	Sensor ID
02	100A	DELAY	Buffer Pass Inlet Sensor	PS401
02	100B	DELAY	Buffer Pass Exit Sensor	PS402
02	110A	STNRY	Buffer Pass Inlet Sensor	PS401
02	110B	STNRY	Buffer Pass Exit Sensor	PS402
02	1201	TIMING	Buffer Pass Inlet Sensor	PS401
02	130A	POWER ON	Buffer Pass Inlet Sensor	PS401
02	130B	POWER ON	Buffer Pass Exit Sensor	PS402
02	1405	COVER OP	OPEN detection sensor	PS403
02	1F3E	ERROR	-	-



Service Mode

Overview.....	879
COPIER (Service mode for printer)	896
FEEDER (ADF service mode).....	1246
SORTER (Service mode for delivery options).....	1251
BOARD (Option board setting mode)	1276
FAX (Service Mode for FAX).....	1277

Overview

It is possible to see each item of service mode so that those who access to service mode can understand how to use them. The main types of this machine's service mode are shown below.

Basic Operations

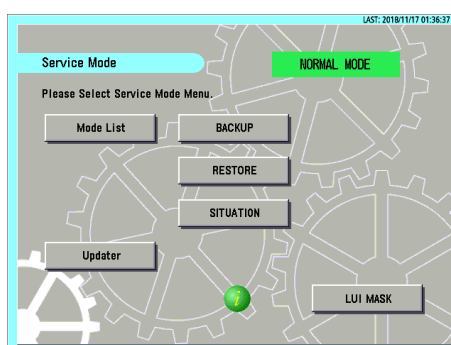
This section describes the basic operation of service mode.

■ Entering Service Mode

For information on how to enter service mode, contact the Support Dept. of the sales company.

■ Service Mode Menu

Press the button in the service mode menu to display the initial screen of each mode. The differences between these modes are described below.



Top Screen

MODELIST

In this mode, functions for referring to each item in service mode, etc. are available.

Updater

This button is used to access the CDS and UGW servers and update system software.

BACKUP

This button is used to back up the service mode setting values.

RESTORE

This button is used to restore the service mode setting values backed up by [BACKUP].

SITUATION

This function displays service mode items according to the situation.

LUI MASK

This button is used to display a mask screen to prevent operations from being performed from the Control Panel while the service mode is being accessed from a remote PC.

NOTE:

For the detailed information on how to use Updater, BACKUP, and RESTORE, refer to the imageRUNNER ADVANCE System Service Manual.

■ Description of Service Mode Items

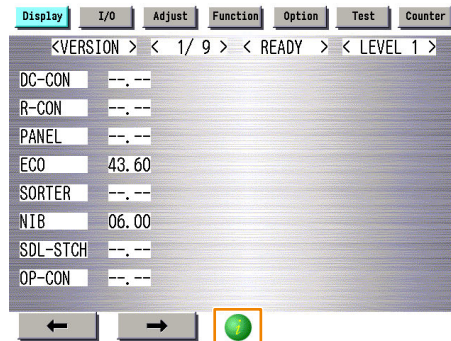
The description of the initial screen, the main items, the intermediate items and the sub items can be displayed. After selecting any item of the initial screen, main item, the intermediate item or the sub item, pressing "i" (Information Button) displays the description of the selected item (hereinafter referred to as the service mode contents).

CAUTION:

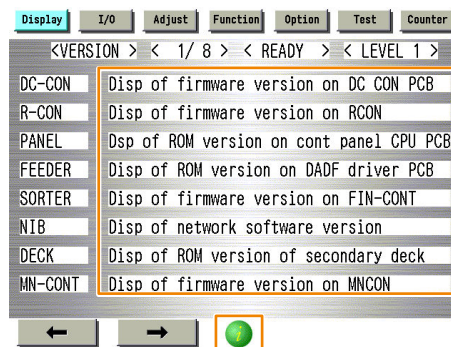
- Displayed language of the service mode contents can be selected from J/E/F/I/G/S/C/K/T.
- The service mode contents can be upgraded using SST or a USB flash drive just like other system software.

Example: COPIER > DISPLAY > VERSION screen

1. Press the [i] button.

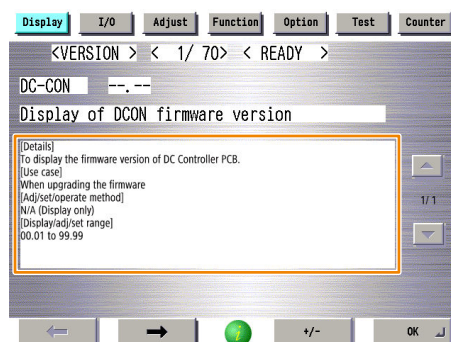


2. The title of each sub item is displayed.



To check the details of each item, select the relevant item and press the [i] button.

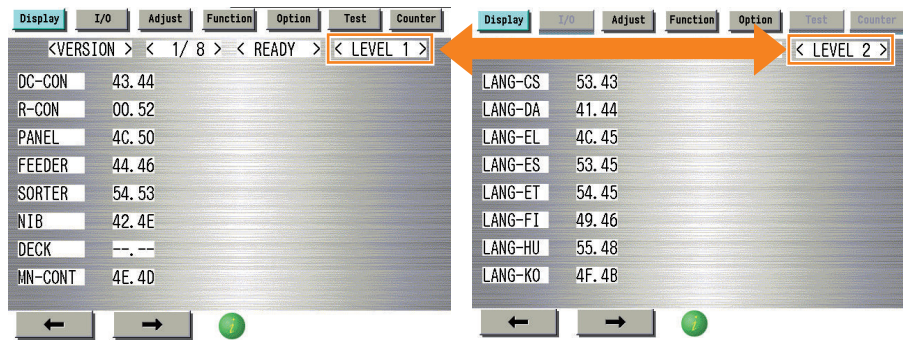
3. A detailed description of the sub item (specifications and use methods, setting screen, etc.) is displayed.



■ Switching the Screen Display (Level 1 <->2)

Switching of screens between Level 1 and Level 2 becomes easier.

By pressing <LEVEL 1> at the upper right of the screen while Level 1 screen is displayed, the screen is switched to Level 2 screen.



Examples of Screen Display

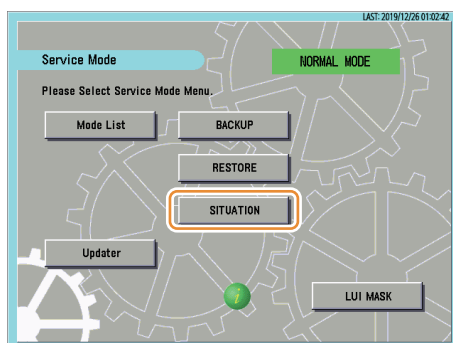
NOTE:

This key combination can be used to enter the Level 2 screen.

- Mode List screen > [Settings/Registration] > [2]

SITUATION Mode

Situation mode has been implemented in this machine to improve workability and searchability at the site. This mode makes it possible to easily use the service mode appropriate for the scene at the site.

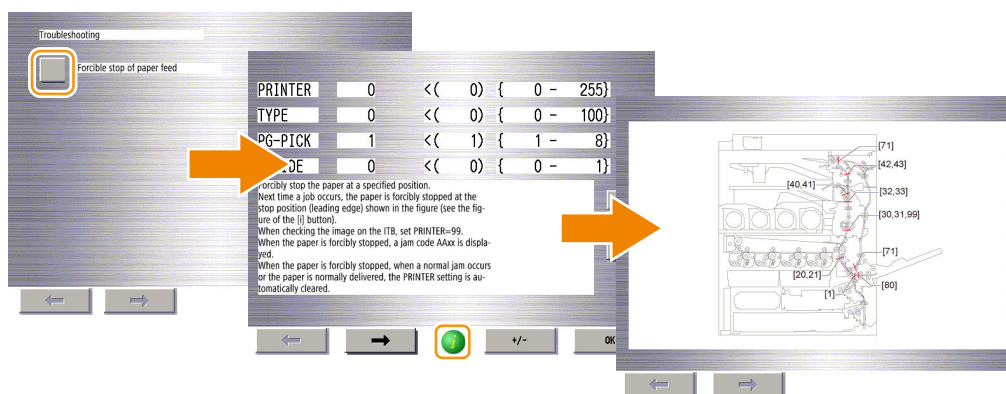


The following items are available in situation mode.

- Install :
To be referred at installation of the machine.
- Troubleshooting :
To be referred at problem solving.
- Parts Replacement :
To be referred at parts replacement.
- Major Adjustment :
To be referred at installation of the machine.
- Sensor Check :
To be referred at checking of the sensor.
- Part Check :
To be referred at operation check of the part.

The following three points are made available depending on each situation:

- Display of related service mode that requires adjustment
- Display of causes and remedies
- Display of related images

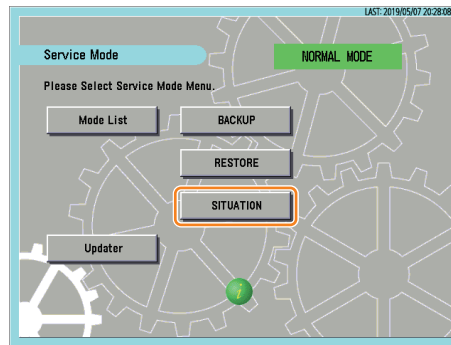


■ How to Use Sensor Check

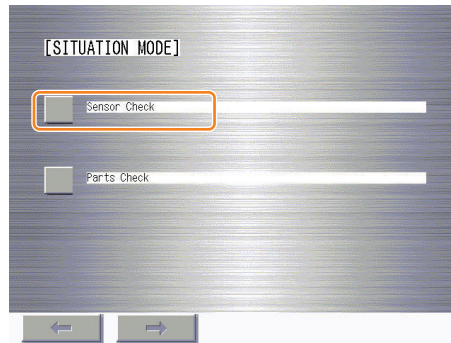
You can find a desired electrical component in Sensor Check of situation mode to review its I/O info. To do this, follow the procedure below.

1. Start service mode.

2. Select "SITUATION".

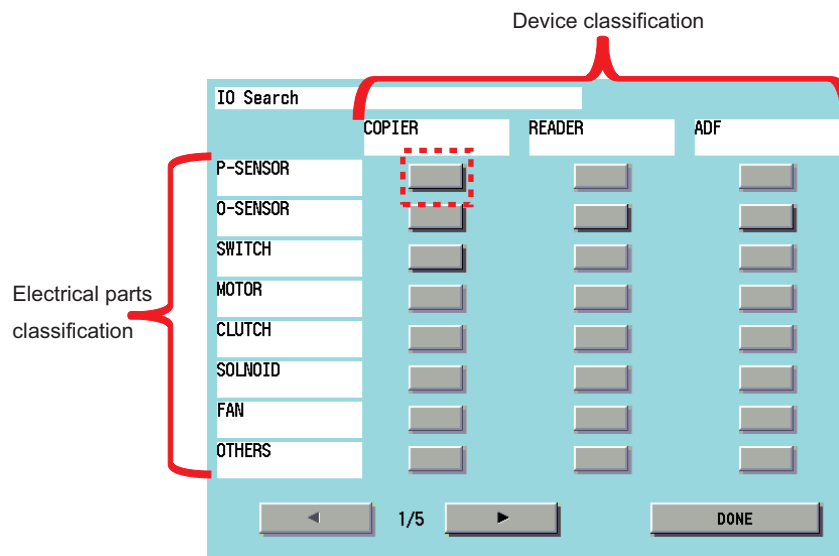


3. On the "SITUATION MODE" screen, select "Sensor Check".

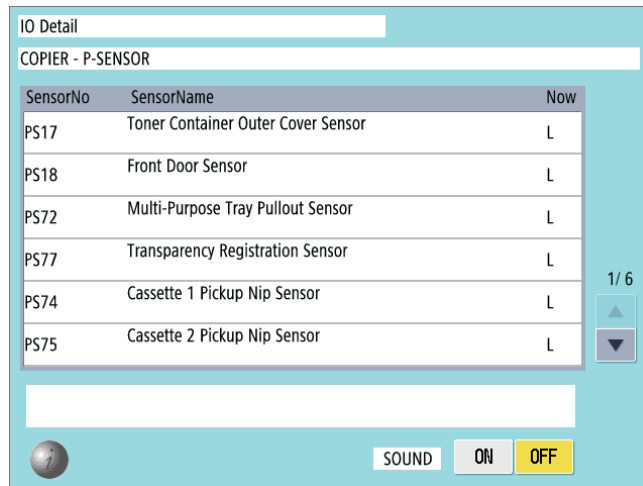


4. Press a button according to the type of electrical component and the corresponding device type.

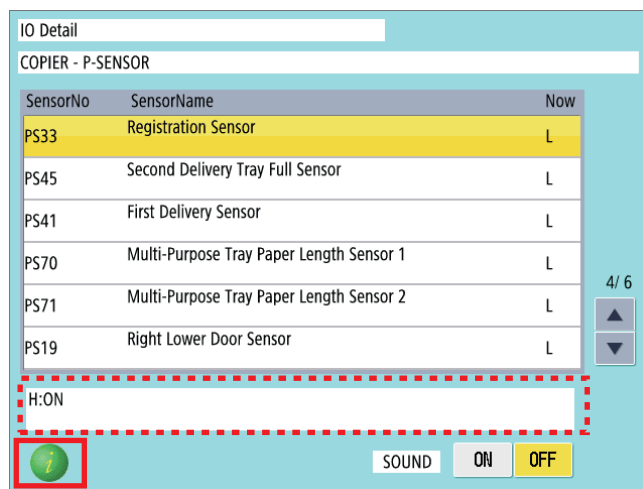
Example: In the case of the Registration Sensor of the host machine, press the button (red dotted frame) at "COPIER"/"P-SENSOR".



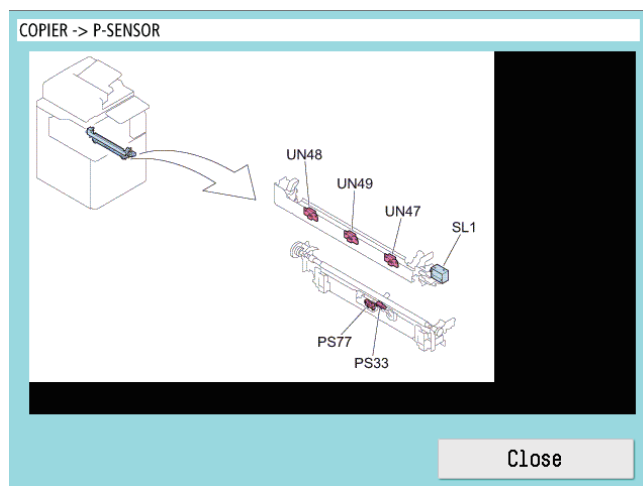
5. A list of electrical component types for the selected device is displayed.



6. Select an electrical component to display the details in the frame (red dotted frame) at the bottom of the screen.



7. Press the [i] button to display the screen showing the locations of electrical components.



■ How to Use Parts Check

In the Parts Check of situation mode, among electrical components used (motors, fans, solenoids, and clutches), those that can operate alone can be operated from the screen and the operations can be checked. The operation procedure is shown below.

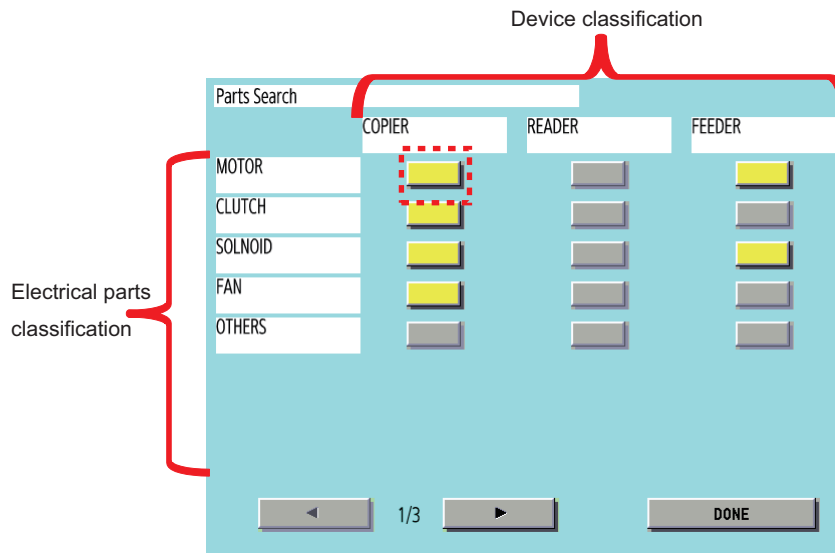
NOTE:

The service mode used below utilizes the system where electrical components used are operated by control signals sent from the DC Controller. If a control signal is sent but the electrical component does not operate, a failure of the electrical component, open circuit of the cable for transmitting control signals, or poor contact of the connector is suspected.

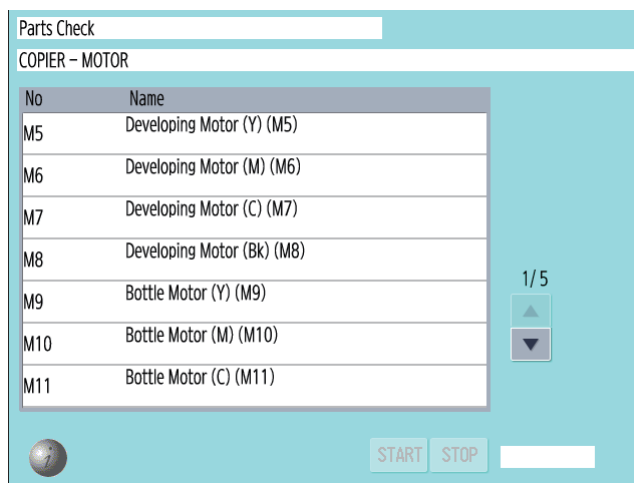
1. Select **SERVICE MODE > SITUATION > Parts Check**.

2. Press a button according to the type of electrical component and the corresponding device type.

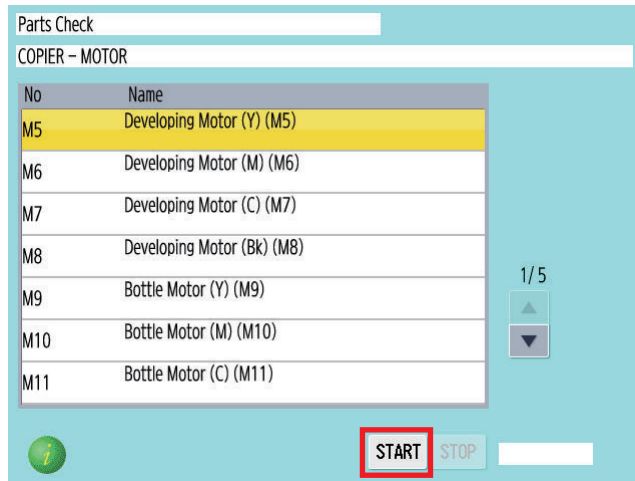
Example: In the case of a motor of the host machine, press the button (red dotted frame) at "COPIER"/"MOTOR".



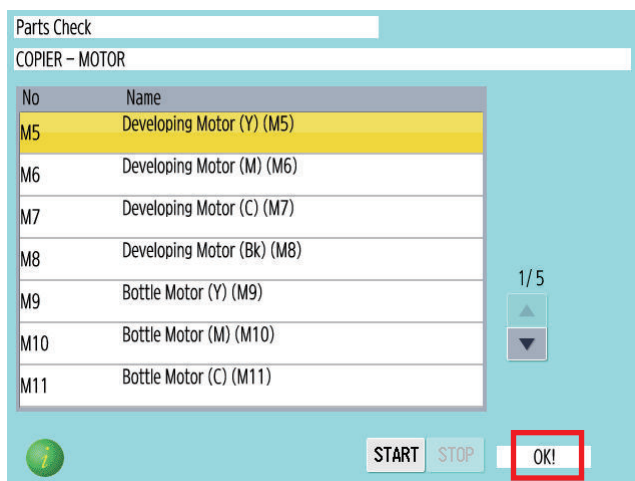
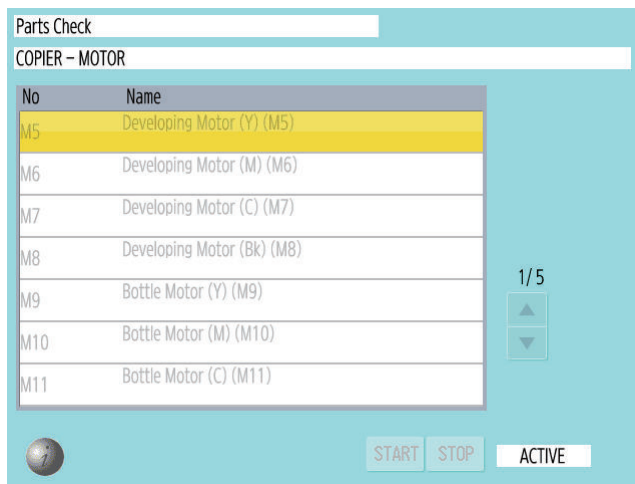
3. A list of electrical component types for the selected device whose operation can be checked is displayed.



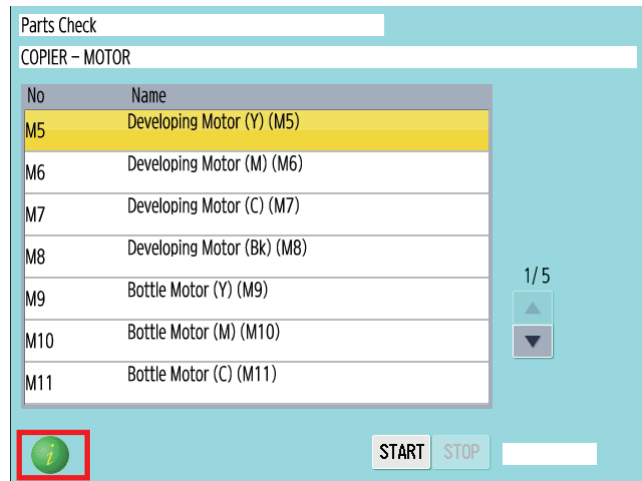
4. Select the electrical component you want to operate and then press the Start button to send a signal for driving the selected electrical component for a specified period of time from the DC Controller.



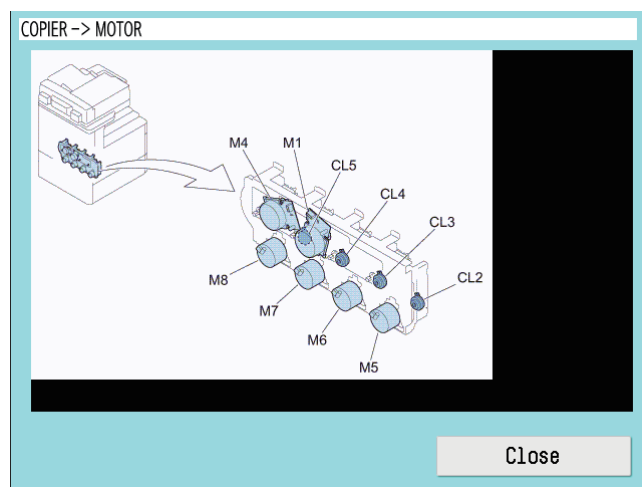
5. "ACTIVE" is displayed while the electrical component is driven. After the electrical component has been driven for a specified period of time, "OK!" is displayed if transmission of the drive signal succeeded, or "NG !" is displayed if failed.



Press the [i] button to display the screen showing the locations of electrical components.



6. The screen showing the locations of electrical components is displayed.



Security Support

A password can be specified to prevent unauthorized access to the service mode.

Related Service Mode:

Setting password type when the screen is switched to the service mode

- COPIER > OPTION > FNC-SW > PSWD-SW (Level 1)

The password for service engineer when the screen is switched to the service mode

- (Level 2) COPIER > OPTION > FNC-SW > SM-PSWD

■ Procedure for Setting Password

1. Set "1" or "2" in the following service mode.

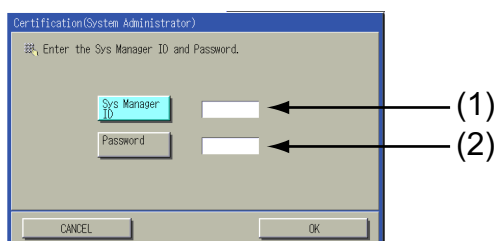
- COPIER > OPTION > FNC-SW > PSWD-SW
<Setting range>
- 0: No password [Default]
- 1: Service technician
- 2: System administrator + Service technician

CAUTION:

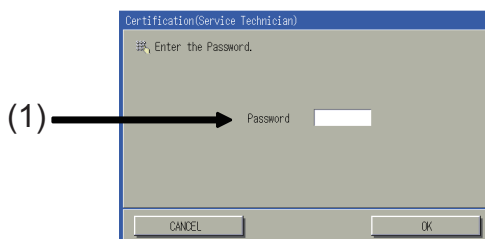
- This setting is enabled without restarting the host machine.
- After setting the password, the following screen will be displayed by accessing service mode.
- Therefore, when the PSWD-SW is set to "2" (system administrator + service technician), enter the system administrator password ([System Manager ID] and [System Manager PIN] in [Settings/Registrations] > [Management Settings] > [User Management] > [System Manager Information Settings]), and then press the [OK] button.

2. Follow the following procedure to check that you can login to service mode.

1. When setting PSWD-SW to "1" (system administrator) or "2" (ServiceMode_070Backup) in step 1, the system administrator password entry screen will be displayed, so enter the system administrator ID in [Sys Manager ID] (1) and system administrator password in [Password] (2), and then press the [OK] button.



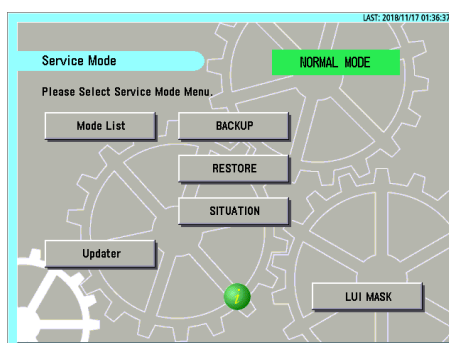
2. When setting PSWD-SW to "2" (system administrator + service technician) in step 1, the service technician password entry screen will be displayed after step 2. Enter the service technician password in [Password] (1), and then press the [OK] button.



CAUTION:

- The service technician password is the password set in COPIER > OPTION > FNC-SW > SM-PSWD.
- If you forget the password for service technician, disable the password function using the Service Support Tool (SST).

Check that you can access service mode and finish the work.



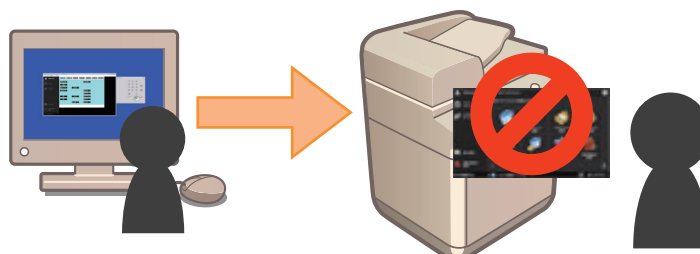
■ Function to Mask the Screen during Remote Access

This function ensures security during servicing work using remote connection.

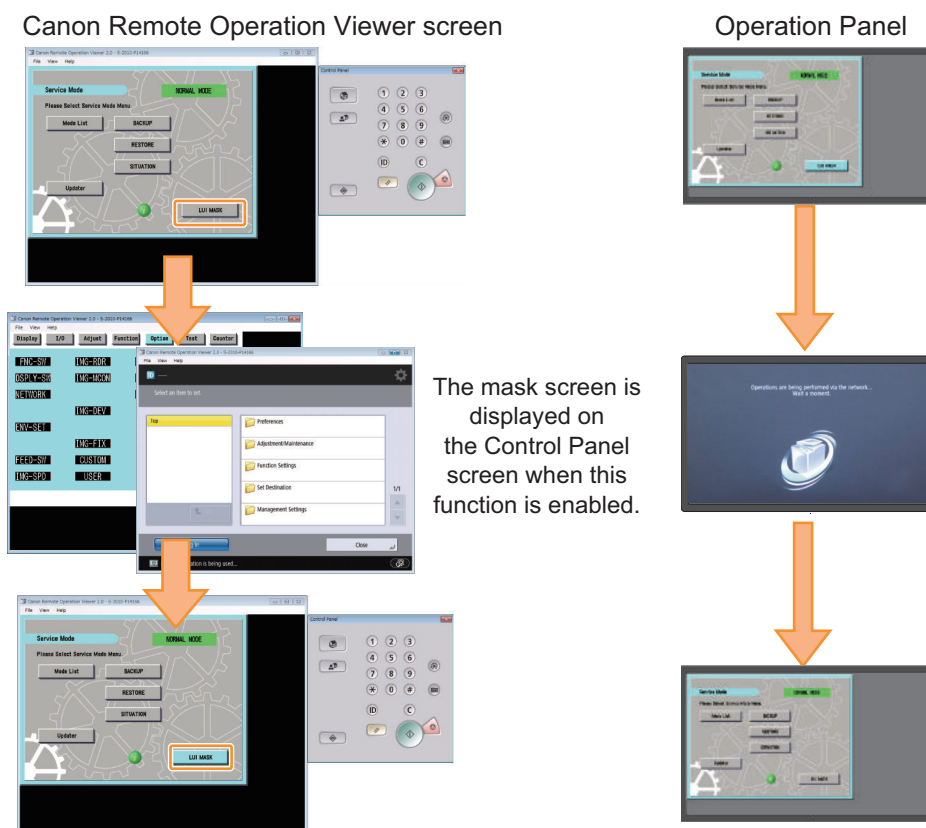
The machine has an option called Remote Operation Viewer for remote control via a network. This option enables a service technician to perform maintenance on the machine from a remote location.

However, the same screen is displayed on the Remote Operation Viewer screen and the Control Panel during the work, which carries the following risks.

- The screen being operated can be seen by the user.
- During remote operation, the user may perform an operation on the Control Panel and an unexpected processing may be executed.



To solve these security problems, a function has been added to display a message on the Control Panel screen when the machine is being operated remotely using Remote Operation Viewer in order to prevent the user from performing unexpected operations. As shown in the figure below, the mask screen is displayed when this function is enabled.

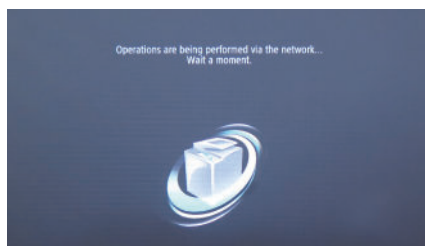


Examples of Screen Display

Functional Specification

The specifications of this function are shown below.

- When this function is enabled, a mask screen is displayed on the Control Panel. When the function is disabled, the original screen is displayed again.



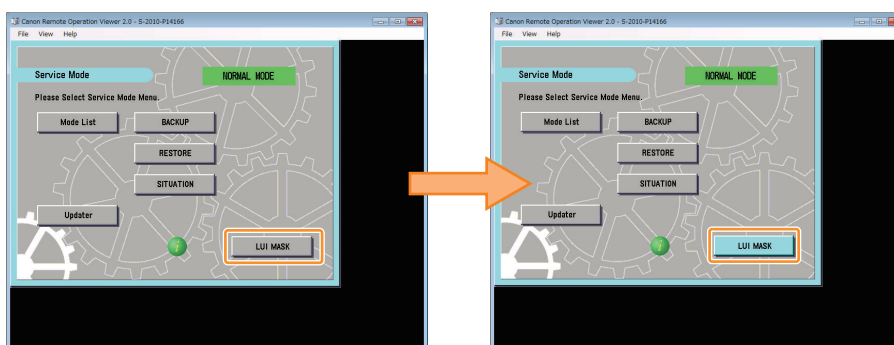
Example of the displayed mask screen

- This function is disabled when the following operations are performed.
 - Press [LUI MASK] on the service mode top screen.
 - Exit Remote Operation Viewer.
 - The remote access is disconnected due to a network failure, etc.
 - The machine is shut down (power down) or restarted.
- If this function is disabled while the service mode is being operated, the service mode is forcibly exited, and the previous screen is displayed. (However, the service mode is not forcibly terminated if the Updater screen has been accessed from service mode.)
- When this function is enabled, all operations (operations from the Touch Panel or hardware keys) other than screen brightness adjustment and operation on the Energy Saver key are disabled.

• Procedure for Enabling This Function

The procedure for enabling this function is shown below.

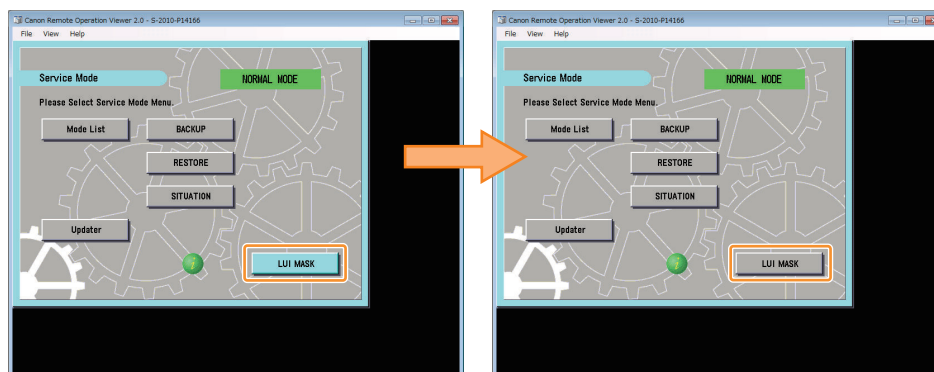
1. Use the Remote Operation Viewer to access the machine, and start service mode.
2. Press [LUI MASK], and check that the button is enabled (has turned light blue).



• Procedure for Disabling This Function

The procedure for disabling this function is shown below.

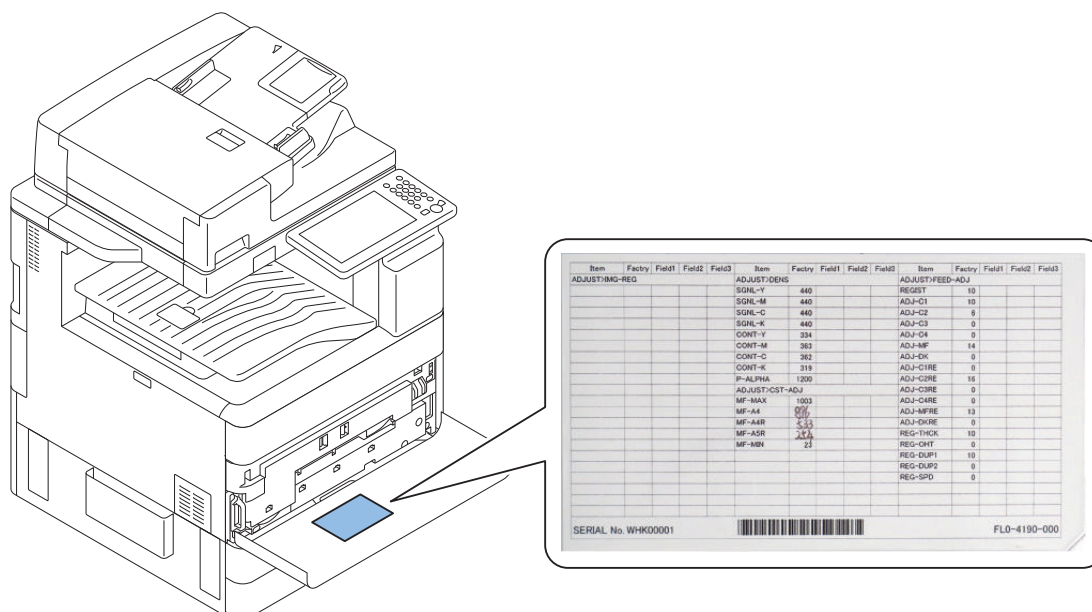
1. Perform one of the following operations.
 - Access the service mode, press [LUI MASK], and check that the button is disabled (has turned gray).



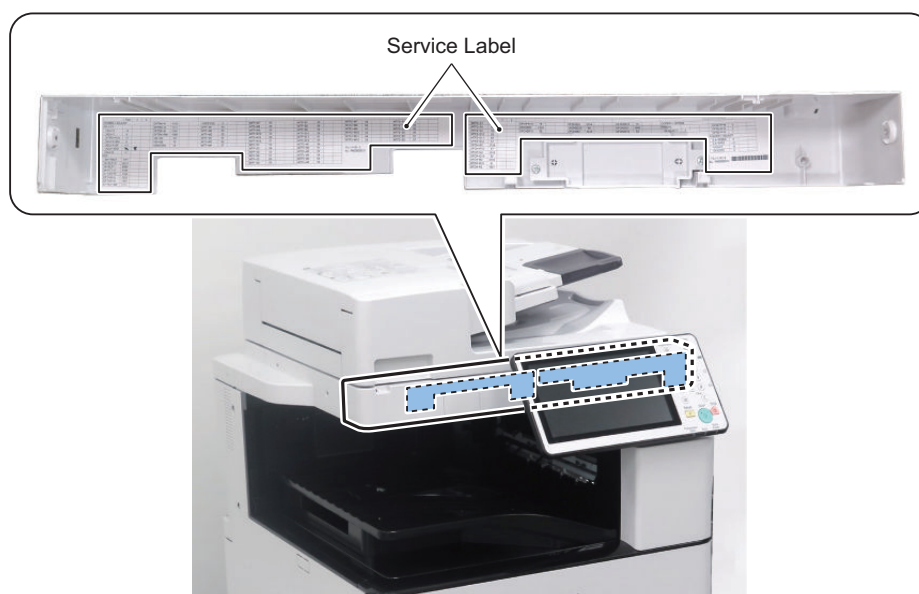
- Exit the Remote Operation Viewer.
- Disconnect the network (disconnect the network cable, disable the network function, etc.).
- Shut down or restart the machine.

Position to Affix the Service Label

Adjustment is made to every machine at the time of shipment and the adjustment value is written down in the service label. When replacing the DC Controller PCB or clearing RAM, the adjusted values of ADJUST and OPTION return to the default; therefore, be sure to adjust the value in the field, and in the case of changing the service mode value, be sure to write down the changed value in the service label. When the corresponding item is not found on the service label, write the value in blank field. The service label of this machine is affixed to the position shown below.



DCON Setting Items



RCON Setting Items

Output of Service Print Data

- The service print data such as P-PRINT can be output as a file.
- By executing the following service mode, data at the time can be saved in the Storage
Service Mode Level 1 > Copier > Function > MISC-P > RPT-FILE
- The saved data will be deleted from the Storage when it is exported to SST or a USB flash drive.
- When multiple service data such as P-PRINT and HIST-PRINT is saved in the host machine, it is collectively exported to SST or a USB flash drive.

NOTE:

- Service print data cannot be output when an error has occurred.
- When connecting a USB flash drive that runs on external power, start the machine with the power is turned ON in advance. A USB flash drive connected after the machine has been started cannot be recognized.

How to obtain the report data	Location
"Moving the file in service mode" on page 892	USB flash drive
"Moving the file in download mode" on page 893	USB flash drive
"How to Export Service Print File to a PC Using SST" on page 894	PC

■ Service Print and Data File Name Supported for File Output

Service Mode	Content
COPIER > Function > MISC-P > P-PRINT	Output of service mode setting values
COPIER > Function > MISC-P > HIST-PRT	Output of jam and error history
COPIER > Function > MISC-P > USER-PRT	Output of Settings/Registration menu setting values list
COPIER > Function > MISC-P > D-PRINT	Output of service mode (DISPLAY)
COPIER > Function > MISC-P > ENV-PRT	Output of the temperature and humidity inside the machine/surface temperature of the Fixing Roller as a log
COPIER > Function > MISC-P > PJH-P-1	Output of details on print job history (100 jobs)
COPIER > Function > MISC-P > PJH-P-2	Output of details on print job history (all jobs)
COPIER > Function > MISC-P > USBH-PRT	Output of USB device information report
COPIER > Function > MISC-P > TNRB-RPT	Output of the Toner Container ID report

NOTE:

When each service mode is individually executed, the report corresponding to the service mode as of the time of execution is output.

■ Moving the file in service mode

Preparation

The following item needs to be prepared to export the service print file to a USB flash drive.

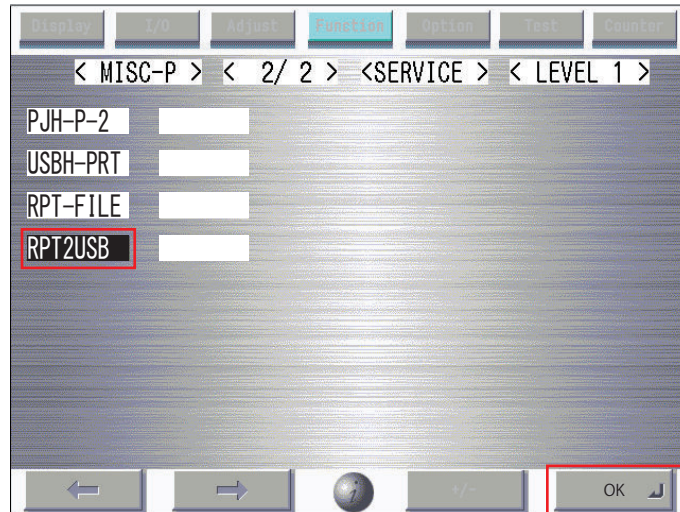
- USB flash drive (FAT32 format file system that is not locked with a password. To display the USB menu, the said model's firmware must already be registered.)

Overall flow

1. Selecting RPT-FILE
Select service mode > Copier > Function > MISC-P > RPT-FILE; and then press OK.
2. Generating report file
After the "ACTIVE" blinks for 3 to 4 minutes, generation of a report file is complete as "OK!" is displayed.



3. Connect the USB flash drive storage device to the USB port.
4. Select service mode > Copier > Function > MISC-P > RPT2USB; and then press OK.

**NOTE:**

- If the downloaded file is opened as plain text, the paragraphs are misaligned, which makes it difficult to read the data.
- When the file is dragged to WordPad, an image similar to the image output on paper may be displayed in some cases.

■ Moving the file in download mode

Preparation

The following item needs to be prepared to export the service print file to a USB flash drive.

- USB flash drive (FAT32 format file system that is not locked with a password. To display the USB menu, the said model's firmware must already be registered.)

Overall flow

1. Selecting RPT-FILE
Select service mode > Copier > Function > MISC-P > RPT-FILE; and then press OK.
2. Generating report file
After the "ACTIVE" blinks for 3 to 4 minutes, generation of a report file is complete as "OK!" is displayed.



3. Execute Download mode > [5]: Download File > [4]: ServicePrint Download.

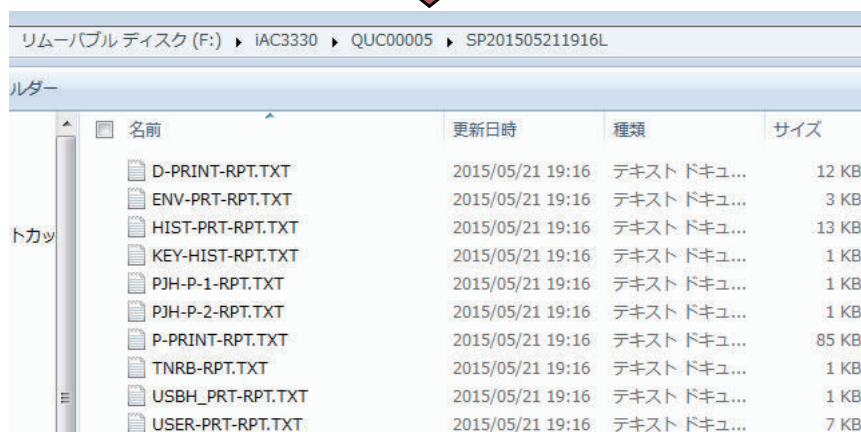
```

[[[[[[[ Download File Menu (USB) ]]]]]]]
-----
[1]: SUBLOG Download
[4]: ServicePrint Download
[C]: Return to Main Menu

[Reset]: Start shutdown sequence

/[4] has been selected. Execute?/
- (OK) : 0 / (CANCEL) : Any other keys -

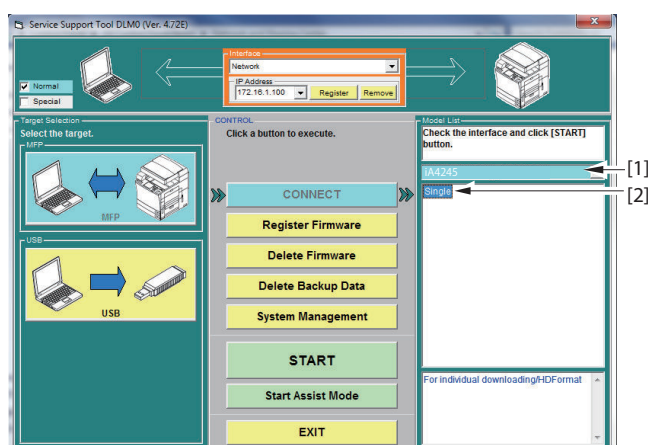
```



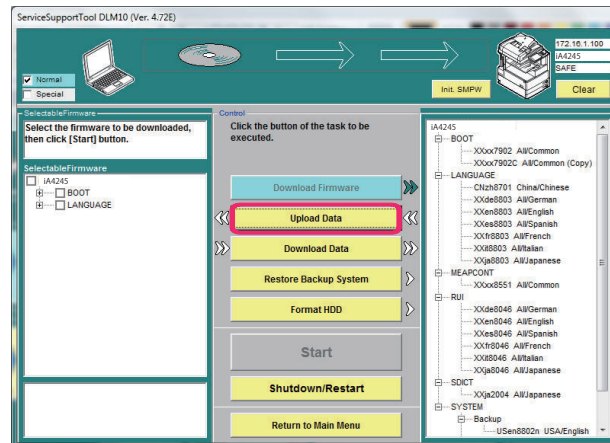
■ How to Export Service Print File to a PC Using SST

The procedure for exporting the service print file to a PC using SST will now be described. (SST described in the procedure is Ver 4.72.)

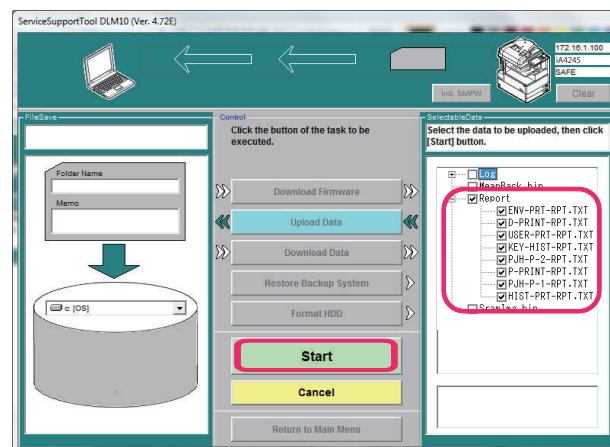
1. Start the SST.
2. Select the model [1] to be connected and the information file for separate download [2] ([Single]). Then, check the network settings and click the "Start" button.



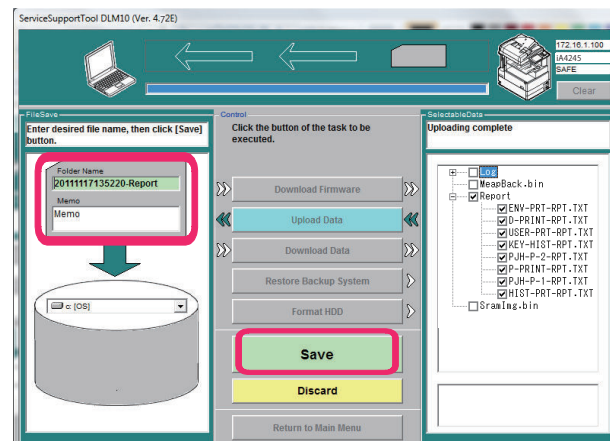
3. Click the [Upload Data] button.



4. Select [Report] and click the [Start] button.



5. Specify the folder name to be saved and enter comments if necessary. Then click the [Store] button.



6. Click the [OK] button.

COPIER (Service mode for printer)

DISPLAY (State display mode)

VERSION

COPIER (Service mode for printer) > DISPLAY (State display mode) > VERSION

DC-CON	1	Display of DCON firmware version
Detail		To display the firmware version of DC Controller PCB.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
R-CON	1	Display of RCON firmware version
Detail		To display the RCON firmware version in the Main Controller firmware.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
PANEL	1	Dspl of Control Panel CPU PCB ROM ver
Detail		To display the ROM version of Control Panel CPU PCB.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
ECO	1	Display of ECO-ID PCB firmware version
Detail		To display the firmware version of the ECO-ID PCB.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
SORTER	1	Display of FIN-CONT firmware version
Detail		To display the firmware version of Finisher Controller PCB.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
NIB	1	Display of network software version
Detail		To display the version of the network software.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
SDL-STCH	1	Dspl of Saddle Sttch Ctrollr PCB ROM ver
Detail		To display the ROM version of the Saddle Stitcher Controller PCB.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99

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OP-CON	1	Display of Option Controller PCB ROM ver
Detail		To display the ROM version of Option Controller PCB.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MN-CONT	1	Display of MNCON firmware version
Detail		To display the firmware version of Main Controller PCB.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
PUNCH	1	Display of Finisher Inner Punch Unit
Detail		To display the version of Finisher Inner Punch Unit.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-FR	1	Display of French language file version
Detail		To display the version of French language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-DE	1	Display of German language file version
Detail		To display the version of German language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-IT	1	Display of Italian language file version
Detail		To display the version of Italian language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-CS	2	Display of Czech language file version
Detail		To display the version of Czech language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-DA	2	Display of Danish language file version
Detail		To display the version of Danish language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-EL	2	Display of Greek language file version
Detail		To display the version of Greek language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99

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LANG-ES	1	Display of Spanish language file version
Detail		To display the version of Spanish language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-ET	2	Display of Estonian language file ver
Detail		To display the version of Estonian language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-FI	2	Display of Finnish language file version
Detail		To display the version of Finnish language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-HU	2	Display of Hungarian language file ver
Detail		To display the version of Hungarian language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-KO	2	Display of Korean language file version
Detail		To display the version of Korean language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-NL	2	Display of Dutch language file version
Detail		To display the version of Dutch language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-NO	2	Display of Norwegian language file ver
Detail		To display the version of Norwegian language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-PL	2	Display of Polish language file version
Detail		To display the version of Polish language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-PT	2	Display of Portuguese language file ver
Detail		To display the version of Portuguese language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99

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LANG-RU	2	Display of Russian language file version
Detail		To display the version of Russian language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-SL	2	Display of Slovenian language file ver
Detail		To display the version of Slovenian language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-SV	2	Display of Swedish language file version
Detail		To display the version of Swedish language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-TW	2	Dspl of Chinese language file ver: trad
Detail		To display the version of Chinese language file (traditional).
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-ZH	2	Dspl of Chinese language file ver: simpl
Detail		To display the version of Chinese language file (simplified).
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
ECO-ID	2	Display of ECO-ID code
Detail		To display the ECO-ID code.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		ASCII character string (12 digits)
GDI-UFR	1	Display of UFR II function version
Detail		To display the version of UFR II function.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-BU	2	Display of Bulgarian language file ver
Detail		To display the version of Bulgarian language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-CR	2	Display of Croatian language file ver
Detail		To display the version of Croatian language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99

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LANG-RM	2	Display of Romanian language file ver
Detail		To display the version of Romanian language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-SK	2	Display of Slovak language file version
Detail		To display the version of Slovak language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-TK	2	Display of Turkish language file version
Detail		To display the version of Turkish language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
BOOTROM	1	[Not used]
LANG-CA	2	Display of Catalan language file version
Detail		To display the version of Catalan language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-JA	2	Dspl of Japanese media information ver
Detail		To display the version of Japanese media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-EN	2	Dspl of English media information ver
Detail		To display the version of English media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-DE	2	Dspl of German media information version
Detail		To display the version of German media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-IT	2	Dspl of Italian media information ver
Detail		To display the version of Italian media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99

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MEDIA-FR	2	Dspl of French media information version
Detail		To display the version of French media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-ZH	2	Dspl of Chinese media info ver: simpl
Detail		To display the version of Chinese media information (simplified).
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-SK	2	Dspl of Slovak media information version
Detail		To display the version of Slovak media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-TK	2	Dspl of Turkish media information ver
Detail		To display the version of Turkish media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-CS	2	Dspl of Czech media information version
Detail		To display the version of Czech media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-EL	2	Dspl of Greek media information version
Detail		To display the version of Greek media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-ES	2	Dspl of Spanish media information ver
Detail		To display the version of Spanish media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-ET	2	Dspl of Estonian media information ver
Detail		To display the version of Estonian media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-FI	2	Dspl of Finnish media information ver
Detail		To display the version of Finnish media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99

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MEDIA-HU	2	Dspl of Hungarian media information ver
Detail		To display the version of Hungarian media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-KO	2	Dspl of Korean media information version
Detail		To display the version of Korean media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-NL	2	Dspl of Dutch media information version
Detail		To display the version of Dutch media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-NO	2	Dspl of Norwegian media information ver
Detail		To display the version of Norwegian media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-PL	2	Dspl of Polish media information version
Detail		To display the version of Polish media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-PT	2	Dspl of Portuguese media information ver
Detail		To display the version of Portuguese media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-RU	2	Dspl of Russian media information ver
Detail		To display the version of Russian media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-SL	2	Dspl of Slovenian media information ver
Detail		To display the version of Slovenian media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-SV	2	Dspl of Swedish media information ver
Detail		To display the version of Swedish media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99

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MEDIA-TW	2	Dspl of Chinese media info version:trad
Detail		To display the version of traditional Chinese media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-BU	2	Dspl of Bulgarian media information ver
Detail		To display the version of Bulgarian media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-CR	2	Dspl of Croatian media information ver
Detail		To display the version of Croatian media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-RM	2	Dspl of Romanian media information ver
Detail		To display the version of Romanian media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
MEDIA-CA	2	Dspl of Catalan media information ver
Detail		To display the version of Catalan media information.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
FAX1	1	Display of 1-line FAX PCB ROM version
Detail		To display the ROM version of 1-line FAX PCB. "NULL" is displayed if the PCB is not connected.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		ASCII character string (12 digits)
FAX2/3/4	1	Dspl of 2/3/4-line FAX PCB ROM version
Detail		To display the ROM version of 2/3/4-line FAX PCB. Nothing is displayed if the PCB is not connected.
Use Case		When checking the version
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		ASCII character string (12 digits)
IOCS	1	Display of IOCS version
Detail		To display the IOCS version.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99

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S-LNG-JP	1	Dspl of service mode Japanese file ver
Detail		To display the version of Japanese language file in service mode.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
S-LNG-EN	1	Dspl of service mode English file ver
Detail		To display the version of English language file in service mode.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
S-LNG-FR	1	Dspl of service mode French file version
Detail		To display the version of French language file in service mode.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
S-LNG-IT	1	Dspl of service mode Italian file ver
Detail		To display the version of Italian language file in service mode.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
S-LNG-GR	1	Dspl of service mode German file version
Detail		To display the version of German language file in service mode.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
S-LNG-SP	1	Dspl of service mode Spanish file ver
Detail		To display the version of Spanish language file in service mode.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
TSP-JLK	1	Dspl Image Data Analyzer Board version
Detail		To display the version of Image Data Analyzer Board.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
BCT	1	Display of self diagnosis tool version
Detail		To display the version of self diagnosis tool.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
LANG-TH	2	Display of Thai language file ver
Detail		To display the version of Thai language file.
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99

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LANG-VN	2	Dspl of Vietnamese language file version
Detail	To display the version of Vietnamese language file.	
Use Case	When upgrading the firmware	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	00.01 to 99.99	
IMLUT	1	Dspl image processing coefficient file
Detail	To display the version of image processing coefficient.	
Use Case	When upgrading the firmware	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	00.00 to 99.99	
LANG-AR	2	Dspl of Arabic language file ver
Detail	To display the version of Arabic language file.	
Use Case	When upgrading the firmware	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	00.01 to 99.99	
LANG-MS	2	Dspl of Malay language file ver
Detail	To display the version of Malay language file.	
Use Case	When upgrading the firmware	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	00.01 to 99.99	
LANG-HI	2	Dspl of Hindi language file ver
Detail	To display the version of Hindi language file.	
Use Case	When upgrading the firmware	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	00.01 to 99.99	
LANG-EU	2	Dspl of Euskera language file ver
Detail	To display the version of Euskera language file.	
Use Case	When upgrading the firmware	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	00.01 to 99.99	
RPTL-CS	2	Dspl RUI Portal Czech file version
Detail	To display the version of Czech language file for "Remote UI: Portal".	
Use Case	When upgrading the firmware	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	00.01 to 99.99	
RPTL-DA	2	Dspl RUI Portal Danish file version
Detail	To display the version of Danish language file for "Remote UI: Portal".	
Use Case	When upgrading the firmware	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	00.01 to 99.99	
RPTL-EL	2	Dspl RUI Portal Greek file version
Detail	To display the version of Greek language file for "Remote UI: Portal".	
Use Case	When upgrading the firmware	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	00.01 to 99.99	

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RPTL-ET	2	Dspl RUI Portal Estonian file version
Detail		To display the version of Estonian language file for "Remote UI: Portal".
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
RPTL-FI	2	Dspl RUI Portal Finnish file version
Detail		To display the version of Finnish language file for "Remote UI: Portal".
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
RPTL-HU	2	Dspl RUI Portal Hungarian file version
Detail		To display the version of Hungarian language file for "Remote UI: Portal".
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
RPTL-NL	2	Dspl RUI Portal Dutch file version
Detail		To display the version of Dutch language file for "Remote UI: Portal".
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
RPTL-NO	2	Dspl RUI Portal Norwegian file version
Detail		To display the version of Norwegian language file for "Remote UI: Portal".
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
RPTL-PL	2	Dspl RUI Portal Polish file version
Detail		To display the version of Polish language file for "Remote UI: Portal".
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
RPTL-PT	2	Dspl RUI Portal Portuguese file version
Detail		To display the version of Portuguese language file for "Remote UI: Portal".
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
RPTL-RU	2	Dspl RUI Portal Russian file version
Detail		To display the version of Russian language file for "Remote UI: Portal".
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
RPTL-SL	2	Dspl RUI Portal Slovenian file version
Detail		To display the version of Slovenian language file for "Remote UI: Portal".
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99

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RPTL-SV	2	Dspl RUI Portal Swedish file version
Detail		To display the version of Swedish language file for "Remote UI: Portal".
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
RPTL-ID	2	Dspl RUI Portal Indonesian file version
Detail		To display the version of Indonesian language file for "Remote UI: Portal".
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
RPTL-BU	2	Dspl RUI Portal Bulgarian file version
Detail		To display the version of Bulgarian language file for "Remote UI: Portal".
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
RPTL-CR	2	Dspl RUI Portal Croatian file version
Detail		To display the version of Croatian language file for "Remote UI: Portal".
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
RPTL-RM	2	Dspl RUI Portal Romanian file version
Detail		To display the version of Romanian language file for "Remote UI: Portal".
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
RPTL-SK	2	Dspl RUI Portal Slovak file version
Detail		To display the version of Slovak language file for "Remote UI: Portal".
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
RPTL-TK	2	Dspl RUI Portal Turkish file version
Detail		To display the version of Turkish language file for "Remote UI: Portal".
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
RPTL-CA	2	Dspl RUI Portal Catalan file version
Detail		To display the version of Catalan language file for "Remote UI: Portal".
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99
RPTL-TH	2	Dspl RUI Portal Thai file version
Detail		To display the version of Thai language file for "Remote UI: Portal".
Use Case		When upgrading the firmware
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		00.01 to 99.99

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RPTL-VN	2	Dspl RUI Portal Vietnamese file version
Detail	To display the version of Vietnamese language file for "Remote UI: Portal".	
Use Case	When upgrading the firmware	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	00.01 to 99.99	
BF-PASS	1	Display of BF-CONT firmware version
Detail	To display the firmware version of Buffer Pass Unit Controller PCB.	
Use Case	When upgrading the firmware	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	00.01 to 99.99	
SORT-SLV	1	Dspl of FIN-CONT (Sub) firmware version
Detail	To display the firmware version of Finisher Controller PCB (Sub).	
Use Case	When upgrading the firmware	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	00.01 to 99.99	
CONT-PF	1	Display of Controller firmware version
Detail	To display the platform version of the controller.	
Use Case	When checking the platform version at upgrade/problem occurrence	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	00.01 to 99.99	
LANG-HE	2	Display of Hebrew language file version
Detail	To display the version of Hebrew language file.	
Use Case	When upgrading the firmware	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	00.01 to 99.99	
LANG-LT	2	Dspl of Lithuanian language file version
Detail	To display the version of Lithuanian language file.	
Use Case	When upgrading the firmware	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	00.01 to 99.99	
LANG-LV	2	Display of Latvian language file version
Detail	To display the version of Latvian language file.	
Use Case	When upgrading the firmware	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	00.01 to 99.99	
LANG-UK	2	Dspl of Ukrainian language file ver
Detail	To display the Ukrainian language file version	
Use Case	When the firmware is upgraded	
Adj/Set/Operate Method	None (display only)	
Display/Adj/Set Range	00.00 to 99.99	
LANG-MI	2	Dspl of Maori language file ver
Detail	To display the Maori language file version	
Use Case	When the firmware is upgraded	
Adj/Set/Operate Method	None (display only)	
Display/Adj/Set Range	00.00 to 99.99	

■ USER

COPIER (Service mode for printer) > DISPLAY (State display mode) > USER

SPDTYPE	1	Display of engine speed type
Detail		To display the engine speed type of this machine.
Use Case		When checking the engine speed type
Adj/Set/Operate Method		N/A (Display only)
ADFTYPE	1	Display of DADF type
Detail		To display the type of the DADF currently installed.
Use Case		When replacing the DADF
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 2 0: Reverse type, 1: 1-path type, 2: Not installed (Copyboard model)
Related Service Mode		COPIER> OPTION> CUSTOM> SCANTYPE
SER-NAME	1	Dspl firmware registration series name
Detail		Display firmware registration series name
Use Case		To check the folder name for firmware registration in USB flash drive
Adj/Set/Operate Method		N/A (Display only)

■ ACC-ST5

COPIER (Service mode for printer) > DISPLAY (State display mode) > ACC-ST5

FEEDER	1	Display of DADF connection state
Detail		To display the connecting state of DADF.
Use Case		When checking the connection between the machine and DADF
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 1 0: Not connected, 1: Connected
SORTER	1	Connect state of Finisher-related option
Detail		To display the connection state of Finisher-related options.
Use Case		When checking the connection of Finisher-related options
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		Left column (connection state of Finisher-related options): 1 to 5 1: Without Saddle 2: With Saddle 3 to 5: Not Used Right column (connection state of Finisher-belonged Puncher): 0 to 4 0: No hole, 1: 2-hole, 2: 2/3-hole, 3: 4-hole, 4: 4-hole (SW)
DECK	1	Dspl of Paper Deck connection state
Detail		To display the connecting state of the Paper Deck.
Use Case		When checking the connection between the machine and the Paper Decks
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 5 0: Not connected, 1: Connected, 2 to 4: Not used, 5: Multi-purpose Tray only

COPIER (Service mode for printer) > DISPLAY (State display mode) > ACC-ST5

CARD	1	Dspl of connection state of Card Reader
Detail	To display the connecting state of Card Reader.	
Use Case	When checking the connection between the machine and the Card Reader	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1 0: No card is inserted while the Card Reader is connected. (Copy is not available.) 1: Card Reader is not connected, or card is inserted while the Card Reader is connected. (Copy is available.)	
RAM	1	Display of MNCON PCB memory capacity
Detail	To display the memory capacity of the Main Controller PCB.	
Use Case	When checking the memory capacity of the machine	
Adj/Set/Operate Method	N/A (Display only)	
Unit	MB	
COINROBO	1	Dspl of Coin Manager connection state
Detail	To display the connecting state of the Coin Manager.	
Use Case	When checking the connection between the machine and the Coin Manager	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1 0: Not connected, 1: Connected	
NETWARE	1	Install state dspl of NetWare firmware
Detail	To display the installation state of the NetWare firmware.	
Use Case	When checking whether NetWare firmware is installed to the machine	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1 0: Not installed, 1: Installed	
HDD	1	Display of HDD model name
Detail	To display the model name of HDD.	
Use Case	When checking the model name of HDD used on the machine	
Adj/Set/Operate Method	N/A (Display only)	
IA-RAM	1	Display of MNCON PCB memory capacity
Detail	To display the memory capacity of the Main Controller PCB.	
Use Case	When checking the memory capacity of the Main Controller PCB	
Adj/Set/Operate Method	N/A (Display only)	
Unit	MB	

■ ANALOG

COPIER (Service mode for printer) > DISPLAY (State display mode) > ANALOG

TEMP	1	Display of outside temperature
Detail	To display the temperature outside the machine. This is measured by the Environment Sensor 2 that detects the outside air.	
Use Case	When checking the temperature outside the machine	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 50	
Unit	deg C	
Appropriate Target Value	20 - 27	

COPIER (Service mode for printer) > DISPLAY (State display mode) > ANALOG

HUM	1	Display of outside humidity
Detail		To display the humidity outside the machine. This is measured by the Environment Sensor 2 that detects the outside air.
Use Case		When checking the humidity outside the machine
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 100
Unit		%
Appropriate Target Value		30 - 70
ABS-HUM	1	Display of outside moisture content
Detail		To display the absolute moisture content outside the machine. This is measured by the Environment Sensor 2 that detects the outside air.
Use Case		When checking the moisture content outside the machine
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 100
Unit		g/kg
Appropriate Target Value		0 - 22
FIX-C	1	Dspl of Fixing Film center temperature
Detail		To display the center temperature of the Fixing Film detected by the Main Thermistor 2.
Use Case		When checking the temperature at the center of Fixing Film
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 300
Unit		deg C
FIX-E	1	Dspl of Fixing Heater center temperature
Detail		To display the center temperature of the Fixing Heater detected by the Main Thermistor 1.
Use Case		When checking the temperature at the center of Fixing Heater
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 300
Unit		deg C
FIX-E2	1	Dspl Fixing Heater front edge temperature
Detail		To display the front edge temperature of the Fixing Heater detected by the Sub Thermistor 1.
Use Case		When checking the edge temperature of the Fixing Heater
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 300
Unit		deg C
TEMP2	1	Display of inside temperature
Detail		To display the temperature inside the machine measured by Environment Sensor 1.
Use Case		When checking the temperature inside the machine
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 100
Unit		deg C
Appropriate Target Value		20 - 27

COPIER (Service mode for printer) > DISPLAY (State display mode) > ANALOG

HUM2	1	Display of inside humidity
Detail	To display the humidity inside the machine measured by Environment Sensor 1.	
Use Case	When checking the humidity inside the machine	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 100	
Unit	%	
Appropriate Target Value	30 - 70	
FIX-E3	1	Dspl Fixing Heater rear edge temperature
Detail	To display the rear edge temperature of the Fixing Heater detected by the Sub Thermistor 2.	
Use Case	When checking the edge temperature of the Fixing Heater	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 300	
Unit	deg C	
FIX-F	1	Dspl Fixing Film front edge temperature
Detail	To display the front edge temperature of the Fixing Film detected by the Sub Thermistor 3.	
Use Case	When checking the edge temperature of the Fixing Film	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 300	
Unit	deg C	
FIX-R	1	Dspl Fixing Film rear edge temperature
Detail	To display the rear edge temperature of the Fixing Film detected by the Sub Thermistor 4.	
Use Case	When checking the edge temperature of the Fixing Film	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 300	
Unit	deg C	

■ CST-STS

COPIER (Service mode for printer) > DISPLAY (State display mode) > CST-STS

WIDTH-MF	2	Dspl of Multi-Purpose Tray paper width
Detail	To display the width (mm) of paper set on the Multi-Purpose Tray.	
Use Case	When checking the width of paper on the Multi-Purpose Tray	
Adj/Set/Operate Method	N/A (Display only)	
Unit	mm	

■ HV-STS

COPIER (Service mode for printer) > DISPLAY (State display mode) > HV-STS

1ATVC-Y	2	Dspl of primary transfer current (Y)
Detail	<p>To display the current that flows to the Primary Transfer Roller (Y) by the primary transfer ATVC control.</p> <p>The decuple values of the detected value 1, detected value 2 and target value are displayed in that order from the left.</p> <p>When the left two values are out of the appropriate target value range (100 to 700), the appropriate control can be executed by clearing the log information (1TR-CLR).</p> <p>If they are still out of the appropriate target value range, it may indicate the end of the life of the Primary Transfer Roller or failure of the Primary Transfer/Bk Developing Charging High-Voltage PCB.</p>	
Use Case	When identifying the cause of image failure (including the life of the Primary Transfer Roller)	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 900	
Unit	uA	
Appropriate Target Value	100 - 700	
Related Service Mode	COPIER> FUNCTION> CLEAR> 1TR-CLR	
1ATVC-M	2	Dspl of primary transfer current (M)
Detail	<p>To display the current that flows to the Primary Transfer Roller (M) by the primary transfer ATVC control.</p> <p>The decuple values of the detected value 1, detected value 2 and target value are displayed in that order from the left.</p> <p>When the left two values are out of the appropriate target value range (100 to 700), the appropriate control can be executed by clearing the log information (1TR-CLR).</p> <p>If they are still out of the appropriate target value range, it may indicate the end of the life of the Primary Transfer Roller or failure of the Primary Transfer/Bk Developing Charging High-Voltage PCB.</p>	
Use Case	When identifying the cause of image failure (including the life of the Primary Transfer Roller)	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 900	
Unit	uA	
Appropriate Target Value	100 - 700	
Related Service Mode	COPIER> FUNCTION> CLEAR> 1TR-CLR	
1ATVC-C	2	Dspl of primary transfer current (C)
Detail	<p>To display the current that flows to the Primary Transfer Roller (C) by the primary transfer ATVC control.</p> <p>The decuple values of the detected value 1, detected value 2 and target value are displayed in that order from the left.</p> <p>When the left two values are out of the appropriate target value range (100 to 700), the appropriate control can be executed by clearing the log information (1TR-CLR).</p> <p>If they are still out of the appropriate target value range, it may indicate the end of the life of the Primary Transfer Roller or failure of the Primary Transfer/Bk Developing Charging High-Voltage PCB.</p>	
Use Case	When identifying the cause of image failure (including the life of the Primary Transfer Roller)	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 900	
Unit	uA	
Appropriate Target Value	100 - 700	
Related Service Mode	COPIER> FUNCTION> CLEAR> 1TR-CLR	

COPIER (Service mode for printer) > DISPLAY (State display mode) > HV-STS

1ATVC-K4	2	Dspl prmry trns current(Bk):full clr mod
Detail		To display the current that flows to the Primary Transfer Roller (Bk) by the primary transfer ATVC control in color mode. The decuple values of the detected value 1, detected value 2 and target value are displayed in that order from the left. When the left two values are out of the appropriate target value range (100 to 700), the appropriate control can be executed by clearing the log information (1TR-CLR). If they are still out of the appropriate target value range, it may indicate the end of the life of the Primary Transfer Roller or failure of the Primary Transfer/Bk Developing Charging High-Voltage PCB.
Use Case		When identifying the cause of image failure (including the life of the Primary Transfer Roller)
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 900
Unit		uA
Appropriate Target Value		100 - 700
Related Service Mode		COPIER> FUNCTION> CLEAR> 1TR-CLR
2ATVC	2	Dspl secondary transfer ATVC tgt current
Detail		To display the decuple values of the two target values of the current that flows to the Secondary Transfer Roller by the secondary transfer ATVC control. When the left two values are out of the appropriate target value range (110 to 800), it may indicate that the secondary transfer ATVC control is not executed properly. The rightmost column is not used (0 is displayed).
Use Case		When identifying the cause at the occurrence of an image failure
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 900
Unit		uA
Appropriate Target Value		110 - 800

■ CCD

COPIER (Service mode for printer) > DISPLAY (State display mode) > CCD

TARGET-B	2	Shading target value (B)
Detail		To display the shading target value of Blue. Continuous display of 0 (minimum) or 65535 (maximum) is considered a failure of the Reader Controller PCB. When the value is out of the target value range, image failure or E302 (shading error) may have occurred. Identify the cause according to the value.
Use Case		- When replacing the Reader Controller PCB - At scanned image failure
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 65535
Appropriate Target Value		512 - 2047
TARGET-G	2	Shading target value (G)
Detail		To display the shading target value of Green. Continuous display of 0 (minimum) or 65535 (maximum) is considered a failure of the Reader Controller PCB. When the value is out of the target value range, image failure or E302 (shading error) may have occurred. Identify the cause according to the value.
Use Case		- When replacing the Reader Controller PCB - At scanned image failure
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 65535
Appropriate Target Value		512 - 2047

COPIER (Service mode for printer) > DISPLAY (State display mode) > CCD

TARGET-R	2	Shading target value (R)
Detail	To display the shading target value of Red. Continuous display of 0 (minimum) or 65535 (maximum) is considered a failure of the Reader Controller PCB. When the value is out of the target value range, image failure or E302 (shading error) may have occurred. Identify the cause according to the value.	
Use Case	- When replacing the Reader Controller PCB - At scanned image failure	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	512 - 2047	
GAIN-OB	2	Gain level of Read Sensor odd bit(B):frt
Detail	To display the Blue gain level adjustment value in odd-numbered bit on the Reading Sensor of Scanner Unit (for front side). Continuous display of upper limit is considered a failure of the Scanner Unit/Reader Controller PCB. When the value is out of the target value range, image failure or E302 (shading error) may have occurred. Identify the cause according to the value.	
Use Case	- When replacing the Reader Controller PCB - At scanned image failure	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	
GAIN-OG	2	Gain level of Read Sensor odd bit(G):frt
Detail	To display the Green gain level adjustment value in odd-numbered bit on the Reading Sensor of Scanner Unit (for front side). Continuous display of upper limit is considered a failure of the Scanner Unit/Reader Controller PCB. When the value is out of the target value range, image failure or E302 (shading error) may have occurred. Identify the cause according to the value.	
Use Case	- When replacing the Reader Controller PCB - At scanned image failure	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	
GAIN-OR	2	Gain level of Read Sensor odd bit(R):frt
Detail	To display the Red gain level adjustment value in odd-numbered bit on the Reading Sensor of Scanner Unit (for front side). Continuous display of upper limit is considered a failure of the Scanner Unit/Reader Controller PCB. When the value is out of the target value range, image failure or E302 (shading error) may have occurred. Identify the cause according to the value.	
Use Case	- When replacing the Reader Controller PCB - At scanned image failure	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	

COPIER (Service mode for printer) > DISPLAY (State display mode) > CCD

GAIN-EB	2	Gain lvl of Read Sensor even bit(B):frt
Detail	To display the Blue gain level adjustment value in even-numbered bit on the Reading Sensor of Scanner Unit (for front side). Continuous display of upper limit is considered a failure of the Scanner Unit/Reader Controller PCB. When the value is out of the target value range, image failure or E302 (shading error) may have occurred. Identify the cause according to the value.	
Use Case	- When replacing the Reader Controller PCB - At scanned image failure	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	
GAIN-EG	2	Gain lvl of Read Sensor even bit(G):frt
Detail	To display the Green gain level adjustment value in even-numbered bit on the Reading Sensor of Scanner Unit (for front side). Continuous display of upper limit is considered a failure of the Scanner Unit/Reader Controller PCB. When the value is out of the target value range, image failure or E302 (shading error) may have occurred. Identify the cause according to the value.	
Use Case	- When replacing the Reader Controller PCB - At scanned image failure	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	
GAIN-ER	2	Gain lvl of Read Sensor even bit(R):frt
Detail	To display the Red gain level adjustment value in even-numbered bit on the Reading Sensor of Scanner Unit (for front side). Continuous display of upper limit is considered a failure of the Scanner Unit/Reader Controller PCB. When the value is out of the target value range, image failure or E302 (shading error) may have occurred. Identify the cause according to the value.	
Use Case	- When replacing the Reader Controller PCB - At scanned image failure	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	
LAMP-BW	2	Dspl LED light intnsty adj VL:B&W, front
Detail	To display the LED light intensity adjustment value of Scanner Unit (for front side) in B&W scanning mode.	
Use Case	When an image failure occurs at front side reading in black mode	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	55 to 275	
Appropriate Target Value	100 - 275	
Supplement/Memo	LED cannot be replaced individually. Replace the Scanner Unit.	

COPIER (Service mode for printer) > DISPLAY (State display mode) > CCD

LAMP-CL	2	Dspl LED light intnsty adj VL:clr, front
Detail	To display the LED light intensity adjustment value of Scanner Unit (for front side) in color scanning mode.	
Use Case	When an image failure occurs at front side reading in color mode	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	55 to 275	
Appropriate Target Value	100 - 275	
Supplement/Memo	LED cannot be replaced individually. Replace the Scanner Unit.	
LAMP2-BW	2	Dspl LED light intnsty adj VL: B&W, back
Detail	To display the LED light intensity adjustment value of Scanner Unit (for back side) in B&W scanning mode.	
Use Case	When an image failure occurs at back side reading in black mode	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	55 to 275	
Appropriate Target Value	100 - 275	
Supplement/Memo	LED cannot be replaced individually. Replace the Scanner Unit.	
LAMP2-CL	2	Dspl LED light intnsty adj VL: clr, back
Detail	To display the LED light intensity adjustment value of Scanner Unit (for back side) in color scanning mode.	
Use Case	When an image failure occurs at back side reading in color mode	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	55 to 275	
Appropriate Target Value	100 - 275	
Supplement/Memo	LED cannot be replaced individually. Replace the Scanner Unit.	
OFST-BW	2	Dspl Read Sensor offset value:B&W, front
Detail	To display the offset value of the Reading Sensor of Scanner Unit (for front side) in B&W scanning mode.	
Use Case	When an image failure occurs at front side reading in black mode	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 116	
OFST-CL	2	Dspl Read Sensor offset value:clr, front
Detail	To display the offset value of the Reading Sensor of Scanner Unit (for front side) in color scanning mode.	
Use Case	When an image failure occurs at front side reading in color mode	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 116	
OFST2-BW	2	Dspl Read Sensor offset value: B&W, back
Detail	To display the offset value of the Reading Sensor of Scanner Unit (for back side) in B&W scanning mode.	
Use Case	When an image failure occurs at back side reading in black mode	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 116	

COPIER (Service mode for printer) > DISPLAY (State display mode) > CCD

GAIN-BW1	2	Read Sensor gain level adj VL1: B&W, frt
Detail	To display the Reading Sensor B&W gain level adjustment value 1 of Scanner Unit (for front side).	
Use Case	When an image failure occurs at front side reading in black mode	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	
GAIN-BW2	2	Read Sensor gain level adj VL2: B&W, frt
Detail	To display the Reading Sensor B&W gain level adjustment value 2 of Scanner Unit (for front side).	
Use Case	When an image failure occurs at front side reading in black mode	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	
GAIN-BW3	2	Read Sensor gain level adj VL3: B&W, frt
Detail	To display the Reading Sensor B&W gain level adjustment value 3 of Scanner Unit (for front side).	
Use Case	When an image failure occurs at front side reading in black mode	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	
GAIN-BW4	2	Read Sensor gain level adj VL4: B&W, frt
Detail	To display the Reading Sensor B&W gain level adjustment value 4 of Scanner Unit (for front side).	
Use Case	When an image failure occurs at front side reading in black mode	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	
GAIN2BW1	2	Read Sensor gain level adj VL1:B&W, back
Detail	To display the Reading Sensor B&W gain level adjustment value 1 of Scanner Unit (for back side).	
Use Case	When an image failure occurs at back side reading in black mode	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	
GAIN2BW2	2	Read Sensor gain level adj VL2:B&W, back
Detail	To display the Reading Sensor B&W gain level adjustment value 2 of Scanner Unit (for back side).	
Use Case	When an image failure occurs at back side reading in black mode	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	
GAIN2BW3	2	Read Sensor gain level adj VL3:B&W, back
Detail	To display the Reading Sensor B&W gain level adjustment value 3 of Scanner Unit (for back side).	
Use Case	When an image failure occurs at back side reading in black mode	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	

COPIER (Service mode for printer) > DISPLAY (State display mode) > CCD

GAIN2BW4	2	Read Sensor gain level adj VL4:B&W, back
Detail	To display the Reading Sensor B&W gain level adjustment value 4 of Scanner Unit (for back side).	
Use Case	When an image failure occurs at back side reading in black mode	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	
GAIN2-OR	2	Gain lvl of Read Sensor odd bit(R):back
Detail	To display the Red gain level adjustment value in odd-numbered bit on the Reading Sensor of Scanner Unit (for back side). Continuous display of upper limit is considered a failure of the Scanner Unit/Reader Controller PCB.	
Use Case	- When replacing the Reader Controller PCB - At scanned image failure	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	
GAIN2-OG	2	Gain lvl of Read Sensor odd bit(G):back
Detail	To display the Green gain level adjustment value in odd-numbered bit on the Reading Sensor of Scanner Unit (for back side). Continuous display of upper limit is considered a failure of the Scanner Unit/Reader Controller PCB.	
Use Case	- When replacing the Reader Controller PCB - At scanned image failure	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	
GAIN2-OB	2	Gain lvl of Read Sensor odd bit(B):back
Detail	To display the Blue gain level adjustment value in odd-numbered bit on the Reading Sensor of Scanner Unit (for back side). Continuous display of upper limit is considered a failure of the Scanner Unit/Reader Controller PCB.	
Use Case	- When replacing the Reader Controller PCB - At scanned image failure	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	
GAIN2-ER	2	Gain lvl of Read Sensor even bit(R):back
Detail	To display the Red gain level adjustment value in even-numbered bit on the Reading Sensor of Scanner Unit (for back side). Continuous display of upper limit is considered a failure of the Scanner Unit/Reader Controller PCB.	
Use Case	- When replacing the Reader Controller PCB - At scanned image failure	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	

COPIER (Service mode for printer) > DISPLAY (State display mode) > CCD

GAIN2-EG	2	Gain lvl of Read Sensor even bit(G):back
Detail	To display the Green gain level adjustment value in even-numbered bit on the Reading Sensor of Scanner Unit (for back side). Continuous display of upper limit is considered a failure of the Scanner Unit/Reader Controller PCB.	
Use Case	- When replacing the Reader Controller PCB - At scanned image failure	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	
GAIN2-EB	2	Gain lvl of Read Sensor even bit(B):back
Detail	To display the Blue gain level adjustment value in even-numbered bit on the Reading Sensor of Scanner Unit (for back side). Continuous display of upper limit is considered a failure of the Scanner Unit/Reader Controller PCB.	
Use Case	- When replacing the Reader Controller PCB - At scanned image failure	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 65535	
Appropriate Target Value	0 - 143	
OFST2-CL	2	Dspl Read Sensor offset value:clr, back
Detail	To display the offset value of the Reading Sensor of Scanner Unit (for back side) in color scanning mode.	
Use Case	When an image failure occurs at back side reading in color mode	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 116	

■ DPOT

COPIER (Service mode for printer) > DISPLAY (State display mode) > DPOT

2TR-PPR	2	For R&D
2TR-BASE	2	For R&D
1TR-DC-Y	2	For R&D
1TR-DC-M	2	For R&D
1TR-DC-C	2	For R&D
1TR-DC-K	2	For R&D
CHG-AC-Y	2	For R&D
CHG-AC-M	2	For R&D
CHG-AC-C	2	For R&D
CHG-AC-K	2	For R&D
LPWR-Y	2	For R&D
LPWR-M	2	For R&D
LPWR-C	2	For R&D
LPWR-K	2	For R&D
PVCONT-Y	2	For R&D
PVCONT-M	2	For R&D
PVCONT-C	2	For R&D

COPIER (Service mode for printer) > DISPLAY (State display mode) > DPOT

PVCONT-K 2 For R&D**■ DENS**

COPIER (Service mode for printer) > DISPLAY (State display mode) > DENS

DENS-Y 1 Dspl of Y developer density change ratio

Detail	To display difference between Y-color developer density and the target value in % (percentage). Intolerable difference will trigger E020. This may be caused by deterioration of the developer, failure/open circuit of the ATR Sensor or error in toner supply system. The value is updated upon print operation after power-on.
Use Case	- When the density varies dramatically - When the density is unstable even after gradation correction
Adj/Set/Operate Method	N/A (Display only)
Display/Adj/Set Range	-7 to 7
Unit	%
Appropriate Target Value	-4.5 - 4.5
Related Service Mode	COPIER> DISPLAY> DENS> SGNL-Y

DENS-M 1 Dspl of M developer density change ratio

Detail	To display difference between M-color developer density and the target value in % (percentage). Intolerable difference will trigger E020. This may be caused by deterioration of the developer, failure/open circuit of the ATR Sensor or error in toner supply system. The value is updated upon print operation after power-on.
Use Case	- When the density varies dramatically - When the density is unstable even after gradation correction
Adj/Set/Operate Method	N/A (Display only)
Display/Adj/Set Range	-7 to 7
Unit	%
Appropriate Target Value	-4.5 - 4.5
Related Service Mode	COPIER> DISPLAY> DENS> SGNL-M

DENS-C 1 Dspl of C developer density change ratio

Detail	To display difference between C-color developer density and the target value in % (percentage). Intolerable difference will trigger E020. This may be caused by deterioration of the developer, failure/open circuit of the ATR Sensor or error in toner supply system. The value is updated upon print operation after power-on.
Use Case	- When the density varies dramatically - When the density is unstable even after gradation correction
Adj/Set/Operate Method	N/A (Display only)
Display/Adj/Set Range	-7 to 7
Unit	%
Appropriate Target Value	-4.5 - 4.5
Related Service Mode	COPIER> DISPLAY> DENS> SGNL-C

COPIER (Service mode for printer) > DISPLAY (State display mode) > DENS

DENS-K	1	Dspl Bk developer density change ratio
Detail	To display difference between Bk-color developer density and the target value in % (percentage). Intolerable difference will trigger E020. This may be caused by deterioration of the developer, failure/open circuit of the ATR Sensor or error in toner supply system. The value is updated upon print operation after power-on.	
Use Case	- When the density varies dramatically - When the density is unstable even after gradation correction	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	-7 to 7	
Unit	%	
Appropriate Target Value	-4.5 - 4.5	
Related Service Mode	COPIER> DISPLAY> DENS> SGNL-K	
DENS-S-Y	2	Display of Y-color patch image density
Detail	To display the Y-color patch image density detected by the Patch Sensor.	
Use Case	When analyzing the cause of a problem	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	300 - 700	
DENS-S-M	2	Display of M-color patch image density
Detail	To display the M-color patch image density detected by the Patch Sensor.	
Use Case	When analyzing the cause of a problem	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	300 - 700	
DENS-S-C	2	Display of C-color patch image density
Detail	To display the C-color patch image density detected by the Patch Sensor.	
Use Case	When analyzing the cause of a problem	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	300 - 700	
DENS-S-K	2	Display of Bk-color patch image density
Detail	To display the Bk-color patch image density detected by the Patch Sensor.	
Use Case	When analyzing the cause of a problem	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	300 - 700	
D-Y-TRGT	2	Dspl Y-clr patch target dens: ATR ctrl
Detail	To display the target density for Y patch image created by ATR control.	
Use Case	When analyzing the cause of a problem	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	300 - 700	

COPIER (Service mode for printer) > DISPLAY (State display mode) > DENS

D-M-TRGT	2	Dspl M-clr patch target dens: ATR ctrl
Detail	To display the target density for M patch image created by ATR control.	
Use Case	When analyzing the cause of a problem	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	300 - 700	
D-C-TRGT	2	Dspl C-clr patch target dens: ATR ctrl
Detail	To display the target density for C patch image created by ATR control.	
Use Case	When analyzing the cause of a problem	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	300 - 700	
SGNL-Y	1	Display of Y-color developer density
Detail	To display the measured value of Y-color developer density. The density is measured with the ATR Sensor for each job. The value is updated upon print operation after power-on.	
Use Case	When analyzing the cause of a problem	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 255	
Appropriate Target Value	20 - 230	
Related Service Mode	COPIER> DISPLAY> DENS> DENS-Y	
SGNL-M	1	Display of M-color developer density
Detail	To display the measured value of M-color developer density. The density is measured with the ATR Sensor for each job. The value is updated upon print operation after power-on.	
Use Case	When analyzing the cause of a problem	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 255	
Appropriate Target Value	20 - 230	
Related Service Mode	COPIER> DISPLAY> DENS> DENS-M	
SGNL-C	1	Display of C-color developer density
Detail	To display the measured value of C-color developer density. The density is measured with the ATR Sensor for each job. The value is updated upon print operation after power-on.	
Use Case	When analyzing the cause of a problem	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 255	
Appropriate Target Value	20 - 230	
Related Service Mode	COPIER> DISPLAY> DENS> DENS-C	
SGNL-K	1	Display of Bk-color developer density
Detail	To display the measured value of Bk-color developer density. The density is measured with the ATR Sensor for each job. The value is updated upon print operation after power-on.	
Use Case	When analyzing the cause of a problem	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 255	
Appropriate Target Value	20 - 230	
Related Service Mode	COPIER> DISPLAY> DENS> DENS-K	

COPIER (Service mode for printer) > DISPLAY (State display mode) > DENS

DEV-DC-Y	2	Display of developing DC bias (Y)
Detail	To display the Y developing DC bias Vdc applied at the latest.	
Use Case	- When image failure occurs due to carrier adherence - When fogging occurs/is deteriorated	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	-800 to -200	
Unit	V	
DEV-DC-M	2	Display of developing DC bias (M)
Detail	To display the M developing DC bias Vdc applied at the latest.	
Use Case	- When image failure occurs due to carrier adherence - When fogging occurs/is deteriorated	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	-800 to -200	
Unit	V	
DEV-DC-C	2	Display of developing DC bias (C)
Detail	To display the C developing DC bias Vdc applied at the latest.	
Use Case	- When image failure occurs due to carrier adherence - When fogging occurs/is deteriorated	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	-800 to -200	
Unit	V	
DEV-DC-K	2	Display of developing DC bias (Bk)
Detail	To display the Bk developing DC bias Vdc applied at the latest.	
Use Case	- When image failure occurs due to carrier adherence - When fogging occurs/is deteriorated	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	-800 to -200	
Unit	V	
CHG-DC-Y	2	Dspl Y-color primary charge DC voltage
Detail	To display the latest primary charging DC voltage of Y-color.	
Use Case	When decrease in density/fogging occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	-1500 to 0	
Unit	V	
Appropriate Target Value	-900 - 400	
CHG-DC-M	2	Dspl M-color primary charge DC voltage
Detail	To display the latest primary charging DC voltage of M-color.	
Use Case	When decrease in density/fogging occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	-1500 to 0	
Unit	V	
Appropriate Target Value	-900 - 400	

COPIER (Service mode for printer) > DISPLAY (State display mode) > DENS

CHG-DC-C	2	Dspl C-color primary charge DC voltage
Detail	To display the latest primary charging DC voltage of C-color.	
Use Case	When decrease in density/fogging occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	-1500 to 0	
Unit	V	
Appropriate Target Value	-900 - 400	
CHG-DC-K	2	Dspl Bk-color primary charge DC voltage
Detail	To display the latest primary charging DC voltage of Bk-color.	
Use Case	When decrease in density/fogging occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	-1500 to 0	
Unit	V	
Appropriate Target Value	-900 - 400	
D-K-TRGT	2	Dspl Bk-clr patch target dens: ATR ctrl
Detail	To display the target density for Bk patch image created by ATR control.	
Use Case	When analyzing the cause of a problem	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	300 - 700	
D-CRNT-P	2	For R&D
D-CRNT-S	2	For R&D
DENS-Y-H	2	Dspl of Y-clr TD ratio log: ATR control
Detail	To display the latest 8 Y-toner density log data (TD ratio) detected by the ATR Sensor at ATR control. Sharp change in values may indicate open circuit/failure of ATR Sensor, whereas gradual change in values may indicate failure in toner supply system.	
Use Case	When checking toner density in the Developing Assembly at low density or fogging deterioration	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 255	
Appropriate Target Value	20 - 230	
DENS-M-H	2	Dspl of M-clr TD ratio log: ATR control
Detail	To display the latest 8 M-toner density log data (TD ratio) detected by the ATR Sensor at ATR control. Sharp change in values may indicate open circuit/failure of ATR Sensor, whereas gradual change in values may indicate failure in toner supply system.	
Use Case	When checking toner density in the Developing Assembly at low density or fogging deterioration	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 255	
Appropriate Target Value	20 - 230	

COPIER (Service mode for printer) > DISPLAY (State display mode) > DENS

DENS-C-H	2	Dspl of C-clr TD ratio log: ATR control
Detail	To display the latest 8 C-toner density log data (TD ratio) detected by the ATR Sensor at ATR control. Sharp change in values may indicate open circuit/failure of ATR Sensor, whereas gradual change in values may indicate failure in toner supply system.	
Use Case	When checking toner density in the Developing Assembly at low density or fogging deterioration	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 255	
Appropriate Target Value	20 - 230	
DS-S-Y-H	2	Dspl of Y-color patch image density log
Detail	To display the latest 8 Y-patch image density log data. It is the reference for judging the cause at E020 occurrence, etc. Sharp change in values may indicate the failure in Patch Sensor, Shutter or laser, whereas gradual change may indicate failure in toner supply system. This is particularly caused by Patch Sensor.	
Use Case	When analyzing the cause of E020	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	200 - 900	
DS-S-M-H	2	Dspl of M-color patch image density log
Detail	To display the latest 8 M-patch image density log data. It is the reference for judging the cause at E020 occurrence, etc. Sharp change in values may indicate the failure in Patch Sensor, Shutter or laser, whereas gradual change may indicate failure in toner supply system. This is particularly caused by Patch Sensor.	
Use Case	When analyzing the cause of E020	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	200 - 900	
DS-S-C-H	2	Dspl of C-color patch image density log
Detail	To display the latest 8 C-patch image density log data. It is the reference for judging the cause at E020 occurrence, etc. Sharp change in values may indicate the failure in Patch Sensor, Shutter or laser, whereas gradual change may indicate failure in toner supply system. This is particularly caused by Patch Sensor.	
Use Case	When analyzing the cause of E020	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	200 - 900	
DS-S-K-H	2	Dspl of Bk-color patch image density log
Detail	To display the latest 8 Bk-patch image density log data. It is the reference for judging the cause at E020 occurrence, etc. Sharp change in values may indicate the failure in Patch Sensor, Shutter or laser, whereas gradual change may indicate failure in toner supply system. This is particularly caused by Patch Sensor.	
Use Case	When analyzing the cause of E020	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	200 - 900	

COPIER (Service mode for printer) > DISPLAY (State display mode) > DENS

P-LED-DA	2	Dspl Patch Sensor LED intensity: P-wave
Detail	To display the P-wave light intensity of the Patch Sensor LED. The soiled Sensor window or soiled ITB (ITB cleaning failure) is suspected if the background light intensity (P-wave) is too low even with sufficient LED light intensity.	
Use Case	When checking the Patch Sensor	
Adj/Set/Operate Method	N/A (Display only)	
SPL-LG-Y	2	Display of Y-color toner supply log
Detail	To display the latest 8 Y-toner supply log data. Each data represents the number of toner blocks supplied per paper.	
Use Case	When checking toner supply status at E020 occurrence, low density or fogging deterioration	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 20	
Appropriate Target Value	0 - 4	
SPL-LG-M	2	Display of M-color toner supply log
Detail	To display the latest 8 M-toner supply log data. Each data represents the number of toner blocks supplied per paper.	
Use Case	When checking toner supply status at E020 occurrence, low density or fogging deterioration	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 20	
Appropriate Target Value	0 - 4	
SPL-LG-C	2	Display of C-color toner supply log
Detail	To display the latest 8 C-toner supply log data. Each data represents the number of toner blocks supplied per paper.	
Use Case	When checking toner supply status at E020 occurrence, low density or fogging deterioration	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 20	
Appropriate Target Value	0 - 4	
DENS-K-H	2	Dspl of Bk-clr TD ratio log: ATR control
Detail	To display the latest 8 Bk-toner density log data (TD ratio) detected by the ATR Sensor at ATR control. Sharp change in values may indicate open circuit/failure of ATR Sensor, whereas gradual change in values may indicate failure in toner supply system.	
Use Case	When checking toner density in the Developing Assembly at low density or fogging deterioration	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 255	
Appropriate Target Value	20 - 230	
SPL-LG-K	2	Display of Bk-color toner supply log
Detail	To display the latest 8 Bk-toner supply log data. Each data represents the number of toner blocks supplied per paper.	
Use Case	When checking the toner supply status at low density or fogging deterioration	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 20	
Appropriate Target Value	0 - 5	

COPIER (Service mode for printer) > DISPLAY (State display mode) > DENS

P-LEDDAS	2	Dspl Patch Sensor LED intensity: S-wave
Detail	To display the S-wave light intensity of the Patch Sensor LED. The soiled sensor window or soiled ITB (ITB cleaning failure) is suspected if the sensor output (S-wave) is too low although the LED light intensity is sufficient.	
Use Case	When checking the Patch Sensor	
Adj/Set/Operate Method	N/A (Display only)	

■ MISC

COPIER (Service mode for printer) > DISPLAY (State display mode) > MISC

ENV-TR	1	Dspl of environment: sec trns ATVC ctrl
Detail	To display the environment (moisture content) at the time of the latest secondary transfer ATVC control execution.	
Use Case	When adjusting the paper allotted voltage in secondary transfer ATVC control	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	1 to 3 1: Low humidity, 2: Normal humidity, 3: High humidity	

ITB-POS	1	Dspl ITB reference position: black mode
Detail	To display the reference position of the ITB displacement correction control (black mode). The initial adjustment result is displayed right after execution of ITB-INIT, but it is changed as the machine operates. As the value is closer to 0, the ITB is likely to be a state of equilibrium.	
Use Case	- At installation - At replacement of ITB-related parts	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	-600 to 600	
Unit	pulse	
Appropriate Target Value	-350 - 350	
Related Service Mode	COPIER> FUNCTION> MISC-P> ITB-INIT COPIER> DISPLAY> MISC> ITB-POS2	

ITB-POS2	1	Dspl ITB reference position: color mode
Detail	To display the reference position of the ITB displacement correction control (color mode). A value at initial adjustment by ITB-INIT is displayed. It will not be changed until next execution of ITB-INIT. As the value is closer to 0, the ITB is likely to be a state of equilibrium.	
Use Case	- At installation - At replacement of ITB-related parts	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	-600 to 600	
Unit	pulse	
Appropriate Target Value	-350 - 350	
Related Service Mode	COPIER> FUNCTION> MISC-P> ITB-INIT COPIER> DISPLAY> MISC> ITB-POS	

TNRB-IDY	1	Display of Y-color Toner Container ID
Detail	To display the ID of Y-color Toner Container that is installed to the machine	
Use Case	When checking whether the barcode ID on the Toner Container is read correctly	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	12-digit decimal number	

COPIER (Service mode for printer) > DISPLAY (State display mode) > MISC

TNRB-IDM	1	Display of M-color Toner Container ID
Detail	To display the ID of M-color Toner Container that is installed to the machine	
Use Case	When checking whether the barcode ID on the Toner Container is read correctly	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	12-digit decimal number	
TNRB-IDC	1	Display of C-color Toner Container ID
Detail	To display the ID of C-color Toner Container that is installed to the machine	
Use Case	When checking whether the barcode ID on the Toner Container is read correctly	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	12-digit decimal number	
TNRB-IDK	1	Display of Bk-color Toner Container ID
Detail	To display the ID of Bk-color Toner Container that is installed to the machine	
Use Case	When checking whether the barcode ID on the Toner Container is read correctly	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	12-digit decimal number	
FX-ID	2	Display of Fixing Unit ID
Detail	To display the ID of the Fixing Unit that is installed to the machine.	
Use Case	When checking the ID of the Fixing Unit	
Adj/Set/Operate Method	N/A (Display only)	
SD-INFO	2	For R&D
STC-REC	1	Check High Consumption Alarm Send Status
Detail	To express whether High Consumption Alarm is sent or not with 0 and 1.	
Use Case	- When checking whether High Consumption Alarm is sent or not	
Adj/Set/Operate Method	Display only	
Caution	The value returns to 0 only in the following cases: - When performing COPIER > FUNCTION > CLEAR > CNT-DCON - When performing "Initialize All Data/Settings" - When the DC Controller is replaced	
Display/Adj/Set Range	0 to 1 0: Transmission disabled, 1: Transmission enabled 1st column: Toner (Y) 2nd column: Toner (M) 3rd column: Toner (C) 4th column: Toner (K) 5th column: Waste Toner Container 6th column: Fixing Web 7th to 8th column: Spare	
Default Value	0	

■ HT-C

COPIER (Service mode for printer) > DISPLAY (State display mode) > HT-C

TGT-A-Y	2	Multi tone scrnA Y-patch tgt VL: H-SPD
Detail	To display the Y-color patch target value of screen A in real-time multiple tone control at high speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-A-M	2	Multi tone scrnA M-patch tgt VL: H-SPD
Detail	To display the M-color patch target value of screen A in real-time multiple tone control at high speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-A-C	2	Multi tone scrnA C-patch tgt VL: H-SPD
Detail	To display the C-color patch target value of screen A in real-time multiple tone control at high speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-A-K	2	Multi tone scrnA C-patch tgt VL: H-SPD
Detail	To display the C-color patch target value of screen A in real-time multiple tone control at high speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	

COPIER (Service mode for printer) > DISPLAY (State display mode) > HT-C

TGT-B-Y	2	Multi tone scrnB Y-patch tgt VL: H-SPD
Detail	To display the Y-color patch target value of screen B in real-time multiple tone control at high speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-B-M	2	Multi tone scrnB M-patch tgt VL: H-SPD
Detail	To display the M-color patch target value of screen B in real-time multiple tone control at high speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-B-C	2	Multi tone scrnB C-patch tgt VL: H-SPD
Detail	To display the C-color patch target value of screen B in real-time multiple tone control at high speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-B-K	2	Multi tone scrnB Bk-patch tgt VL: H-SPD
Detail	To display the Bk-color patch target value of screen B in real-time multiple tone control at high speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	

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TGT-C-Y	2	Multi tone scrnC Y-patch tgt VL: H-SPD
Detail	To display the Y-color patch target value of screen C in real-time multiple tone control at high speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-C-M	2	Multi tone scrnC M-patch tgt VL: H-SPD
Detail	To display the M-color patch target value of screen C in real-time multiple tone control at high speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-C-C	2	Multi tone scrnC C-patch tgt VL: H-SPD
Detail	To display the C-color patch target value of screen C in real-time multiple tone control at high speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-C-K	2	Multi tone scrnC Bk-patch tgt VL: H-SPD
Detail	To display the Bk-color patch target value of screen C in real-time multiple tone control at high speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
SGNL-A-Y	2	For R&D
SGNL-A-M	2	For R&D
SGNL-A-C	2	For R&D
SGNL-A-K	2	For R&D
SGNL-B-Y	2	For R&D
SGNL-B-M	2	For R&D

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SGNL-B-C	2	For R&D
SGNL-B-K	2	For R&D
SGNL-C-Y	2	For R&D
SGNL-C-M	2	For R&D
SGNL-C-K	2	For R&D
SGNL-C-C	2	For R&D
TGT-A-Y2	2	Multi tone scrnA Y-patch tgt VL: M-SPD
Detail	To display the Y-color patch target value of screen A in real-time multiple tone control at middle speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-A-M2	2	Multi tone scrnA M-patch tgt VL: M-SPD
Detail	To display the M-color patch target value of screen A in real-time multiple tone control at middle speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-A-C2	2	Multi tone scrnA C-patch tgt VL: M-SPD
Detail	To display the C-color patch target value of screen A in real-time multiple tone control at middle speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-A-K2	2	Multi tone scrnA C-patch tgt VL: M-SPD
Detail	To display the C-color patch target value of screen A in real-time multiple tone control at middle speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	

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TGT-A-Y3	2	Multi tone scrnA Y-patch tgt VL: L-SPD
Detail	To display the Y-color patch target value of screen A in real-time multiple tone control at low speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-A-M3	2	Multi tone scrnA M-patch tgt VL: L-SPD
Detail	To display the M-color patch target value of screen A in real-time multiple tone control at low speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-A-C3	2	Multi tone scrnA C-patch tgt VL: L-SPD
Detail	To display the C-color patch target value of screen A in real-time multiple tone control at low speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-A-K3	2	Multi tone scrnA Bk-patch tgt VL: L-SPD
Detail	To display the Bk-color patch target value of screen A in real-time multiple tone control at low speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-B-Y3	2	Multi tone scrnB Y-patch tgt VL: L-SPD
Detail	To display the Y-color patch target value of screen B in real-time multiple tone control at low speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-B-M3	2	Multi tone scrnB M-patch tgt VL: L-SPD
Detail	To display the M-color patch target value of screen B in real-time multiple tone control at low speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	

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TGT-B-C3	2	Multi tone scrnB C-patch tgt VL: L-SPD
Detail	To display the C-color patch target value of screen B in real-time multiple tone control at low speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-B-K3	2	Multi tone scrnB Bk-patch tgt VL: L-SPD
Detail	To display the Bk-color patch target value of screen B in real-time multiple tone control at low speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-B-Y2	2	Multi tone scrnB Y-patch tgt VL: M-SPD
Detail	To display the Y-color patch target value of screen B in real-time multiple tone control at middle speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-B-M2	2	Multi tone scrnB M-patch tgt VL: M-SPD
Detail	To display the M-color patch target value of screen B in real-time multiple tone control at middle speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-B-C2	2	Multi tone scrnB C-patch tgt VL: M-SPD
Detail	To display the C-color patch target value of screen B in real-time multiple tone control at middle speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	

COPIER (Service mode for printer) > DISPLAY (State display mode) > HT-C

TGT-B-K2	2	Multi tone scrnB Bk-patch tgt VL: M-SPD
Detail	<p>To display the Bk-color patch target value of screen B in real-time multiple tone control at middle speed.</p> <p>Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target.</p> <p>When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.</p>	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-C-Y2	2	Multi tone scrnC Y-patch tgt VL: M-SPD
Detail	<p>To display the Y-color patch target value of screen C in real-time multiple tone control at middle speed.</p> <p>Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target.</p> <p>When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.</p>	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-C-M2	2	Multi tone scrnC M-patch tgt VL: M-SPD
Detail	<p>To display the M-color patch target value of screen C in real-time multiple tone control at middle speed.</p> <p>Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target.</p> <p>When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.</p>	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-C-C2	2	Multi tone scrnC C-patch tgt VL: M-SPD
Detail	<p>To display the C-color patch target value of screen C in real-time multiple tone control at middle speed.</p> <p>Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target.</p> <p>When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.</p>	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	

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TGT-C-K2	2	Multi tone scrnC Bk-patch tgt VL: M-SPD
Detail	To display the Bk-color patch target value of screen C in real-time multiple tone control at middle speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target. When hue variation occurs and the displayed value is not in the tolerable range, execute the auto gradation adjustment (reset the target value). Check the Patch Sensor if not corrected.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-C-Y3	2	Multi tone scrnC Y-patch tgt VL: L-SPD
Detail	To display the Y-color patch target value of screen C in real-time multiple tone control at low speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-C-M3	2	Multi tone scrnC M-patch tgt VL: L-SPD
Detail	To display the M-color patch target value of screen C in real-time multiple tone control at low speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-C-C3	2	Multi tone scrnC C-patch tgt VL: L-SPD
Detail	To display the C-color patch target value of screen C in real-time multiple tone control at low speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	
TGT-C-K3	2	Multi tone scrnC Bk-patch tgt VL: L-SPD
Detail	To display the Bk-color patch target value of screen C in real-time multiple tone control at low speed. Among 10-gradation patch images formed by each dithering method (error diffusion/low screen ruling/high screen ruling), 5th patch image is the target.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 1023	
Appropriate Target Value	0 - 700	

■ DRSTS-Y

COPIER (Service mode for printer) > DISPLAY (State display mode) > DRSTS-Y

DR-I-D-Y	1	Dspl of Drum Unit (Y) installed date
Detail		To display the installed date of the Drum Unit (Y). At initial installation, the date of the first power supply after assembling at factory is displayed. When the Drum Unit is replaced, the date of the first power supply after replacement is displayed.
Use Case		When checking the installed date of the Drum Unit
Adj/Set/Operate Method		N/A (Display only)
Caution		The date may differ from that at the location due to compliance with GMT.
Default Value		It differs according to the unit.
DRM-ID-Y	1	Display of Drum Unit (Y) ID
Detail		To display the ID of the Drum Unit (Y) that is installed to the machine.
Use Case		- When outputting the drum report - When checking the ID of the Drum Unit
Adj/Set/Operate Method		N/A (Display only)
Default Value		It differs according to the unit.
DR-O-D-Y	1	Dspl of Drum Unit (Y) removed date
Detail		To display the removed date of the Drum Unit (Y). The date on which the machine recognized that the ID of the replaced Drum Unit is different is displayed.
Use Case		- When outputting the drum report - When checking the ID of the Drum Unit
Adj/Set/Operate Method		N/A (Display only)
Caution		The date may differ from that at the location due to compliance with GMT.
Default Value		It differs according to the unit.
D-ST-Y	1	Display of Drum Unit (Y) status
Detail		To display the status of the Drum Unit (Y).
Use Case		- When outputting the drum report - When checking the state of the Drum Unit
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 3
Default Value		It differs according to the unit.
INI-S-Y	1	Dspl of Drum Unit installed station: Y
Detail		To display the color of the station where the Drum Unit was installed first.
Use Case		- When outputting the drum report - When checking the station information
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 4 1: Y, 2: M, 3: C, 4: Bk, 0: Others
Default Value		It differs according to the unit.
REP-S-Y	1	Dspl Drum Unit replacement station: Y
Detail		To display the color of the station where the Drum Unit has been replaced.
Use Case		- When outputting the drum report - When checking the station information
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 4 1: Y, 2: M, 3: C, 4: Bk, 0: Others
Default Value		It differs according to the unit.

■ DRSTS-C

COPIER (Service mode for printer) > DISPLAY (State display mode) > DRSTS-C

DR-I-D-C	1	Dspl of Drum Unit (C) installed date
Detail	To display the installed date of the Drum Unit (C). At initial installation, the date of the first power supply after assembling at factory is displayed. When the Drum Unit is replaced, the date of the first power supply after replacement is displayed.	
Use Case	When checking the installed date of the Drum Unit	
Adj/Set/Operate Method	N/A (Display only)	
Caution	The date may differ from that at the location due to compliance with GMT.	
Default Value	It differs according to the unit.	
DRM-ID-C	1	Display of Drum Unit (C) ID
Detail	To display the ID of the Drum Unit (C) that is installed to the machine.	
Use Case	- When outputting the drum report - When checking the ID of the Drum Unit	
Adj/Set/Operate Method	N/A (Display only)	
Default Value	It differs according to the unit.	
DR-O-D-C	1	Dspl of Drum Unit (C) removed date
Detail	To display the removed date of the Drum Unit (C). The date on which the machine recognized that the ID of the replaced Drum Unit is different is displayed.	
Use Case	- When outputting the drum report - When checking the ID of the Drum Unit	
Adj/Set/Operate Method	N/A (Display only)	
Caution	The date may differ from that at the location due to compliance with GMT.	
Default Value	It differs according to the unit.	
D-ST-C	1	Display of Drum Unit (C) status
Detail	To display the status of the Drum Unit (C).	
Use Case	- When outputting the drum report - When checking the state of the Drum Unit	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 3	
Default Value	It differs according to the unit.	
INI-S-C	1	Dspl of Drum Unit installed station: C
Detail	To display the color of the station where the Drum Unit was installed first.	
Use Case	- When outputting the drum report - When checking the station information	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 4 1: Y, 2: M, 3: C, 4: Bk, 0: Others	
Default Value	It differs according to the unit.	
REP-S-C	1	Dspl Drum Unit replacement station: C
Detail	To display the color of the station where the Drum Unit has been replaced.	
Use Case	- When outputting the drum report - When checking the station information	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 4 1: Y, 2: M, 3: C, 4: Bk, 0: Others	
Default Value	It differs according to the unit.	

■ DRSTS-M

COPIER (Service mode for printer) > DISPLAY (State display mode) > DRSTS-M

DR-I-D-M	1	Dspl of Drum Unit (M) installed date
Detail	To display the installed date of the Drum Unit (M). At initial installation, the date of the first power supply after assembling at factory is displayed. When the Drum Unit is replaced, the date of the first power supply after replacement is displayed.	
Use Case	When checking the installed date of the Drum Unit	
Adj/Set/Operate Method	N/A (Display only)	
Caution	The date may differ from that at the location due to compliance with GMT.	
DRM-ID-M	1	Display of Drum Unit (M) ID
Detail	To display the ID of the Drum Unit (M) that is installed to the machine.	
Use Case	- When outputting the drum report - When checking the ID of the Drum Unit	
Adj/Set/Operate Method	N/A (Display only)	
DR-O-D-M	1	Dspl of Drum Unit (M) removed date
Detail	To display the removed date of the Drum Unit (M). The date on which the machine recognized that the ID of the replaced Drum Unit is different is displayed.	
Use Case	- When outputting the drum report - When checking the ID of the Drum Unit	
Adj/Set/Operate Method	N/A (Display only)	
Caution	The date may differ from that at the location due to compliance with GMT.	
D-ST-M	1	Display of Drum Unit (M) status
Detail	To display the status of the Drum Unit (M).	
Use Case	- When outputting the drum report - When checking the state of the Drum Unit	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 3	
INI-S-M	1	Dspl of Drum Unit installed station: M
Detail	To display the color of the station where the Drum Unit was installed first.	
Use Case	- When outputting the drum report - When checking the station information	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 4 1: Y, 2: M, 3: C, 4: Bk, 0: Others	
REP-S-M	1	Dspl Drum Unit replacement station: M
Detail	To display the color of the station where the Drum Unit has been replaced.	
Use Case	- When outputting the drum report - When checking the station information	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 4 1: Y, 2: M, 3: C, 4: Bk, 0: Others	

■ DRSTS-K

COPIER (Service mode for printer) > DISPLAY (State display mode) > DRSTS-K

DR-I-D-K	1	Dspl of Drum Unit (Bk) installed date
Detail	To display the installed date of the Drum Unit (Bk). At initial installation, the date of the first power supply after assembling at factory is displayed. When the Drum Unit is replaced, the date of the first power supply after replacement is displayed.	
Use Case	When checking the installed date of the Drum Unit	
Adj/Set/Operate Method	N/A (Display only)	
Caution	The date may differ from that at the location due to compliance with GMT.	
DRM-ID-K	1	Display of Drum Unit (Bk) ID
Detail	To display the ID of the Drum Unit (Bk) that is installed to the machine.	
Use Case	- When outputting the drum report - When checking the ID of the Drum Unit	
Adj/Set/Operate Method	N/A (Display only)	
DR-O-D-K	1	Dspl of Drum Unit (Bk) removed date
Detail	To display the removed date of the Drum Unit (Bk). The date on which the machine recognized that the ID of the replaced Drum Unit is different is displayed.	
Use Case	- When outputting the drum report - When checking the ID of the Drum Unit	
Adj/Set/Operate Method	N/A (Display only)	
Caution	The date may differ from that at the location due to compliance with GMT.	
D-ST-K	1	Display of Drum Unit (Bk) status
Detail	To display the status of the Drum Unit (Bk).	
Use Case	- When outputting the drum report - When checking the state of the Drum Unit	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 3	
INI-S-K	1	Dspl of Drum Unit installed station: Bk
Detail	To display the color of the station where the Drum Unit was installed first.	
Use Case	- When outputting the drum report - When checking the station information	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 4 1: Y, 2: M, 3: C, 4: Bk, 0: Others	
REP-S-K	1	Dspl Drum Unit replacement station: Bk
Detail	To display the color of the station where the Drum Unit has been replaced.	
Use Case	- When outputting the drum report - When checking the station information	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 4 1: Y, 2: M, 3: C, 4: Bk, 0: Others	

■ FIXSTS

COPIER (Service mode for printer) > DISPLAY (State display mode) > FIXSTS

FIX-I-D	1	Display of Fixing Unit installed date
Detail	To display the installed date of the Fixing Unit. At initial installation, the date of the first power supply after assembling at factory is displayed. When the Fixing Unit is replaced, the date of the first power supply after replacement is displayed.	
Use Case	When checking the installed date of the Fixing Unit	
Adj/Set/Operate Method	N/A (Display only)	
Caution	The date may differ from that at the location due to compliance with GMT.	
Default Value	It differs according to the unit.	
FIX-O-D	1	Display of Fixing Unit removed date
Detail	To display the removed date of the Fixing Unit. The date on which the machine recognized that the ID of the replaced Fixing Unit is different is displayed.	
Use Case	- When outputting the Fixing Unit report - When checking the ID of the Fixing Unit	
Adj/Set/Operate Method	N/A (Display only)	
Caution	The date may differ from that at the location due to compliance with GMT.	
Default Value	It differs according to the unit.	
FIX-ST	1	Display of Fixing Unit status
Detail	To display the status of the Fixing Unit.	
Use Case	- When outputting the Fixing Unit report - When checking the status of the Fixing Unit	
Adj/Set/Operate Method	N/A (Display only)	

I/O

For Platform version 3.3 and later, this item is for R&D use only and not for actual use.
The I/O information can be found in service mode > SITUATION > Sensor Check.

ADJUST (Adjustment mode)

■ ADJ-XY

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > ADJ-XY

ADJ-X	1	Adj start pstn in book mode: vert scan
Detail	To adjust the image reading start position (image leading edge position) in the vertical scanning direction at copyboard reading. When replacing the Reader Controller PCB/clearing RAM data, enter the value of service label. Decrease the value when the non-image width is larger than the standard value. Increase the value when out of original area is copied. As the value is incremented by 1, the image position is moved to the trailing edge side by 0.1 mm.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > ADJ-XY

ADJ-Y	1	Adj start pstn in book mode: horz scan
Detail	To adjust the image reading start position in the horizontal scanning direction at copyboard reading. When replacing the Reader Controller PCB/clearing RAM data, enter the value of service label. Decrease the value when the non-image width is larger than the standard value. Increase the value when out of original area is copied. As the value is incremented by 1, the image position is moved to the rear side by 0.1 mm.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-35 to 35	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
ADJ-S	1	Adjustment of Reader shading position
Detail	To adjust the Scanner Unit (for front side) position in feed direction when reading the White Plate on the left edge of the Copyboard Glass. When replacing the Scanner Unit, execute RDSHDPOS and write the value of this item in the service label. When clearing the Reader-related RAM data, enter the value of service label. As the value is incremented by 1, the reading position moves to the trailing edge side by 0.1 mm.	
Use Case	- When black lines/white lines appear - When replacing the Scanner Unit (for front side) - When clearing the Reader-related RAM data	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-100 to 100	
Unit	mm	
Default Value	0	
Related Service Mode	COPIER> FUNCTION> INSTALL> RDSHDPOS	
Amount of Change per Unit	0.1	
ADJ-Y-DF	1	Adj start pstn:DADF mode, horz scan, frt
Detail	To adjust the front side image reading start position in horizontal scanning direction at DADF reading. When replacing the Reader Controller PCB/clearing RAM data, enter the value of service label. As the value is incremented by 1, the image position is moved to the rear side by 0.1 mm.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-35 to 35	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > ADJ-XY

STRD-POS	1	Adj frt side read pstn: DADF stream read
Detail	To adjust the Scanner Unit (for front side) position in feed direction when stream reading original with DADF. When replacing the Reader Controller PCB/clearing RAM data, enter the value of service label.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Related Service Mode	COPIER> FUNCTION> INSTALL> STRD-POS	
Amount of Change per Unit	0.1	
ADJ-X-MG	1	Fine adj img ratio: book mode, vert scan
Detail	To make a fine adjustment of image magnification ratio in vertical scanning direction at copyboard reading. When replacing the Reader Controller PCB/clearing RAM data, enter the value of service label. As the value is changed by 1, the image magnification ratio is changed by 0.01 %. +: Enlarge -: Reduce	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-50 to 50	
Unit	%	
Default Value	0	
Amount of Change per Unit	0.01	
ADJY-DF2	1	Adj start pstn:DADF mode, horz scan, bck
Detail	To adjust the back side image reading start position in horizontal scanning direction at DADF reading. When replacing the Reader Controller PCB/clearing RAM data, enter the value of service label. As the value is incremented by 1, the image position is moved to the rear side by 0.1 mm.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-35 to 35	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	

■ CCD

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

W-PLT-X	1	Stdrd White Plt white lvl data (X) entry
Detail		To enter the white level data (X) for the Standard White Plate. When replacing the Reader Controller PCB/clearing RAM data/replacing the Copyboard Glass, enter the value of barcode label which is affixed on the glass.
Use Case		- When replacing the Reader Controller PCB/clearing RAM data - When replacing the Copyboard Glass
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		1 to 9999
Default Value		8271
Related Service Mode		COPIER> ADJUST> CCD> W-PLT-Y/Z
Amount of Change per Unit		1
W-PLT-Y	1	Stdrd White Plt white lvl data (Y) entry
Detail		To enter the white level data (Y) for the Standard White Plate. When replacing the Reader Controller PCB/clearing RAM data/replacing the Copyboard Glass, enter the value of barcode label which is affixed on the glass.
Use Case		- When replacing the Reader Controller PCB/clearing RAM data - When replacing the Copyboard Glass
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		1 to 9999
Default Value		8735
Related Service Mode		COPIER> ADJUST> CCD> W-PLT-X/Z
Amount of Change per Unit		1
W-PLT-Z	1	Stdrd White Plt white lvl data (Z) entry
Detail		To enter the white level data (Z) for the Standard White Plate. When replacing the Reader Controller PCB/clearing RAM data/replacing the Copyboard Glass, enter the value of barcode label which is affixed on the glass.
Use Case		- When replacing the Reader Controller PCB/clearing RAM data - When replacing the Copyboard Glass
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		1 to 9999
Default Value		9418
Related Service Mode		COPIER> ADJUST> CCD> W-PLT-X/Y
Amount of Change per Unit		1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

SH-TRGT	1	Shading target VL (B&W) entry: Copyboard
Detail	To enter the B&W shading target value in copyboard reading mode. When replacing the Reader Controller PCB, enter the value of service label. When replacing the Scanner Unit, execute DF-WLVL3 and write the value which is automatically set in the service label.	
Use Case	- When replacing the Reader Controller PCB/clearing RAM data - When replacing the Scanner Unit	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	1 to 2047	
Default Value	1126	
Related Service Mode	COPIER> FUNCTION> CCD> DF-WLVL3	
Amount of Change per Unit	1	
100-RG	1	Img Sensr RG color displace crct: front
Detail	To correct the color displacement between R and G lines in vertical scanning direction due to the Scanner Unit (for front side). When replacing the Reader Controller PCB/clearing RAM data, enter the value of service label.	
Use Case	- When replacing the Reader Controller PCB/clearing RAM data - When replacing the Scanner Unit (for front side)	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-256 to 256	
Unit	line	
Default Value	0	
Amount of Change per Unit	0.001	
100-GB	1	Img Sensr GB color displace crct: front
Detail	To correct the color displacement between G and B lines in vertical scanning direction due to the Scanner Unit (for front side). When replacing the Reader Controller PCB/clearing RAM data, enter the value of service label.	
Use Case	- When replacing the Reader Controller PCB/clearing RAM data - When replacing the Scanner Unit (for front side)	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-256 to 256	
Unit	line	
Default Value	0	
Amount of Change per Unit	0.001	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

DFTAR-R	1	Shading target VL (R) entry: front side
Detail	To enter the shading target value of Red on the front side at DADF reading. When replacing the Reader Controller PCB, enter the value of service label. When replacing the Copyboard Glass/Scanner Unit (for front side), execute COPIER> FUNCTION> CCD> DF-WLVL1, DF-WLVL2 and write the value which is automatically set in the service label.	
Use Case	- When replacing the Reader Controller PCB/clearing RAM data - When replacing the Copyboard Glass/Scanner Unit (for front side)	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	1 to 2047	
Default Value	1159	
Related Service Mode	COPIER> FUNCTION> CCD> DF-WLVL1/WLVL2	
Amount of Change per Unit	1	
DFTAR-G	1	Shading target VL (G) entry: front side
Detail	To enter the shading target value of Green on the front side at DADF reading. When replacing the Reader Controller PCB, enter the value of service label. When replacing the Copyboard Glass/Scanner Unit (for front side), execute COPIER> FUNCTION> CCD> DF-WLVL1, DF-WLVL2 and write the value which is automatically set in the service label.	
Use Case	- When replacing the Reader Controller PCB/clearing RAM data - When replacing the Copyboard Glass/Scanner Unit (for front side)	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	1 to 2047	
Default Value	1189	
Related Service Mode	COPIER> FUNCTION> CCD> DF-WLVL1/WLVL2	
Amount of Change per Unit	1	
DFTAR-B	1	Shading target VL (B) entry: front side
Detail	To enter the shading target value of Blue on the front side at DADF reading. When replacing the Reader Controller PCB, enter the value of service label. When replacing the Copyboard Glass/Scanner Unit (for front side), execute COPIER> FUNCTION> CCD> DF-WLVL1, DF-WLVL2 and write the value which is automatically set in the service label.	
Use Case	- When replacing the Reader Controller PCB/clearing RAM data - When replacing the Copyboard Glass/Scanner Unit (for front side)	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	1 to 2047	
Default Value	1209	
Related Service Mode	COPIER> FUNCTION> CCD> DF-WLVL1/WLVL2	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

MTF2-M1	1	MTF value 1 entry: horz scan, front side
Detail	To enter the setting value 1 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.	
Use Case	- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	20 to 85	
Default Value	50	
Related Service Mode	COPIER> FUNCTION> CCD> MTF-CLC	
Amount of Change per Unit	1	
MTF2-M2	1	MTF value 2 entry: horz scan, front side
Detail	To enter the setting value 2 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.	
Use Case	- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	20 to 85	
Default Value	50	
Related Service Mode	COPIER> FUNCTION> CCD> MTF-CLC	
Amount of Change per Unit	1	
MTF2-M3	1	MTF value 3 entry: horz scan, front side
Detail	To enter the setting value 3 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.	
Use Case	- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	20 to 85	
Default Value	50	
Related Service Mode	COPIER> FUNCTION> CCD> MTF-CLC	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

MTF2-M4	1	MTF value 4 entry: horz scan, front side
Detail	To enter the setting value 4 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.	
Use Case	- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	20 to 85	
Default Value	50	
Related Service Mode	COPIER> FUNCTION> CCD> MTF-CLC	
Amount of Change per Unit	1	
MTF2-M5	1	MTF value 5 entry: horz scan, front side
Detail	To enter the setting value 5 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.	
Use Case	- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	20 to 85	
Default Value	50	
Related Service Mode	COPIER> FUNCTION> CCD> MTF-CLC	
Amount of Change per Unit	1	
MTF2-M6	1	MTF value 6 entry: horz scan, front side
Detail	To enter the setting value 6 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.	
Use Case	- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	20 to 85	
Default Value	50	
Related Service Mode	COPIER> FUNCTION> CCD> MTF-CLC	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

MTF2-M7	1	MTF value 7 entry: horz scan, front side
Detail		To enter the setting value 7 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF2-M8	1	MTF value 8 entry: horz scan, front side
Detail		To enter the setting value 8 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF2-M9	1	MTF value 9 entry: horz scan, front side
Detail		To enter the setting value 9 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

MTF2-S1	1	MTF value 1 entry: vert scan, front side
Detail		To enter the setting value 1 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF2-S2	1	MTF value 2 entry: vert scan, front side
Detail		To enter the setting value 2 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF2-S3	1	MTF value 3 entry: vert scan, front side
Detail		To enter the setting value 3 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

MTF2-S4	1	MTF value 4 entry: vert scan, front side
Detail		To enter the setting value 4 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF2-S5	1	MTF value 5 entry: vert scan, front side
Detail		To enter the setting value 5 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF2-S6	1	MTF value 6 entry: vert scan, front side
Detail		To enter the setting value 6 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

MTF2-S7	1	MTF value 7 entry: vert scan, front side
Detail		To enter the setting value 7 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF2-S8	1	MTF value 8 entry: vert scan, front side
Detail		To enter the setting value 8 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF2-S9	1	MTF value 9 entry: vert scan, front side
Detail		To enter the setting value 9 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

100DF2GB	2	Img Sensr GB color displace crct: back
Detail	To correct the color displacement between G and B lines in vertical scanning direction due to the Scanner Unit (for back side). When replacing the Reader Controller PCB/clearing RAM data, enter the value of service label.	
Use Case	- When replacing the Reader Controller PCB/clearing RAM data - When replacing the Scanner Unit	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-256 to 256	
Unit	line	
Default Value	0	
Amount of Change per Unit	0.001	
100DF2RG	2	Img Sensr RG color displace crct: back
Detail	To correct the color displacement between R and G lines in vertical scanning direction due to the Scanner Unit (for back side). When replacing the Reader Controller PCB/clearing RAM data, enter the value of service label.	
Use Case	- When replacing the Reader Controller PCB/clearing RAM data - When replacing the Scanner Unit	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-256 to 256	
Unit	line	
Default Value	0	
Amount of Change per Unit	0.001	
DFCH2R2	1	Complex chart No.2 data (R) entry: front
Detail	To derive the front/back side linearity, enter the Red data on the front side of No.2 image in DADF complex chart. Enter the value of service label on the Reader.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	1 to 2550	
Default Value	2000	
Amount of Change per Unit	1	
DFCH2R10	1	Complex chart No.10 data (R) entry:front
Detail	To derive the front/back side linearity, enter the Red data on the front side of No.10 image in DADF complex chart. Enter the value of service label on the Reader.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 2550	
Default Value	0	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

DFCH2B2	1	Complex chart No.2 data (B) entry: front
Detail	To derive the front/back side linearity, enter the Blue data on the front side of No.2 image in DADF complex chart. Enter the value of service label on the Reader.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	1 to 2550	
Default Value	2000	
Amount of Change per Unit	1	
DFCH2B10	1	Complex chart No.10 data (B) entry:front
Detail	To derive the front/back side linearity, enter the Blue data on the front side of No.10 image in DADF complex chart. Enter the value of service label on the Reader.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 2550	
Default Value	0	
Amount of Change per Unit	1	
DFCH2G2	1	Complex chart No.2 data (G) entry: front
Detail	To derive the front/back side linearity, enter the Green data on the front side of No.2 image in DADF complex chart. Enter the value of service label on the Reader.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	1 to 2550	
Default Value	2000	
Amount of Change per Unit	1	
DFCH2G10	1	Complex chart No.10 data (G) entry:front
Detail	To derive the front/back side linearity, enter the Green data on the front side of No.10 image in DADF complex chart. Enter the value of service label on the Reader.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 2550	
Default Value	0	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

MTF-M1	1	MTF value 1 entry: horz scan, back side
Detail		To enter the setting value 1 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF-M2	1	MTF value 2 entry: horz scan, back side
Detail		To enter the setting value 2 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF-M3	1	MTF value 3 entry: horz scan, back side
Detail		To enter the setting value 3 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

MTF-M4	1	MTF value 4 entry: horz scan, back side
Detail		To enter the setting value 4 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF-M5	1	MTF value 5 entry: horz scan, back side
Detail		To enter the setting value 5 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF-M6	1	MTF value 6 entry: horz scan, back side
Detail		To enter the setting value 6 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

MTF-M7	1	MTF value 7 entry: horz scan, back side
Detail		To enter the setting value 7 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF-M8	1	MTF value 8 entry: horz scan, back side
Detail		To enter the setting value 8 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF-M9	1	MTF value 9 entry: horz scan, back side
Detail		To enter the setting value 9 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

MTF-S1	1	MTF value 1 entry: vert scan, back side
Detail		To enter the setting value 1 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF-S2	1	MTF value 2 entry: vert scan, back side
Detail		To enter the setting value 2 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF-S3	1	MTF value 3 entry: vert scan, back side
Detail		To enter the setting value 3 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

MTF-S4	1	MTF value 4 entry: vert scan, back side
Detail		To enter the setting value 4 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF-S5	1	MTF value 5 entry: vert scan, back side
Detail		To enter the setting value 5 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF-S6	1	MTF value 6 entry: vert scan, back side
Detail		To enter the setting value 6 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

MTF-S7	1	MTF value 7 entry: vert scan, back side
Detail		To enter the setting value 7 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF-S8	1	MTF value 8 entry: vert scan, back side
Detail		To enter the setting value 8 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF-S9	1	MTF value 9 entry: vert scan, back side
Detail		To enter the setting value 9 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
DFCH-R2	1	Complex chart No.2 data (R) entry: back
Detail		To derive the front/back side linearity, enter the Red data on the back side of No.2 image in DADF complex chart. Enter the value of service label on the Reader.
Use Case		When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		1 to 2550
Default Value		2000
Amount of Change per Unit		1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

DFCH-R10	1	Complex chart No.10 data (R) entry: back
Detail	To derive the front/back side linearity, enter the Red data on the back side of No.10 image in DADF complex chart. Enter the value of service label on the Reader.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 2550	
Default Value	0	
Amount of Change per Unit	1	
DFCH-B2	1	Complex chart No.2 data (B) entry: back
Detail	To derive the front/back side linearity, enter the Blue data on the back side of No.2 image in DADF complex chart. Enter the value of service label on the Reader.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	1 to 2550	
Default Value	2000	
Amount of Change per Unit	1	
DFCH-B10	1	Complex chart No.10 data (B) entry: back
Detail	To derive the front/back side linearity, enter the Blue data on the back side of No.10 image in DADF complex chart. Enter the value of service label on the Reader.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 2550	
Default Value	0	
Amount of Change per Unit	1	
DFCH-G2	1	Complex chart No.2 data (G) entry: back
Detail	To derive the front/back side linearity, enter the Green data on the back side of No.2 image in DADF complex chart. Enter the value of service label on the Reader.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	1 to 2550	
Default Value	2000	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

DFCH-G10	1	Complex chart No.10 data (G) entry: back
Detail	To derive the front/back side linearity, enter the Green data on the back side of No.10 image in DADF complex chart. Enter the value of service label on the Reader.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 2550	
Default Value	0	
Amount of Change per Unit	1	
MTF2-M10	1	MTF value 10 entry:horz scan, front side
Detail	To enter the setting value 10 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.	
Use Case	- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	20 to 85	
Default Value	50	
Related Service Mode	COPIER> FUNCTION> CCD> MTF-CLC	
Amount of Change per Unit	1	
MTF2-M11	1	MTF value 11 entry:horz scan, front side
Detail	To enter the setting value 11 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.	
Use Case	- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	20 to 85	
Default Value	50	
Related Service Mode	COPIER> FUNCTION> CCD> MTF-CLC	
Amount of Change per Unit	1	
MTF2-M12	1	MTF value 12 entry:horz scan, front side
Detail	To enter the setting value 12 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.	
Use Case	- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	20 to 85	
Default Value	50	
Related Service Mode	COPIER> FUNCTION> CCD> MTF-CLC	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

MTF2-S10	1	MTF value 10 entry:vert scan, front side
Detail		To enter the setting value 10 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF2-S11	1	MTF value 11 entry:vert scan, front side
Detail		To enter the setting value 11 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF2-S12	1	MTF value 12 entry:vert scan, front side
Detail		To enter the setting value 12 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for front side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

MTF-M10	1	MTF value 10 entry:horz scan, back side
Detail		To enter the setting value 10 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF-M11	1	MTF value 11 entry:horz scan, back side
Detail		To enter the setting value 11 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF-M12	1	MTF value 12 entry:horz scan, back side
Detail		To enter the setting value 12 for calculating MTF filter coefficient in horizontal scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

MTF-S10	1	MTF value 10 entry:vert scan, back side
Detail		To enter the setting value 10 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF-S11	1	MTF value 11 entry:vert scan, back side
Detail		To enter the setting value 11 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
MTF-S12	1	MTF value 12 entry:vert scan, back side
Detail		To enter the setting value 12 for calculating MTF filter coefficient in vertical scanning direction of the Scanner Unit (for back side). Enter the value of service label on the Reader.
Use Case		- When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		20 to 85
Default Value		50
Related Service Mode		COPIER> FUNCTION> CCD> MTF-CLC
Amount of Change per Unit		1
DFCH2K2	1	Complex chart No.2 data (B&W) entr: frt
Detail		To derive the front/back side linearity, enter the B&W data on the front side of No.2 image in DADF complex chart. Enter the value of service label on the Reader.
Use Case		When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		1 to 2550
Default Value		2000
Amount of Change per Unit		1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

DFCH2K10	1	Complex chart No.10 data (B&W) entr: frt
Detail	To derive the front/back side linearity, enter the B&W data on the front side of No.10 image in DADF complex chart. Enter the value of service label on the Reader.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 2550	
Default Value	0	
Amount of Change per Unit	1	
DFCH-K2	1	Complex chart No.2 data (B&W) entr: bck
Detail	To derive the front/back side linearity, enter the B&W data on the back side of No.2 image in DADF complex chart. Enter the value of service label on the Reader.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	1 to 2550	
Default Value	2000	
Amount of Change per Unit	1	
DFCH-K10	1	Complex chart No.10 data (B&W) entr: bck
Detail	To derive the front/back side linearity, enter the B&W data on the back side of No.10 image in DADF complex chart. Enter the value of service label on the Reader.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 2550	
Default Value	0	
Amount of Change per Unit	1	
DFTAR-BW	1	Shading target VL (B&W) entry: front
Detail	To enter the B&W shading target value on the front side at DADF reading. When replacing the Reader Controller PCB, enter the value of service label. When replacing the Copyboard Glass/Scanner Unit (for front side), execute COPIER> FUNCTION> CCD> DF-WLVL3, DF-WLVL4 and write the value which is automatically set in the service label.	
Use Case	- When replacing the Reader Controller PCB/clearing RAM data - When replacing the Copyboard Glass/Scanner Unit (for front side)	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	1 to 2047	
Default Value	1209	
Related Service Mode	COPIER> FUNCTION> CCD> DF-WLVL3/WLVL4	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

DFTBK-G	1	Shading target VL (G) entry: back side
Detail	To enter the shading target value of Green on the back side at DADF reading. When replacing the Reader Controller PCB, enter the value of service label. When replacing the Copyboard Glass/Scanner Unit (for back side), execute COPIER> FUNCTION> CCD> DF-WLVL1, DF-WLVL2 and write the value which is automatically set in the service label.	
Use Case	- When replacing the Reader Controller PCB/clearing RAM data - When replacing the Scanner Unit (for back side)	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	700 to 1400	
Default Value	1136	
Related Service Mode	COPIER> FUNCTION> CCD> DF-WLVL1/WLVL2	
Amount of Change per Unit	1	
DFTBK-B	1	Shading target VL (B) entry: back side
Detail	To enter the shading target value of Blue on the back side at DADF reading. When replacing the Reader Controller PCB, enter the value of service label. When replacing the Copyboard Glass/Scanner Unit (for back side), execute COPIER> FUNCTION> CCD> DF-WLVL1, DF-WLVL2 and write the value which is automatically set in the service label.	
Use Case	- When replacing the Reader Controller PCB/clearing RAM data - When replacing the Scanner Unit (for back side)	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	700 to 1400	
Default Value	1126	
Related Service Mode	COPIER> FUNCTION> CCD> DF-WLVL1/WLVL2	
Amount of Change per Unit	1	
DFTBK-R	1	Shading target VL (R) entry: back side
Detail	To enter the shading target value of Red on the back side at DADF reading. When replacing the Reader Controller PCB, enter the value of service label. When replacing the Copyboard Glass/Scanner Unit (for back side), execute COPIER> FUNCTION> CCD> DF-WLVL1, DF-WLVL2 and write the value which is automatically set in the service label.	
Use Case	- When replacing the Reader Controller PCB/clearing RAM data - When replacing the Scanner Unit (for back side)	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	700 to 1400	
Default Value	1156	
Related Service Mode	COPIER> FUNCTION> CCD> DF-WLVL1/WLVL2	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CCD

DFTBK-BW	1	Shading target VL (B&W) entry: back
Detail	To enter the B&W shading target value on the back side at DADF reading. When replacing the Reader Controller PCB, enter the value of service label. When replacing the Copyboard Glass/Scanner Unit (for back side), execute COPIER> FUNCTION> CCD> DF-WLVL3, DF-WLVL4 and write the value which is automatically set in the service label.	
Use Case	- When replacing the Reader Controller PCB/clearing RAM data - When replacing the Copyboard Glass/Scanner Unit (for back side)	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	700 to 1400	
Default Value	1126	
Related Service Mode	COPIER> FUNCTION> CCD> DF-WLVL3/WLVL4	
Amount of Change per Unit	1	

■ IMG-REG

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > IMG-REG

REG-H-Y	1	Ruf adj Y-clr wrt start pstn:horz scan
Detail	To adjust the write start position of Y-color image in the horizontal scanning direction in increments of 1 pixel.	
Use Case	When Y-color displacement in horizontal scanning direction occurs	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by -/+ key) and press OK key.	
Display/Adj/Set Range	-128 to 127	
Unit	pixel	
Default Value	0	
Amount of Change per Unit	1	
REG-H-C	1	Ruf adj C-clr wrt start pstn:horz scan
Detail	To adjust the write start position of C-color image in the horizontal scanning direction in increments of 1 pixel.	
Use Case	When C-color displacement in horizontal scanning direction occurs	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by -/+ key) and press OK key.	
Display/Adj/Set Range	-128 to 127	
Unit	pixel	
Default Value	0	
Amount of Change per Unit	1	
REG-H-K	1	Ruf adj Bk-clr wrt start pstn:horz scan
Detail	To adjust the write start position of Bk-color image in the horizontal scanning direction in increments of 1 pixel.	
Use Case	When Bk-color displacement in horizontal scanning direction occurs	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by -/+ key) and press OK key.	
Display/Adj/Set Range	-128 to 127	
Unit	pixel	
Default Value	0	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > IMG-REG

REG-HS-Y	1	Fine adj Y-clr wrt start pstn:horz scan
Detail		To adjust the write start position of Y-color image in the horizontal scanning direction in increments of 1 pixel or less.
Use Case		When Y-color displacement in the horizontal scanning direction occurs (smaller than 1 pixel)
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Display/Adj/Set Range		-128 to 127
Unit		pixel
Default Value		0
Amount of Change per Unit		1/32
REG-HS-C	1	Fine adj C-clr wrt start pstn:horz scan
Detail		To adjust the write start position of C-color image in the horizontal scanning direction in increments of 1 pixel or less.
Use Case		When C-color displacement in the horizontal scanning direction occurs (smaller than 1 pixel)
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Display/Adj/Set Range		-128 to 127
Unit		pixel
Default Value		0
Amount of Change per Unit		1/32
REG-HS-K	1	Fine adj Bk-clr wrt start pstn:horz scan
Detail		To adjust the write start position of Bk-color image in the horizontal scanning direction in increments of less than 1 pixel.
Use Case		When Bk-color displacement in the horizontal scanning direction occurs (smaller than 1 pixel)
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Display/Adj/Set Range		-128 to 127
Unit		pixel
Default Value		0
Amount of Change per Unit		1/32
REG-V-Y	1	Ruf adj Y-clr wrt start pstn:vert scan
Detail		To adjust the write start position of Y-color image in the vertical scanning direction in increments of 1 pixel.
Use Case		When Y-color displacement in vertical scanning direction occurs
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Display/Adj/Set Range		0 to 127
Unit		line
Default Value		0
Amount of Change per Unit		1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > IMG-REG

REG-V-C	1	Ruf adj C-clr wrt start pstn:vert scan
Detail		To adjust the write start position of C-color image in the vertical scanning direction in increments of 1 pixel.
Use Case		When C-color displacement in vertical scanning direction occurs
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Display/Adj/Set Range		-128 to 127
Unit		line
Default Value		0
Amount of Change per Unit		1
REG-V-K	1	Ruf adj Bk-clr wrt start pstn:vert scan
Detail		To adjust the write start position of Bk-color image in the vertical scanning direction in increments of 1 pixel.
Use Case		When Bk-color displacement in vertical scanning direction occurs
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Display/Adj/Set Range		-128 to 127
Unit		line
Default Value		0
Amount of Change per Unit		1
REG-H-M	1	Ruf adj M-clr wrt start pstn:horz scan
Detail		To adjust the write start position of M-color image in the horizontal scanning direction in increments of 1 pixel.
Use Case		When M-color displacement in horizontal scanning direction occurs
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Display/Adj/Set Range		-128 to 127
Unit		pixel
Default Value		0
Amount of Change per Unit		1
REG-V-M	1	Ruf adj M-clr wrt start pstn:vert scan
Detail		To adjust the write start position of M-color image in the vertical scanning direction in increments of 1 pixel.
Use Case		When M-color displacement in vertical scanning direction occurs
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Display/Adj/Set Range		-128 to 127
Unit		line
Default Value		0
Amount of Change per Unit		1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > IMG-REG

REG-HS-M	1	Fine adj M-clr wrt start pstn:horz scan
Detail		To adjust the write start position of M-color image in the horizontal scanning direction in increments of less than 1 pixel.
Use Case		When M-color displacement in the horizontal scanning direction occurs (smaller than 1 pixel)
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Display/Adj/Set Range		-128 to 127
Unit		pixel
Default Value		0
Amount of Change per Unit		1/32
MAG-H	1	For R&D
Amount of Change per Unit		0.1
MAG-V	1	For R&D
Amount of Change per Unit		0.125

■ DENS

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > DENS

SGNL-Y	1	Enter Y toner dens VL: initialization
Detail		To enter the Y toner density value when initializing the Patch Sensor (Center).
Use Case		When checking the value before RAM clear and re-entering it after RAM clear
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1023
Default Value		0
SGNL-M	1	Enter M toner dens VL: initialization
Detail		To enter the M toner density value when initializing the Patch Sensor (Center).
Use Case		When checking the value before RAM clear and re-entering it after RAM clear
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1023
Default Value		0
SGNL-C	1	Enter C toner dens VL: initialization
Detail		To enter the C toner density value when initializing the Patch Sensor (Center).
Use Case		When checking the value before RAM clear and re-entering it after RAM clear
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1023
Default Value		0
REF-Y	1	Y toner dens target VL entry
Detail		To enter the target value of ATR control for the ATR Sensor (Y). Be sure to check the value before clearing RAM and enter it again after RAM clear.
Use Case		When checking the value before RAM clear and re-entering it after RAM clear
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 255
Default Value		111

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > DENS

REF-M	1	M toner dens target VL entry
Detail	To enter the target value of ATR control for the ATR Sensor (M). Be sure to check the value before clearing RAM and enter it again after RAM clear.	
Use Case	When checking the value before RAM clear and re-entering it after RAM clear	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 255	
Default Value	111	
REF-C	1	C toner dens target VL entry
Detail	To enter the target value of ATR control for the ATR Sensor (C). Be sure to check the value before clearing RAM and enter it again after RAM clear.	
Use Case	When checking the value before RAM clear and re-entering it after RAM clear	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 255	
Default Value	111	
SGNL-K	1	Enter Bk toner dens VL: initialization
Detail	To enter the Bk toner density value when initializing the Patch Sensor (Center).	
Use Case	When checking the value before RAM clear and re-entering it after RAM clear	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1023	
Default Value	0	
DMAX-Y	2	Adj D-max ctrl Y-color dens target VL
Detail	An image failure may occur because the density target value of D-max control becomes out of the setting table due to environment change. Adjust the offset of the Y-color density target value of D-max control. The setting is reset when auto gradation adjustment (full adjustment) is executed.	
Use Case	When an image failure occurs due to environment change	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this item only for the printer models.	
Display/Adj/Set Range	-128 to 128	
Default Value	0	
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Auto Adjust Gradation> Full Adjust	
DMAX-M	2	Adj D-max ctrl M-color dens target VL
Detail	An image failure may occur because the density target value of D-max control becomes out of the setting table due to environment change. Adjust the offset of the M-color density target value of D-max control. The setting is reset when auto gradation adjustment (full adjustment) is executed.	
Use Case	When an image failure occurs due to environment change	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this item only for the printer models.	
Display/Adj/Set Range	-128 to 128	
Default Value	0	
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Auto Adjust Gradation> Full Adjust	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > DENS

DMAX-C	2	Adj D-max ctrl C-color dens target VL
Detail	An image failure may occur because the density target value of D-max control becomes out of the setting table due to environment change. Adjust the offset of the C-color density target value of D-max control. The setting is reset when auto gradation adjustment (full adjustment) is executed.	
Use Case	When an image failure occurs due to environment change	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this item only for the printer models.	
Display/Adj/Set Range	-128 to 128	
Default Value	0	
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Auto Adjust Gradation> Full Adjust	
P-TG-Y	2	Adj of ATR control Y-color target value
Detail	To adjust the offset of the ATR patch target value for Y. When the target value determined upon initialization is changed, the TD ratio is also changed. Fogging and density increase are alleviated when the value is smaller, and carrier adherence is alleviated when it is larger.	
Use Case	When density failures, fogging, carrier adherence, etc. occur	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Make 50 prints of approx. 10% image ratio (e.g. COPIER> TEST> PG> TYPE: 16) 4 times. 4) Execute auto gradation adjustment (full adjustment).	
Caution	Execute the auto gradation adjustment first to increase the density. If you adjust the offset of the target value, fogging might get worse.	
Display/Adj/Set Range	-4 to 4	
Default Value	0	
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Auto Adjust Gradation> Full Adjust	
P-TG-M	2	Adj of ATR control M-color target value
Detail	To adjust the offset of the ATR patch target value for M. When the target value determined upon initialization is changed, the TD ratio is also changed. Fogging and density increase are alleviated when the value is smaller, and carrier adherence is alleviated when it is larger.	
Use Case	When density failures, fogging, carrier adherence, etc. occur	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Make 50 prints of approx. 10% image ratio (e.g. COPIER> TEST> PG> TYPE: 16) 4 times. 4) Execute auto gradation adjustment (full adjustment).	
Caution	Execute the auto gradation adjustment first to increase the density. If you adjust the offset of the target value, fogging might get worse.	
Display/Adj/Set Range	-4 to 4	
Default Value	0	
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Auto Adjust Gradation> Full Adjust	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > DENS

P-TG-C	2	Adj of ATR control C-color target value
Detail	To adjust the offset of the ATR patch target value for C. When the target value determined upon initialization is changed, the TD ratio is also changed. Fogging and density increase are alleviated when the value is smaller, and carrier adherence is alleviated when it is larger.	
Use Case	When density failures, fogging, carrier adherence, etc. occur	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Make 50 prints of approx. 10% image ratio (e.g. COPIER> TEST> PG> TYPE: 16) 4 times. 4) Execute auto gradation adjustment (full adjustment).	
Caution	Execute the auto gradation adjustment first to increase the density. If you adjust the offset of the target value, fogging might get worse.	
Display/Adj/Set Range	-4 to 4	
Default Value	0	
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Auto Adjust Gradation> Full Adjust	
P-TG-K	2	Adj of ATR control Bk-color target value
Detail	To adjust the offset of the ATR patch target value for Bk. When the target value determined upon initialization is changed, the TD ratio is also changed. Fogging and density increase are alleviated when the value is smaller, and carrier adherence is alleviated when it is larger.	
Use Case	When density failures, fogging, carrier adherence, etc. occur	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Make 50 prints of approx. 10% image ratio (e.g. COPIER> TEST> PG> TYPE: 16) 4 times. 4) Execute auto gradation adjustment (full adjustment).	
Caution	Execute the auto gradation adjustment first to increase the density. If you adjust the offset of the target value, fogging might get worse.	
Display/Adj/Set Range	-4 to 4	
Default Value	0	
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Auto Adjust Gradation> Full Adjust	
DMAX-K	2	Adj D-max ctrl Bk-color dens target VL
Detail	An image failure may occur because the density target value of D-max control becomes out of the setting table due to environment change. Adjust the offset of the Bk-color density target value of D-max control. The setting is reset when auto gradation adjustment (full adjustment) is executed.	
Use Case	When an image failure occurs due to environment change	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this item only for the printer models.	
Display/Adj/Set Range	-128 to 128	
Default Value	0	
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Auto Adjust Gradation> Full Adjust	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > DENS

REF-K	1	Bk toner dens target VL entry
Detail	To enter the target value of ATR control for the ATR Sensor (Bk). Be sure to check the value before clearing RAM and enter it again after RAM clear.	
Use Case	When checking the value before RAM clear and re-entering it after RAM clear	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 255	
Default Value	128	
CONT-Y	1	ATR Sensor (Y) control voltage entry
Detail	To enter the density detection control voltage of the ATR Sensor (Y). When replacing the DC Controller PCB/clearing RAM data, enter the value of service label. As the value is changed by 1, the control voltage is changed by 0.01 V.	
Use Case	When the backup data is cleared by RAM clear, etc.	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	0 to 1024	
Unit	V	
Default Value	0	
Amount of Change per Unit	0.01	
CONT-M	1	ATR Sensor (M) control voltage entry
Detail	To enter the density detection control voltage of the ATR Sensor (M). When replacing the DC Controller PCB/clearing RAM data, enter the value of service label. As the value is changed by 1, the control voltage is changed by 0.01 V.	
Use Case	When the backup data is cleared by RAM clear, etc.	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	0 to 1024	
Unit	V	
Default Value	0	
Amount of Change per Unit	0.01	
CONT-C	1	ATR Sensor (C) control voltage entry
Detail	To enter the density detection control voltage of the ATR Sensor (C). When replacing the DC Controller PCB/clearing RAM data, enter the value of service label. As the value is changed by 1, the control voltage is changed by 0.01 V.	
Use Case	When the backup data is cleared by RAM clear, etc.	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	0 to 1024	
Unit	V	
Default Value	0	
Amount of Change per Unit	0.01	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > DENS

CONT-K	1	ATR Sensor (Bk) control voltage entry
Detail		To enter the density detection control voltage of the ATR Sensor (Bk). When replacing the DC Controller PCB/clearing RAM data, enter the value of service label. As the value is changed by 1, the control voltage is changed by 0.01 V.
Use Case		When the backup data is cleared by RAM clear, etc.
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range		0 to 1024
Unit		V
Default Value		0
Amount of Change per Unit		0.01

■ BLANK

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > BLANK

BLANK-T	1	Adjustment of leading edge margin
Detail		To adjust the margin on the leading edge of paper. As the value is incremented by 1, the margin is increased toward the center of the paper by 1 pixel.
Use Case		- Upon user's request (to reduce the margin) - When increasing the margin for transfer separation/fixing separation
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 1000
Unit		pixel
Default Value		94
Supplement/Memo		The length of a pixel differs depending on the print resolution (600 dpi: 0.0423 mm, 1200 dpi: 0.0212 mm).
Amount of Change per Unit		1

BLANK-L	1	Adjustment of left edge margin
Detail		To adjust the margin on the left edge of paper. As the value is incremented by 1, the margin is increased toward the center of the paper by 1 pixel.
Use Case		- Upon user's request (to reduce the margin) - When increasing the margin for transfer separation/fixing separation
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 1000
Unit		pixel
Default Value		59
Supplement/Memo		The length of a pixel differs depending on the print resolution (600 dpi: 0.0423 mm, 1200 dpi: 0.0212 mm).
Amount of Change per Unit		1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > BLANK

BLANK-R	1	Adjustment of right edge margin
Detail		To adjust the margin on the right edge of paper. As the value is incremented by 1, the margin is increased toward the center of the paper by 1 pixel.
Use Case		- Upon user's request (to reduce the margin) - When increasing the margin for transfer separation/fixing separation
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 1000
Unit		pixel
Default Value		59
Supplement/Memo		The length of a pixel differs depending on the print resolution (600 dpi: 0.0423 mm, 1200 dpi: 0.0212 mm).
Amount of Change per Unit		1
BLANK-B	1	Adjustment of trailing edge margin
Detail		To adjust the margin on the trailing edge of paper. As the value is incremented by 1, the margin is increased toward the center of the paper by 1 pixel.
Use Case		- Upon user's request (to reduce the margin) - When increasing the margin for transfer separation/fixing separation
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 1000
Unit		pixel
Default Value		59
Supplement/Memo		The length of a pixel differs depending on the print resolution (600 dpi: 0.0423 mm, 1200 dpi: 0.0212 mm).
Amount of Change per Unit		1

■ V-CONT

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > V-CONT

VCONT-Y	2	Adj of Y-color contrast potential
Detail		To adjust the contrast potential Vcont for Y-color. As the value is changed by 1, the contrast potential is changed by 10 V. +: Image becomes darker. -: Image becomes lighter. When the value is too large, paper winds around the Fixing Roller or a transfer failure occurs. In principle, adjustment of the density should be made by auto gradation adjustment (full adjustment). However, if the adjustment cannot be executed, use this item as a temporary measure.
Use Case		When density is not appropriate even though auto gradation adjustment (full adjustment) is executed
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by -/+ key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Execute auto gradation adjustment (full adjustment).
Caution		Do not use this when the machine is operating correctly.
Display/Adj/Set Range		-20 to 20
Unit		V
Default Value		0
Related Service Mode		COPIER> ADJUST> V-CONT> VCONT-M/C/K
Additional Functions Mode		Adjustment/Maintenance> Adjust Image Quality> Auto Adjust Gradation> Full Adjust
Amount of Change per Unit		10

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > V-CONT

VCONT-M	2	Adj of M-color contrast potential
Detail		To adjust the contrast potential Vcont for M-color. As the value is changed by 1, the contrast potential is changed by 10 V. +: Image becomes darker. -: Image becomes lighter. When the value is too large, paper winds around the Fixing Roller or a transfer failure occurs. In principle, adjustment of the density should be made by auto gradation adjustment (full adjustment). However, if the adjustment cannot be executed, use this item as a temporary measure.
Use Case		When density is not appropriate even though auto gradation adjustment (full adjustment) is executed
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Execute auto gradation adjustment (full adjustment).
Caution		Do not use this when the machine is operating correctly.
Display/Adj/Set Range		-20 to 20
Unit		V
Default Value		0
Related Service Mode		COPIER> ADJUST> V-CONT> VCONT-Y/C/K
Additional Functions Mode		Adjustment/Maintenance> Adjust Image Quality> Auto Adjust Gradation> Full Adjust
Amount of Change per Unit		10
VCONT-C	2	Adj of C-color contrast potential
Detail		To adjust the contrast potential Vcont for C-color. As the value is changed by 1, the contrast potential is changed by 10 V. +: Image becomes darker. -: Image becomes lighter. When the value is too large, paper winds around the Fixing Roller or a transfer failure occurs. In principle, adjustment of the density should be made by auto gradation adjustment (full adjustment). However, if the adjustment cannot be executed, use this item as a temporary measure.
Use Case		When density is not appropriate even though auto gradation adjustment (full adjustment) is executed
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Execute auto gradation adjustment (full adjustment).
Caution		Do not use this when the machine is operating correctly.
Display/Adj/Set Range		-20 to 20
Unit		V
Default Value		0
Related Service Mode		COPIER> ADJUST> V-CONT> VCONT-Y/M/K
Additional Functions Mode		Adjustment/Maintenance> Adjust Image Quality> Auto Adjust Gradation> Full Adjust
Amount of Change per Unit		10

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > V-CONT

VCONT-K	2	Adj of Bk-color contrast potential
Detail	<p>To adjust the contrast potential Vcont for Bk-color. As the value is changed by 1, the contrast potential is changed by 10 V. +: Image becomes darker. -: Image becomes lighter. When the value is too large, paper winds around the Fixing Roller or a transfer failure occurs. In principle, adjustment of the density should be made by auto gradation adjustment (full adjustment). However, if the adjustment cannot be executed, use this item as a temporary measure.</p>	
Use Case	When density is not appropriate even though auto gradation adjustment (full adjustment) is executed	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Execute auto gradation adjustment (full adjustment).	
Caution	Do not use this when the machine is operating correctly.	
Display/Adj/Set Range	-20 to 20	
Unit	V	
Default Value	0	
Related Service Mode	COPIER> ADJUST> V-CONT> VCONT-Y/M/C	
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Auto Adjust Gradation> Full Adjust	
Amount of Change per Unit	10	
VBACK-Y	2	Adj Y-color fogging removal potential
Detail	<p>To adjust the offset of the fogging removal potential Vback for Y-color. A value obtained by adding the value adjusted in [Correct Color Cast] in [Settings/Registration] to the setting value of this item is applied as the correction value. As the value is changed by 1, the fogging removal potential is changed by 5 V. +: Fogging, blanking of image edge, and carrier adherence are alleviated. -: Coarseness, blanking of image edge, and carrier adherence are alleviated.</p>	
Use Case	When Y-color fogging occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Execute auto gradation adjustment (full adjustment).	
Caution	Do not use this when the machine is operating correctly.	
Display/Adj/Set Range	-10 to 10	
Unit	V	
Default Value	0	
Related Service Mode	COPIER> ADJUST> V-CONT> VBACK-M/C/K	
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Correct Color Cast Adjustment/Maintenance> Adjust Image Quality> Auto Adjust Gradation> Full Adjust	
Amount of Change per Unit	5	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > V-CONT

VBACK-M	2	Adj M-color fogging removal potential
Detail	To adjust the offset of the fogging removal potential Vback for M-color. A value obtained by adding the value adjusted in [Correct Color Cast] in [Settings/Registration] to the setting value of this item is applied as the correction value. As the value is changed by 1, the fogging removal potential is changed by 5 V. +: Fogging, blanking of image edge, and carrier adherence are alleviated. -: Coarseness, blanking of image edge, and carrier adherence are alleviated.	
Use Case	When M-color fogging occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Execute auto gradation adjustment (full adjustment).	
Caution	Do not use this when the machine is operating correctly.	
Display/Adj/Set Range	-10 to 10	
Unit	V	
Default Value	0	
Related Service Mode	COPIER> ADJUST> V-CONT> VBACK-Y/C/K	
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Correct Color Cast Adjustment/Maintenance> Adjust Image Quality> Auto Adjust Gradation> Full Adjust	
Amount of Change per Unit	5	
VBACK-C	2	Adj C-color fogging removal potential
Detail	To adjust the offset of the fogging removal potential Vback for C-color. A value obtained by adding the value adjusted in [Correct Color Cast] in [Settings/Registration] to the setting value of this item is applied as the correction value. As the value is changed by 1, the fogging removal potential is changed by 5 V. +: Fogging, blanking of image edge, and carrier adherence are alleviated. -: Coarseness, blanking of image edge, and carrier adherence are alleviated.	
Use Case	When C-color fogging occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Execute auto gradation adjustment (full adjustment).	
Caution	Do not use this when the machine is operating correctly.	
Display/Adj/Set Range	-10 to 10	
Unit	V	
Default Value	0	
Related Service Mode	COPIER> ADJUST> V-CONT> VBACK-Y/M/K	
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Correct Color Cast Adjustment/Maintenance> Adjust Image Quality> Auto Adjust Gradation> Full Adjust	
Amount of Change per Unit	5	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > V-CONT

VBACK-K	2	Adj Bk-color fogging removal potential
Detail		To adjust the offset of the fogging removal potential Vback for Bk-color. A value obtained by adding the value adjusted in [Correct Color Cast] in [Settings/Registration] to the setting value of this item is applied as the correction value. As the value is changed by 1, the fogging removal potential is changed by 5 V. +: Fogging, blanking of image edge, and carrier adherence are alleviated. -: Coarseness, blanking of image edge, and carrier adherence are alleviated.
Use Case		When Bk-color fogging occurs
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Execute auto gradation adjustment (full adjustment).
Caution		Do not use this when the machine is operating correctly.
Display/Adj/Set Range		-10 to 10
Unit		V
Default Value		0
Related Service Mode		COPIER> ADJUST> V-CONT> VBACK-Y/M/C
Additional Functions Mode		Adjustment/Maintenance> Adjust Image Quality> Correct Color Cast Adjustment/Maintenance> Adjust Image Quality> Auto Adjust Gradation> Full Adjust
Amount of Change per Unit		5

■ PASCAL

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > PASCAL

OFST-P-Y	1	Y density adj at test print reading
Detail		To adjust the offset of Y-color test print reading signal at auto gradation adjustment (full adjustment). When replacing the Reader Controller PCB/clearing RAM data, enter the value of service label. As the value is larger, the image after adjustment gets darker.
Use Case		When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-128 to 128
Default Value		According to the adjustment value of the Reader at factory shipment
Amount of Change per Unit		1
OFST-P-M	1	M density adj at test print reading
Detail		To adjust the offset of M-color test print reading signal at auto gradation adjustment (full adjustment). When replacing the Reader Controller PCB/clearing RAM data, enter the value of service label. As the value is larger, the image after adjustment gets darker.
Use Case		When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Caution		After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range		-128 to 128
Default Value		According to the adjustment value of the Reader at factory shipment
Amount of Change per Unit		1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > PASCAL

OFST-P-C	1	C density adj at test print reading
Detail		To adjust the offset of C-color test print reading signal at auto gradation adjustment (full adjustment). When replacing the Reader Controller PCB/clearing RAM data, enter the value of service label. As the value is larger, the image after adjustment gets darker.
Use Case		When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Caution		After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range		-128 to 128
Default Value		According to the adjustment value of the Reader at factory shipment
Amount of Change per Unit		1

OFST-P-K	1	Bk density adj at test print reading
Detail		To adjust the offset of Bk-color test print reading signal at auto gradation adjustment (full adjustment). When replacing the Reader Controller PCB/clearing RAM data, enter the value of service label. As the value is larger, the image after adjustment gets darker.
Use Case		When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Caution		After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range		-128 to 128
Default Value		According to the adjustment value of the Reader at factory shipment
Amount of Change per Unit		1

■ COLOR

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > COLOR

ADJ-Y	1	Adjustment of color balance for Y-color
Detail		To adjust the default value of the color balance for Y-color when the density of Y-color varies between devices. As the value is larger, the image gets darker. If the value is too large, a transfer failure and/or a fixing failure occurs.
Use Case		Upon user's request (to reduce density difference between devices)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-8 to 8
Default Value		0

ADJ-M	1	Adjustment of color balance for M-color
Detail		To adjust the default value of the color balance for M-color when the density of M-color varies between devices. As the value is larger, the image gets darker. If the value is too large, a transfer failure and/or a fixing failure occurs.
Use Case		Upon user's request (to reduce density difference between devices)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-8 to 8
Default Value		0

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > COLOR

ADJ-C	1	Adjustment of color balance for C-color
Detail	To adjust the default value of the color balance for C-color when the density of C-color varies between devices. As the value is larger, the image gets darker. If the value is too large, a transfer failure and/or a fixing failure occurs.	
Use Case	Upon user's request (to reduce density difference between devices)	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
ADJ-K	1	Adjustment of color balance for Bk-color
Detail	To adjust the default value of the color balance for Bk-color when the density of Bk-color varies between devices. As the value is larger, the image gets darker. If the value is too large, a transfer failure and/or a fixing failure occurs.	
Use Case	Upon user's request (to reduce density difference between devices)	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
OFST-Y	1	Adj Y-clr brit area dens&color balance
Detail	To adjust the bright area density and color balance of Y-color. As the value is larger, the image gets darker. Decrease the value when the background cannot be read correctly because the density of a document is dark and increase the value when the density of a document is light. Decrease the value when removal of the background is not performed correctly and a fogging-like image appears. This setting is linked with [Correct Density], [Correct Shading] and [Auto Correct Color Mismatch] in [Settings/Registration].	
Use Case	- When the background of a document cannot be read correctly - When removal of the background cannot be performed correctly and a fogging-like image appears	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-32 to 32	
Default Value	0	
OFST-M	1	Adj M-clr brit area dens&color balance
Detail	To adjust the bright area density and color balance of M-color. As the value is larger, the image gets darker. Decrease the value when the background cannot be read correctly because the density of a document is dark and increase the value when the density of a document is light. Decrease the value when removal of the background is not performed correctly and a fogging-like image appears. This setting is linked with [Correct Density], [Correct Shading] and [Auto Correct Color Mismatch] in [Settings/Registration].	
Use Case	- When the background of a document cannot be read correctly - When removal of the background cannot be performed correctly and a fogging-like image appears	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-32 to 32	
Default Value	0	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > COLOR

OFST-C	1	Adj C-clr brit area dens&color balance
Detail	<p>To adjust the bright area density and color balance of C-color. As the value is larger, the image gets darker. Decrease the value when the background cannot be read correctly because the density of a document is dark and increase the value when the density of a document is light. Decrease the value when removal of the background is not performed correctly and a fogging-like image appears. This setting is linked with [Correct Density], [Correct Shading] and [Auto Correct Color Mismatch] in [Settings/Registration].</p>	
Use Case	<p>- When the background of a document cannot be read correctly - When removal of the background cannot be performed correctly and a fogging-like image appears</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-32 to 32	
Default Value	0	
OFST-K	1	Adj Bk-clr brit area dens&color balance
Detail	<p>To adjust the bright area density and color balance of Bk-color. As the value is larger, the image gets darker. Decrease the value when the background cannot be read correctly because the density of a document is dark and increase the value when the density of a document is light. Decrease the value when removal of the background is not performed correctly and a fogging-like image appears. This setting is linked with [Correct Density], [Correct Shading] and [Auto Correct Color Mismatch] in [Settings/Registration].</p>	
Use Case	<p>- When the background of a document cannot be read correctly - When removal of the background cannot be performed correctly and a fogging-like image appears</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-32 to 32	
Default Value	0	
LD-OFS-Y	2	Adj Y low dens area clr balance: copy
Detail	<p>To adjust the color balance of the low density area of Y-color for copy operation. As the value is larger, the image gets darker. A value obtained by adding the value adjusted in [Fine Adjust Density] in the main menu to the setting value of this item is applied as the actual density value. e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1". Note that the density value must be within the range from -8 to 8. e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage. In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > COLOR

LD-OFS-M	2	Adj M low dens area clr balance: copy
Detail		To adjust the color balance of the low density area of M-color for copy operation. As the value is larger, the image gets darker. A value obtained by adding the value adjusted in [Fine Adjust Density] in the main menu to the setting value of this item is applied as the actual density value. e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1". Note that the density value must be within the range from -8 to 8. e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-8 to 8
Default Value		0
Additional Functions Mode		Copy> Options> Color Balance> Fine Adjust Density Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density
Supplement/Memo		In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage. In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.
LD-OFS-C	2	Adj C low dens area clr balance: copy
Detail		To adjust the color balance of the low density area of C-color for copy operation. As the value is larger, the image gets darker. A value obtained by adding the value adjusted in [Fine Adjust Density] in the main menu to the setting value of this item is applied as the actual density value. e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1". Note that the density value must be within the range from -8 to 8. e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-8 to 8
Default Value		0
Additional Functions Mode		Copy> Options> Color Balance> Fine Adjust Density Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density
Supplement/Memo		In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage. In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > COLOR

LD-OFS-K	2	Adj Bk low dens area clr balance: copy
Detail	<p>To adjust the color balance of the low density area of Bk-color for copy operation. As the value is larger, the image gets darker.</p> <p>A value obtained by adding the value adjusted in [Fine Adjust Density] in the main menu to the setting value of this item is applied as the actual density value.</p> <p>e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1".</p> <p>Note that the density value must be within the range from -8 to 8.</p> <p>e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density</p> <p>Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density</p> <p>Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density</p> <p>Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage.</p> <p>In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	
MD-OFS-Y	2	Adj Y mid dens area clr balance: copy
Detail	<p>To adjust the color balance of the medium density area of Y-color for copy operation. As the value is larger, the image gets darker.</p> <p>A value obtained by adding the value adjusted in [Fine Adjust Density] in the main menu to the setting value of this item is applied as the actual density value.</p> <p>e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1".</p> <p>Note that the density value must be within the range from -8 to 8.</p> <p>e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density</p> <p>Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density</p> <p>Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density</p> <p>Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage.</p> <p>In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > COLOR

MD-OFS-M	2	Adj M mid dens area clr balance: copy
Detail	<p>To adjust the color balance of the medium density area of M-color for copy operation. As the value is larger, the image gets darker.</p> <p>A value obtained by adding the value adjusted in [Fine Adjust Density] in the main menu to the setting value of this item is applied as the actual density value.</p> <p>e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1".</p> <p>Note that the density value must be within the range from -8 to 8.</p> <p>e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density</p> <p>Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density</p> <p>Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density</p> <p>Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage.</p> <p>In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	
MD-OFS-C	2	Adj C mid dens area clr balance: copy
Detail	<p>To adjust the color balance of the medium density area of C-color for copy operation. As the value is larger, the image gets darker.</p> <p>A value obtained by adding the value adjusted in [Fine Adjust Density] in the main menu to the setting value of this item is applied as the actual density value.</p> <p>e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1".</p> <p>Note that the density value must be within the range from -8 to 8.</p> <p>e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density</p> <p>Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density</p> <p>Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density</p> <p>Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage.</p> <p>In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > COLOR

MD-OFS-K	2	Adj Bk mid dens area clr balance: copy
Detail	<p>To adjust the color balance of the medium density area of Bk-color for copy operation. As the value is larger, the image gets darker.</p> <p>A value obtained by adding the value adjusted in [Fine Adjust Density] in the main menu to the setting value of this item is applied as the actual density value.</p> <p>e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1".</p> <p>Note that the density value must be within the range from -8 to 8.</p> <p>e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density</p> <p>Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density</p> <p>Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density</p> <p>Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage.</p> <p>In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	
HD-OFS-Y	2	Adj Y hi dens area clr balance: copy
Detail	<p>To adjust the color balance of the high density area of Y-color for copy operation. As the value is larger, the image gets darker.</p> <p>A value obtained by adding the value adjusted in [Fine Adjust Density] in the main menu to the setting value of this item is applied as the actual density value.</p> <p>e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1".</p> <p>Note that the density value must be within the range from -8 to 8.</p> <p>e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density</p> <p>Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density</p> <p>Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density</p> <p>Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage.</p> <p>In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > COLOR

HD-OFS-M	2	Adj M hi dens area clr balance: copy
Detail	<p>To adjust the color balance of the high density area of M-color for copy operation. As the value is larger, the image gets darker.</p> <p>A value obtained by adding the value adjusted in [Fine Adjust Density] in the main menu to the setting value of this item is applied as the actual density value.</p> <p>e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1".</p> <p>Note that the density value must be within the range from -8 to 8.</p> <p>e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density</p> <p>Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density</p> <p>Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density</p> <p>Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage.</p> <p>In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	
HD-OFS-C	2	Adj C hi dens area clr balance: copy
Detail	<p>To adjust the color balance of the high density area of C-color for copy operation. As the value is larger, the image gets darker.</p> <p>A value obtained by adding the value adjusted in [Fine Adjust Density] in the main menu to the setting value of this item is applied as the actual density value.</p> <p>e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1".</p> <p>Note that the density value must be within the range from -8 to 8.</p> <p>e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density</p> <p>Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density</p> <p>Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density</p> <p>Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage.</p> <p>In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > COLOR

HD-OFS-K	2	Adj Bk hi dens area clr balance: copy
Detail	<p>To adjust the color balance of the high density area of Bk-color for copy operation. As the value is larger, the image gets darker. A value obtained by adding the value adjusted in [Fine Adjust Density] in the main menu to the setting value of this item is applied as the actual density value. e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1". Note that the density value must be within the range from -8 to 8. e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage. In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	
PL-OFS-Y	2	Adj Y-clr low dens area clr balance: PDL
Detail	<p>To adjust the color balance of the low density area of Y-color at PDL print. As the value is larger, the image gets darker. In case of data generated by the printer driver and stored in Mail Box, a value obtained by adding the value adjusted in [Fine Adjust Density] in [Access Stored Files] to the setting value of this item is applied as the actual density value. e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1". Note that the density value must be within the range from -8 to 8. e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage. In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > COLOR

PL-OFS-M	2	Adj M-clr low dens area clr balance: PDL
Detail	<p>To adjust the color balance of the low density area of M-color at PDL print. As the value is larger, the image gets darker. In case of data generated by the printer driver and stored in Mail Box, a value obtained by adding the value adjusted in [Fine Adjust Density] in [Access Stored Files] to the setting value of this item is applied as the actual density value. e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1". Note that the density value must be within the range from -8 to 8. e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage. In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	
PL-OFS-C	2	Adj C-clr low dens area clr balance: PDL
Detail	<p>To adjust the color balance of the low density area of C-color at PDL print. As the value is larger, the image gets darker. In case of data generated by the printer driver and stored in Mail Box, a value obtained by adding the value adjusted in [Fine Adjust Density] in [Access Stored Files] to the setting value of this item is applied as the actual density value. e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1". Note that the density value must be within the range from -8 to 8. e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage. In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > COLOR

PL-OFS-K	2	Adj Bk-clr low dens area clr balance:PDL
Detail	<p>To adjust the color balance of the low density area of Bk-color at PDL print. As the value is larger, the image gets darker. In case of data generated by the printer driver and stored in Mail Box, a value obtained by adding the value adjusted in [Fine Adjust Density] in [Access Stored Files] to the setting value of this item is applied as the actual density value. e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1". Note that the density value must be within the range from -8 to 8. e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage. In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	
PM-OFS-Y	2	Adj Y-clr mid dens area clr balance: PDL
Detail	<p>To adjust the color balance of the medium density area of Y-color at PDL print. As the value is larger, the image gets darker. In case of data generated by the printer driver and stored in Mail Box, a value obtained by adding the value adjusted in [Fine Adjust Density] in [Access Stored Files] to the setting value of this item is applied as the actual density value. e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1". Note that the density value must be within the range from -8 to 8. e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage. In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > COLOR

PM-OFS-M	2	Adj M-clr mid dens area clr balance: PDL
Detail	<p>To adjust the color balance of the medium density area of M-color at PDL print. As the value is larger, the image gets darker.</p> <p>In case of data generated by the printer driver and stored in Mail Box, a value obtained by adding the value adjusted in [Fine Adjust Density] in [Access Stored Files] to the setting value of this item is applied as the actual density value. e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1".</p> <p>Note that the density value must be within the range from -8 to 8. e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage.</p> <p>In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	
PM-OFS-C	2	Adj C-clr mid dens area clr balance: PDL
Detail	<p>To adjust the color balance of the medium density area of C-color at PDL print. As the value is larger, the image gets darker.</p> <p>In case of data generated by the printer driver and stored in Mail Box, a value obtained by adding the value adjusted in [Fine Adjust Density] in [Access Stored Files] to the setting value of this item is applied as the actual density value. e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1".</p> <p>Note that the density value must be within the range from -8 to 8. e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage.</p> <p>In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > COLOR

PM-OFS-K	2	Adj Bk-clr mid dens area clr balance:PDL
Detail	<p>To adjust the color balance of the medium density area of Bk-color at PDL print. As the value is larger, the image gets darker.</p> <p>In case of data generated by the printer driver and stored in Mail Box, a value obtained by adding the value adjusted in [Fine Adjust Density] in [Access Stored Files] to the setting value of this item is applied as the actual density value. e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1".</p> <p>Note that the density value must be within the range from -8 to 8. e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage.</p> <p>In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	
PH-OFS-Y	2	Adj Y-clr hi dens area clr balance: PDL
Detail	<p>To adjust the color balance of the high density area of Y-color at PDL print. As the value is larger, the image gets darker.</p> <p>In case of data generated by the printer driver and stored in Mail Box, a value obtained by adding the value adjusted in [Fine Adjust Density] in [Access Stored Files] to the setting value of this item is applied as the actual density value. e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1".</p> <p>Note that the density value must be within the range from -8 to 8. e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage.</p> <p>In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > COLOR

PH-OFS-M	2	Adj M-clr hi dens area clr balance: PDL
Detail	<p>To adjust the color balance of the high density area of M-color at PDL print. As the value is larger, the image gets darker.</p> <p>In case of data generated by the printer driver and stored in Mail Box, a value obtained by adding the value adjusted in [Fine Adjust Density] in [Access Stored Files] to the setting value of this item is applied as the actual density value. e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1".</p> <p>Note that the density value must be within the range from -8 to 8. e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage.</p> <p>In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	
PH-OFS-C	2	Adj C-clr hi dens area clr balance: PDL
Detail	<p>To adjust the color balance of the high density area of C-color at PDL print. As the value is larger, the image gets darker.</p> <p>In case of data generated by the printer driver and stored in Mail Box, a value obtained by adding the value adjusted in [Fine Adjust Density] in [Access Stored Files] to the setting value of this item is applied as the actual density value. e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1".</p> <p>Note that the density value must be within the range from -8 to 8. e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-8 to 8	
Default Value	0	
Additional Functions Mode	<p>Copy> Options> Color Balance> Fine Adjust Density Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density</p>	
Supplement/Memo	<p>In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage.</p> <p>In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.</p>	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > COLOR

PH-OFS-K	2	Adj Bk-clr hi dens area clr balance: PDL
Detail		To adjust the color balance of the high density area of Bk-color at PDL print. As the value is larger, the image gets darker. In case of data generated by the printer driver and stored in Mail Box, a value obtained by adding the value adjusted in [Fine Adjust Density] in [Access Stored Files] to the setting value of this item is applied as the actual density value. e.g.: When the value of this item is "-4" and the value of [Fine Adjust Density] is "5", the density value is "1". Note that the density value must be within the range from -8 to 8. e.g.: When the value of this item is "7" and the value of [Fine Adjust Density] is "5", the density value is "8".
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-8 to 8
Default Value		0
Additional Functions Mode		Copy> Options> Color Balance> Fine Adjust Density Access Stored Files> Mail Box> Print> Change Print Settings> Options> Color Balance> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Non-Coated> Fine Adjust Density Adjustment/Maintenance> Adjust Image Quality> Color Balance> Coated> Fine Adjust Density
Supplement/Memo		In [Fine Adjust Density] in [Adjustment/Maintenance], the same value is set as the density for copy operation and file storage. In [Fine Adjust Density] under [Copy] and [Access Stored Files] in the main menu, the density value can be set individually. Although the setting value of this item is just one value, the density may differ for copy operation and file storage.

■ HV-PRI

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-PRI

DIS-TGY	2	Discharge crrnt ctrl Y tgt crrnt: H-SPD
Detail		To adjust the offset of the target current of discharge current control for Y-color at high process speed. As the value is changed by 1, the current is changed by 5 micro A.
Use Case		When an image failure (sand-like image) occurs
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Caution		- Use OFSTAC-Y only when an image failure is not alleviated with DIS-TGY. In such case, be sure to change the setting value of this item back to the original one. If both the settings are enabled, an over discharge occurs. - Do not use this item if adjustment has been made with OFSTAC-Y first.
Display/Adj/Set Range		-10 to 10
Unit		uA
Default Value		0
Related Service Mode		COPIER> ADJUST> HV-PRI> OFSTAC-Y
Amount of Change per Unit		5

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-PRI

DIS-TGM	2	Discharge crrent ctrl M tgt crrent: H-SPD
Detail	To adjust the offset of the target current of discharge current control for M-color at high process speed. As the value is changed by 1, the current is changed by 5 micro A.	
Use Case	When an image failure (sand-like image) occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	- Use OFSTAC-M only when an image failure is not alleviated with DIS-TGM. In such case, be sure to change the setting value of this item back to the original one. If both the settings are enabled, an over discharge occurs. - Do not use this item if adjustment has been made with OFSTAC-M first.	
Display/Adj/Set Range	-10 to 10	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> ADJUST> HV-PRI> OFSTAC-M	
Amount of Change per Unit	5	
DIS-TGC	2	Discharge crrent ctrl C tgt crrent: H-SPD
Detail	To adjust the offset of the target current of discharge current control for C-color at high process speed. As the value is changed by 1, the current is changed by 5 micro A.	
Use Case	When an image failure (sand-like image) occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	- Use OFSTAC-C only when an image failure is not alleviated with DIS-TGC. In such case, be sure to change the setting value of this item back to the original one. If both the settings are enabled, an over discharge occurs. - Do not use this item if adjustment has been made with OFSTAC-C first.	
Display/Adj/Set Range	-10 to 10	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> ADJUST> HV-PRI> OFSTAC-C	
Amount of Change per Unit	5	
DIS-TGK	2	Discharge crrent ctrl Bk tgt crrent: H-SPD
Detail	To adjust the offset of the target current of discharge current control for Bk-color at high process speed. As the value is changed by 1, the current is changed by 5 micro A.	
Use Case	When an image failure (sand-like image) occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	- Use OFSTAC-K only when an image failure is not alleviated with DIS-TGK. In such case, be sure to change the setting value of this item back to the original one. If both the settings are enabled, an over discharge occurs. - Do not use this item if adjustment has been made with OFSTAC-K first.	
Display/Adj/Set Range	-10 to 10	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> ADJUST> HV-PRI> OFSTAC-K	
Amount of Change per Unit	5	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-PRI

DIS-TGY2	2	Discharge crrent ctrl Y tgt crrent: L-SPD
Detail	To adjust the offset of the target current of discharge current control for Y-color at low process speed. As the value is changed by 1, the current is changed by 5 micro A.	
Use Case	When an image failure (sand-like image) occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	- Use OFSTACY2 only when an image failure is not alleviated with DIS-TGY2. In such case, be sure to change the setting value of this item back to the original one. If both the settings are enabled, an over discharge occurs. - Do not use this item if adjustment has been made with OFSTACY2 first.	
Display/Adj/Set Range	-10 to 10	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> ADJUST> HV-PRI> OFSTACY2	
Amount of Change per Unit	5	
DIS-TGM2	2	Discharge crrent ctrl M tgt crrent: L-SPD
Detail	To adjust the offset of the target current of discharge current control for M-color at low process speed. As the value is changed by 1, the current is changed by 5 micro A.	
Use Case	When an image failure (sand-like image) occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	- Use OFSTACM2 only when an image failure is not alleviated with DIS-TGM2. In such case, be sure to change the setting value of this item back to the original one. If both the settings are enabled, an over discharge occurs. - Do not use this item if adjustment has been made with OFSTACM2 first.	
Display/Adj/Set Range	-10 to 10	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> ADJUST> HV-PRI> OFSTACM2	
Amount of Change per Unit	5	
DIS-TGC2	2	Discharge crrent ctrl C tgt crrent: L-SPD
Detail	To adjust the offset of the target current of discharge current control for C-color at low process speed. As the value is changed by 1, the current is changed by 5 micro A.	
Use Case	When an image failure (sand-like image) occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	- Use OFSTACC2 only when an image failure is not alleviated with DIS-TGC2. In such case, be sure to change the setting value of this item back to the original one. If both the settings are enabled, an over discharge occurs. - Do not use this item if adjustment has been made with OFSTACC2 first.	
Display/Adj/Set Range	-10 to 10	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> ADJUST> HV-PRI> OFSTACC2	
Amount of Change per Unit	5	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-PRI

DIS-TGK2	2	Discharge crrent ctrl Bk tgt crrent: L-SPD
Detail	To adjust the offset of the target current of discharge current control for Bk-color at low process speed. As the value is changed by 1, the current is changed by 5 micro A.	
Use Case	When an image failure (sand-like image) occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	- Use OFSTACK2 only when an image failure is not alleviated with DIS-TGK2. In such case, be sure to change the setting value of this item back to the original one. If both the settings are enabled, an over discharge occurs. - Do not use this item if adjustment has been made with OFSTACK2 first.	
Display/Adj/Set Range	-10 to 10	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> ADJUST> HV-PRI> OFSTACK2	
Amount of Change per Unit	5	
OFSTAC-Y	1	Adj Y-color charging AC voltage: H-SPD
Detail	To adjust the offset of the charging AC voltage for Y-color at high process speed. The setting is applied to paper which paper weight is 128 g/m2 or less (excluding coated paper). As the value is changed by 1, the voltage is changed by 20 Vpp. Decrease the value when image smear occurs, and increase the value when an image failure (sand-like image) occurs.	
Use Case	- When image smear occurs - When an image failure (sand-like image) occurs	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Caution	- Use OFSTAC-Y only when an image failure is not alleviated with DIS-TGY. In such case, be sure to change the setting value of DIS-TGY back to the original one. If both the settings are enabled, an over discharge occurs. - If the value is too large, the life of the Photosensitive Drum becomes shorter.	
Display/Adj/Set Range	-20 to 20	
Unit	V	
Default Value	0	
Related Service Mode	COPIER> ADJUST> HV-PRI> DIS-TGY	
Amount of Change per Unit	20	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-PRI

OFSTAC-M	1	Adj M-color charging AC voltage: H-SPD
Detail		To adjust the offset of the charging AC voltage for M-color at high process speed. The setting is applied to paper which paper weight is 128 g/m ² or less (excluding coated paper). As the value is changed by 1, the voltage is changed by 20 Vpp. Decrease the value when image smear occurs, and increase the value when an image failure (sand-like image) occurs.
Use Case		- When image smear occurs - When an image failure (sand-like image) occurs
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Caution		- Use OFSTAC-M only when an image failure is not alleviated with DIS-TGM. In such case, be sure to change the setting value of DIS-TGM back to the original one. If both the settings are enabled, an over discharge occurs. - If the value is too large, the life of the Photosensitive Drum becomes shorter.
Display/Adj/Set Range		-20 to 20
Unit		V
Default Value		0
Related Service Mode		COPIER> ADJUST> HV-PRI> DIS-TGM
Amount of Change per Unit		20
OFSTAC-C	1	Adj C-color charging AC voltage: H-SPD
Detail		To adjust the offset of the charging AC voltage for C-color at high process speed. The setting is applied to paper which paper weight is 128 g/m ² or less (excluding coated paper). As the value is changed by 1, the voltage is changed by 20 Vpp. Decrease the value when image smear occurs, and increase the value when an image failure (sand-like image) occurs.
Use Case		- When image smear occurs - When an image failure (sand-like image) occurs
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Caution		- Use OFSTAC-C only when an image failure is not alleviated with DIS-TGC. In such case, be sure to change the setting value of DIS-TGC back to the original one. If both the settings are enabled, an over discharge occurs. - If the value is too large, the life of the Photosensitive Drum becomes shorter.
Display/Adj/Set Range		-20 to 20
Unit		V
Default Value		0
Related Service Mode		COPIER> ADJUST> HV-PRI> DIS-TGC
Amount of Change per Unit		20

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-PRI

OFSTAC-K	1	Adj Bk-color charging AC voltage: H-SPD
Detail	To adjust the offset of the charging AC voltage for Bk-color at high process speed. The setting is applied to paper which paper weight is 128 g/m ² or less (excluding coated paper). As the value is changed by 1, the voltage is changed by 20 Vpp. Decrease the value when image smear occurs, and increase the value when an image failure (sand-like image) occurs.	
Use Case	- When image smear occurs - When an image failure (sand-like image) occurs	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Caution	- Use OFSTAC-K only when an image failure is not alleviated with DIS-TGK. In such case, be sure to change the setting value of DIS-TGK back to the original one. If both the settings are enabled, an over discharge occurs. - If the value is too large, the life of the Photosensitive Drum becomes shorter.	
Display/Adj/Set Range	-20 to 20	
Unit	V	
Default Value	0	
Related Service Mode	COPIER> ADJUST> HV-PRI> DIS-TGK	
Amount of Change per Unit	20	
OFSTACY2	1	Adj Y-color charging AC voltage: L-SPD
Detail	To adjust the offset of the charging AC voltage for Y-color at low process speed. The setting is applied to paper which paper weight is 129 g/m ² or more and coated paper. As the value is changed by 1, the voltage is changed by 20 Vpp. Decrease the value when image smear occurs, and increase the value when an image failure (sand-like image) occurs.	
Use Case	- When image smear occurs - When an image failure (sand-like image) occurs	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Caution	Use OFSTACY2 only when an image failure is not alleviated with DIS-TGY2. In such case, be sure to change the setting value of DIS-TGY2 back to the original one. If both the settings are enabled, an over discharge occurs.	
Display/Adj/Set Range	-20 to 20	
Unit	V	
Default Value	0	
Related Service Mode	COPIER> ADJUST> HV-PRI> DIS-TGY2	
Amount of Change per Unit	20	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-PRI

OFSTACM2	1	Adj M-color charging AC voltage: L-SPD
Detail		To adjust the offset of the charging AC voltage for M-color at low process speed. The setting is applied to paper which paper weight is 129 g/m2 or more and coated paper. As the value is changed by 1, the voltage is changed by 20 Vpp. Decrease the value when image smear occurs, and increase the value when an image failure (sand-like image) occurs.
Use Case		- When image smear occurs - When an image failure (sand-like image) occurs
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Caution		Use OFSTACM2 only when an image failure is not alleviated with DIS-TGM2. In such case, be sure to change the setting value of DIS-TGM2 back to the original one. If both the settings are enabled, an over discharge occurs.
Display/Adj/Set Range		-20 to 20
Unit		V
Default Value		0
Related Service Mode		COPIER> ADJUST> HV-PRI> DIS-TGM2
Amount of Change per Unit		20

OFSTACC2	1	Adj C-color charging AC voltage: L-SPD
Detail		To adjust the offset of the charging AC voltage for C-color at low process speed. The setting is applied to paper which paper weight is 129 g/m2 or more and coated paper. As the value is changed by 1, the voltage is changed by 20 Vpp. Decrease the value when image smear occurs, and increase the value when an image failure (sand-like image) occurs.
Use Case		- When image smear occurs - When an image failure (sand-like image) occurs
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Caution		Use OFSTACC2 only when an image failure is not alleviated with DIS-TGC2. In such case, be sure to change the setting value of DIS-TGC2 back to the original one. If both the settings are enabled, an over discharge occurs.
Display/Adj/Set Range		-20 to 20
Unit		V
Default Value		0
Related Service Mode		COPIER> ADJUST> HV-PRI> DIS-TGC2
Amount of Change per Unit		20

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-PRI

OFSTACK2	1	Adj Bk-color charging AC voltage: L-SPD
Detail	To adjust the offset of the charging AC voltage for Bk-color at low process speed. The setting is applied to paper which paper weight is 129 g/m ² or more and coated paper. As the value is changed by 1, the voltage is changed by 20 Vpp. Decrease the value when image smear occurs, and increase the value when an image failure (sand-like image) occurs.	
Use Case	- When image smear occurs - When an image failure (sand-like image) occurs	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Caution	Use OFSTACK2 only when an image failure is not alleviated with DIS-TGK2. In such case, be sure to change the setting value of DIS-TGK2 back to the original one. If both the settings are enabled, an over discharge occurs.	
Display/Adj/Set Range	-20 to 20	
Unit	V	
Default Value	0	
Related Service Mode	COPIER> ADJUST> HV-PRI> DIS-TGK2	
Amount of Change per Unit	20	

■ HV-TR

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-TR

1TR-TGY	2	Adj Y-clr pry trns ATVC tgt crnt: H-SPD
Detail	To adjust the target current of primary transfer ATVC control for Y-color at high process speed. Increase the value when low-voltage mottled image occurs, and decrease the value when fogging occurs (especially in the 94 mm portion of the image leading edge). By setting this item, primary transfer ATVC control is automatically executed during initial rotation for next image formation and the setting value is reflected.	
Use Case	When an image failure due to the primary transfer occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Execute 1ATVC-EX.	
Display/Adj/Set Range	-50 to 50	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> FUNCTION> MISC-P> 1ATVC-EX	
Amount of Change per Unit	1	
1TR-TGM	2	Adj M-clr pry trns ATVC tgt crnt: H-SPD
Detail	To adjust the target current of primary transfer ATVC control for M-color at high process speed. Increase the value when low-voltage mottled image occurs, and decrease the value when fogging occurs (especially in the 94 mm portion of the image leading edge). By setting this item, primary transfer ATVC control is automatically executed during initial rotation for next image formation and the setting value is reflected.	
Use Case	When an image failure due to the primary transfer occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Execute 1ATVC-EX.	
Display/Adj/Set Range	-50 to 50	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> FUNCTION> MISC-P> 1ATVC-EX	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-TR

1TR-TGC	2	Adj C-clr pry trns ATVC tgt crmnt: H-SPD
Detail	To adjust the target current of primary transfer ATVC control for C-color at high process speed. Increase the value when low-voltage mottled image occurs, and decrease the value when fogging occurs (especially in the 94 mm portion of the image leading edge). By setting this item, primary transfer ATVC control is automatically executed during initial rotation for next image formation and the setting value is reflected.	
Use Case	When an image failure due to the primary transfer occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Execute 1ATVC-EX.	
Display/Adj/Set Range	-50 to 50	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> FUNCTION> MISC-P> 1ATVC-EX	
Amount of Change per Unit	1	
1TR-TGK1	2	Adj sgl Bk pry trns ATVC tgt crmnt:H-SPD
Detail	To adjust the target current of primary transfer ATVC control for Bk-color at high process speed in black mode. Increase the value when low-voltage mottled image occurs, and decrease the value when fogging occurs (especially in the 94 mm portion of the image leading edge). By setting this item, primary transfer ATVC control is automatically executed during initial rotation for next image formation and the setting value is reflected.	
Use Case	When an image failure due to the primary transfer occurs in black mode	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Execute 1ATVC-EX.	
Display/Adj/Set Range	-50 to 50	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> FUNCTION> MISC-P> 1ATVC-EX	
Amount of Change per Unit	1	
1TR-TGKT	2	Adj clr Bk pry trns ATVC tgt crmnt:H-SPD
Detail	To adjust the target current of primary transfer ATVC control for Bk-color at high process speed in color mode. Increase the value when low-voltage mottled image occurs, and decrease the value when fogging occurs (especially in the 95 mm portion of the image leading edge). By setting this item, primary transfer ATVC control is automatically executed during initial rotation for next image formation and the setting value is reflected.	
Use Case	When an image failure due to the primary transfer occurs in color mode	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Execute 1ATVC-EX.	
Display/Adj/Set Range	-50 to 50	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> FUNCTION> MISC-P> 1ATVC-EX	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-TR

2TR-OFF	1	Uniform adj sec trn ATVC ppr allot voltg
Detail	To uniformly adjust paper allotted voltage in secondary transfer ATVC control regardless of paper type, 1st/2nd side or environment. When transfer failure occurs on an image, increase/decrease the value in the -30 to 30 (-900 to 900 V) range in increments of 10 (300 V). When white dots occur on an image, increase/decrease the value in the -100 to -10 (-3000 to -300 V) range in increments of 10 (300 V). When the value is decreased too much, transfer failure occurs.	
Use Case	When similar image failures occur regardless of the conditions	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Display/Adj/Set Range	-128 to 127	
Unit	V	
Default Value	0	
Amount of Change per Unit	30	
1TR-TGY2	2	Adj Y-clr pry trns ATVC tgt crrent: L-SPD
Detail	To adjust the target current of primary transfer ATVC control for Y-color at low process speed. Increase the value when low-voltage mottled image occurs, and decrease the value when fogging occurs (especially in the 95 mm portion of the image leading edge). By setting this item, primary transfer ATVC control is automatically executed during initial rotation for next image formation and the setting value is reflected.	
Use Case	When an image failure due to the primary transfer occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Execute 1ATVC-EX.	
Display/Adj/Set Range	-50 to 50	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> FUNCTION> MISC-P> 1ATVC-EX	
1TR-TGM2	2	Adj M-clr pry trns ATVC tgt crrent: L-SPD
Detail	To adjust the target current of primary transfer ATVC control for M-color at low process speed. Increase the value when low-voltage mottled image occurs, and decrease the value when fogging occurs (especially in the 95 mm portion of the image leading edge). By setting this item, primary transfer ATVC control is automatically executed during initial rotation for next image formation and the setting value is reflected.	
Use Case	When an image failure due to the primary transfer occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Execute 1ATVC-EX.	
Display/Adj/Set Range	-50 to 50	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> FUNCTION> MISC-P> 1ATVC-EX	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-TR

1TR-TGC2	2	Adj C-clr pry trns ATVC tgt crnt: L-SPD
Detail	To adjust the target current of primary transfer ATVC control for C-color at low process speed. Increase the value when low-voltage mottled image occurs, and decrease the value when fogging occurs (especially in the 95 mm portion of the image leading edge). By setting this item, primary transfer ATVC control is automatically executed during initial rotation for next image formation and the setting value is reflected.	
Use Case	When an image failure due to the primary transfer occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Execute 1ATVC-EX.	
Display/Adj/Set Range	-50 to 50	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> FUNCTION> MISC-P> 1ATVC-EX	
1TR-TK12	2	Adj sgl Bk pry trns ATVC tgt crnt:L-SPD
Detail	To adjust the target current of primary transfer ATVC control for Bk-color at low process speed in black mode. Increase the value when low-voltage mottled image occurs, and decrease the value when fogging occurs (especially in the 95 mm portion of the image leading edge). By setting this item, primary transfer ATVC control is automatically executed during initial rotation for next image formation and the setting value is reflected.	
Use Case	When an image failure due to the primary transfer occurs in black mode	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Execute 1ATVC-EX.	
Display/Adj/Set Range	-50 to 50	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> FUNCTION> MISC-P> 1ATVC-EX	
1TR-TGY3	2	Adj Y-clr pry trns ATVC tgt crnt: M-SPD
Detail	To adjust the target current of primary transfer ATVC control for Y-color at middle process speed. Increase the value when low-voltage mottled image occurs, and decrease the value when fogging occurs (especially in the 95 mm portion of the image leading edge). By setting this item, primary transfer ATVC control is automatically executed during initial rotation for next image formation and the setting value is reflected.	
Use Case	When an image failure due to the primary transfer occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Execute 1ATVC-EX.	
Caution	This item is enabled only when using heavy paper 1 (106 to 128 g/m ²) with 60-ppm machine.	
Display/Adj/Set Range	-50 to 50	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> FUNCTION> MISC-P> 1ATVC-EX	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-TR

1TR-TGM3	2	Adj M-clr pry trns ATVC tgt crmnt: M-SPD
Detail	To adjust the target current of primary transfer ATVC control for M-color at middle process speed. Increase the value when low-voltage mottled image occurs, and decrease the value when fogging occurs (especially in the 95 mm portion of the image leading edge). By setting this item, primary transfer ATVC control is automatically executed during initial rotation for next image formation and the setting value is reflected.	
Use Case	When an image failure due to the primary transfer occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Execute 1ATVC-EX.	
Caution	This item is enabled only when using heavy paper 1 (106 to 128 g/m ²) with 60-ppm machine.	
Display/Adj/Set Range	-50 to 50	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> FUNCTION> MISC-P> 1ATVC-EX	
1TR-TGC3	2	Adj C-clr pry trns ATVC tgt crmnt: M-SPD
Detail	To adjust the target current of primary transfer ATVC control for C-color at middle process speed. Increase the value when low-voltage mottled image occurs, and decrease the value when fogging occurs (especially in the 95 mm portion of the image leading edge). By setting this item, primary transfer ATVC control is automatically executed during initial rotation for next image formation and the setting value is reflected.	
Use Case	When an image failure due to the primary transfer occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Execute 1ATVC-EX.	
Caution	This item is enabled only when using heavy paper 1 (106 to 128 g/m ²) with 60-ppm machine.	
Display/Adj/Set Range	-50 to 50	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> FUNCTION> MISC-P> 1ATVC-EX	
1TR-TK13	2	Adj sgl Bk pry trns ATVC tgt crmnt:M-SPD
Detail	To adjust the target current of primary transfer ATVC control for Bk-color at middle process speed in black mode. Increase the value when low-voltage mottled image occurs, and decrease the value when fogging occurs (especially in the 95 mm portion of the image leading edge). By setting this item, primary transfer ATVC control is automatically executed during initial rotation for next image formation and the setting value is reflected.	
Use Case	When an image failure due to the primary transfer occurs in black mode	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Execute 1ATVC-EX.	
Caution	This item is enabled only when using heavy paper 1 (106 to 128 g/m ²) with 60-ppm machine.	
Display/Adj/Set Range	-50 to 50	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> FUNCTION> MISC-P> 1ATVC-EX	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-TR

1TR-TK42	2	Adj clr Bk pry trns ATVC tgt crrent:L-SPD
Detail	To adjust the target current of primary transfer ATVC control for Bk-color at low process speed in color mode. Increase the value when low-voltage mottled image occurs, and decrease the value when fogging occurs (especially in the 95 mm portion of the image leading edge). By setting this item, primary transfer ATVC control is automatically executed during initial rotation for next image formation and the setting value is reflected.	
Use Case	When an image failure due to the primary transfer occurs in color mode	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Execute 1ATVC-EX.	
Display/Adj/Set Range	-50 to 50	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> FUNCTION> MISC-P> 1ATVC-EX	
Amount of Change per Unit	2	
1TR-TK43	2	Adj clr Bk pry trns ATVC tgt crrent:M-SPD
Detail	To adjust the target current of primary transfer ATVC control for Bk-color at middle process speed in color mode. Increase the value when low-voltage mottled image occurs, and decrease the value when fogging occurs (especially in the 95 mm portion of the image leading edge). By setting this item, primary transfer ATVC control is automatically executed during initial rotation for next image formation and the setting value is reflected.	
Use Case	When an image failure due to the primary transfer occurs in color mode	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Execute 1ATVC-EX.	
Caution	This item is enabled only when using heavy paper 1 (106 to 128 g/m ²) with 60-ppm machine.	
Display/Adj/Set Range	-50 to 50	
Unit	uA	
Default Value	0	
Related Service Mode	COPIER> FUNCTION> MISC-P> 1ATVC-EX	
T2TR-LNG	2	Adj of lead edge weak bias apply length
Detail	To adjust the length (distance from the leading edge of paper) to apply leading edge weak bias. Increase the value when white spots occur in a broad area of the leading edge of paper.	
Use Case	When an image failure (white spots at the leading edge) occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this item only when an image failure occurs.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-TR

B2TR-LNG	2	Adj end edg weak bias apply lngth:sgl Bk
Detail	To adjust the length (distance from the trailing edge of paper) to apply trailing edge weak bias in single Bk-color mode. As the value is changed by 1, it is changed by 0.1 mm. Increase the value when white spots occur in a broad area of the trailing edge of paper.	
Use Case	When an image failure (white spots at the trailing edge) occurs in single Bk-color mode	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Caution	Use this item only when an image failure occurs.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
T2TR-H51	2	Adj of lead edge weak bias: heavy 5, 1st
Detail	To adjust the offset of the leading edge weak bias applied to the 1st side of heavy paper 5. As the value is changed by 1, the bias is changed by 30 V. Decrease the value if white spots occur. Increase the value if density on the leading edge of paper is low (transfer is weak).	
Use Case	When an image failure (white spots at the leading edge) occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this item only when an image failure occurs.	
Display/Adj/Set Range	-128 to 127	
Unit	V	
Default Value	0	
Amount of Change per Unit	30V	
T2TR-H52	2	Adj of lead edge weak bias: heavy 5, 2nd
Detail	To adjust the offset of the leading edge weak bias applied to the 2nd side of heavy paper 5. As the value is changed by 1, the bias is changed by 30 V. Decrease the value if white spots occur. Increase the value if density on the leading edge of paper is low (transfer is weak).	
Use Case	When an image failure (white spots at the leading edge) occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this item only when an image failure occurs.	
Display/Adj/Set Range	-128 to 127	
Unit	V	
Default Value	0	
Amount of Change per Unit	30V	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-TR

T2TR-H61	2	Adj of lead edge weak bias: heavy 6, 1st
Detail	To adjust the offset of the leading edge weak bias applied to the 1st side of heavy paper 6. As the value is changed by 1, the bias is changed by 30 V. Decrease the value if white spots occur. Increase the value if density on the leading edge of paper is low (transfer is weak).	
Use Case	When an image failure (white spots at the leading edge) occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this item only when an image failure occurs.	
Display/Adj/Set Range	-128 to 127	
Unit	V	
Default Value	0	
Amount of Change per Unit	30	
T2TR-H62	2	Adj of lead edge weak bias: heavy 6, 2nd
Detail	To adjust the offset of the leading edge weak bias applied to the 2nd side of heavy paper 6. As the value is changed by 1, the bias is changed by 30 V. Decrease the value if white spots occur. Increase the value if density on the leading edge of paper is low (transfer is weak).	
Use Case	When an image failure (white spots at the leading edge) occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this item only when an image failure occurs.	
Display/Adj/Set Range	-128 to 127	
Unit	V	
Default Value	0	
Amount of Change per Unit	30	
T2TR-H71	2	Adj of lead edge weak bias: heavy 7, 1st
Detail	To adjust the offset of the leading edge weak bias applied to the 1st side of heavy paper 7. As the value is changed by 1, the bias is changed by 30 V. Decrease the value if white spots occur. Increase the value if density on the leading edge of paper is low (transfer is weak).	
Use Case	When an image failure (white spots at the leading edge) occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this item only when an image failure occurs.	
Display/Adj/Set Range	-128 to 127	
Unit	V	
Default Value	0	
Amount of Change per Unit	30	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-TR

T2TR-H72	2	Adj of lead edge weak bias: heavy 7, 2nd
Detail	To adjust the offset of the leading edge weak bias applied to the 2nd side of heavy paper 7. As the value is changed by 1, the bias is changed by 30 V. Decrease the value if white spots occur. Increase the value if density on the leading edge of paper is low (transfer is weak).	
Use Case	When an image failure (white spots at the leading edge) occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this item only when an image failure occurs.	
Display/Adj/Set Range	-128 to 127	
Unit	V	
Default Value	0	
Amount of Change per Unit	30	
WK-TGTN	2	Lead/end edg weak bias crrent: Bk-m, pln
Detail	To adjust the offset value of current to be flowed to the Secondary Transfer Outer Roller when applying leading/trailing edge weak bias in the case of printing on plain paper in single Bk-color mode. Increase the value when white spots at the leading/trailing edge occur.	
Use Case	When an image failure (white spots at the leading/trailing edge) occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this item only when an image failure occurs.	
Display/Adj/Set Range	-20 to 60	
Unit	uA	
Default Value	0	
Amount of Change per Unit	1	
WK-TGTC	2	Lead/end edg weak bias crrent: Bk-m, coat
Detail	To adjust the offset value of current to be flowed to the Secondary Transfer Outer Roller when applying leading/trailing edge weak bias in the case of printing on 2-/1-sided coated paper in single Bk-color mode. Increase the value when white spots at the leading/trailing edge occur.	
Use Case	When an image failure (white spots at the leading/trailing edge) occurs	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Caution	Use this item only when an image failure occurs.	
Display/Adj/Set Range	-20 to 60	
Unit	uA	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-TR

WK-TGTH1	2	Lead/end edg weak bias crmnt: Bk-m, hvy1
Detail	To adjust the offset value of current to be flowed to the Secondary Transfer Outer Roller when applying leading/trailing edge weak bias in the case of printing on heavy paper 1 in single Bk-color mode. Increase the value when white spots at the leading/trailing edge occur.	
Use Case	When an image failure (white spots at the leading/trailing edge) occurs	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Caution	Use this item only when an image failure occurs.	
Display/Adj/Set Range	-20 to 60	
Unit	uA	
Amount of Change per Unit	1	
WK-TGTH2	2	Lead/end edg weak bias crmnt:Bk-m,hvy2-7
Detail	To adjust the offset value of current to be flowed to the Secondary Transfer Outer Roller when applying leading/trailing edge weak bias in the case of printing on heavy paper 2 to 7 in single Bk-color mode. Increase the value when white spots at the leading/trailing edge occur.	
Use Case	When an image failure (white spots at the leading/trailing edge) occurs	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Caution	Use this item only when an image failure occurs.	
Display/Adj/Set Range	-20 to 60	
Unit	uA	
Amount of Change per Unit	1	
2TRI-UP	2	Set Sec Trn Current U-Limit Offset Value
Detail	To adjust the value when a transfer failure due to high secondary transfer current (mottled image, transfer failure, etc.) occurs in multiple paper types.	
Use Case	When a transfer failure (mottled image) due to inappropriate secondary transfer occurs in multiple paper types	
Adj/Set/Operate Method	Enter the setting value (switch positive/negative by +/- key) and press OK key.	
Caution	If the value is set too low, adverse effects (low density, mottled image, etc.) are likely to occur due to the too small secondary transfer current.	
Display/Adj/Set Range	-30 to +30	
Default Value	0	
Supplement/Memo	If the transfer failure occurs only in one paper type, "Adjust Secondary Transfer Voltage" to alleviate the symptom.	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > HV-TR

2TRI-LOW	2	Set Sec Trn Current L-Limit Offset Value
Detail		To adjust the value when a transfer failure due to weak secondary transfer current (mottled image, smeared image at the trailing edge, etc.) occurs in multiple paper types.
Use Case		When a transfer failure (mottled image) due to inappropriate secondary transfer occurs in multiple paper types
Adj/Set/Operate Method		Enter the setting value (switch positive/negative by +/- key) and press OK key.
Caution		If the value is set too high, adverse effects (low density, abnormal electrical discharge, etc.) are likely to occur due to the too large secondary transfer current.
Display/Adj/Set Range		-30 to +30
Unit		uA
Default Value		0
Supplement/Memo		If the transfer failure occurs only in one paper type, "Adjust Secondary Transfer Voltage" to alleviate the symptom.
Amount of Change per Unit		1

■ FEED-ADJ

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > FEED-ADJ

REGIST	1	Adj registration start timing: 1/1 speed
Detail		To adjust the timing to turn ON the Registration Motor at 1/1 speed. As the value is changed by 1, the leading edge margin is changed by 0.1 mm. -: Leading edge margin becomes smaller. (An image moves upward.) +: Leading edge margin becomes larger. (An image moves downward.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label.
Use Case		When replacing the DC Controller PCB/clearing RAM data
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by -/+ key) and press OK key.
Display/Adj/Set Range		-50 to 50
Unit		mm
Default Value		0
Amount of Change per Unit		0.1

ADJ-C1	1	Write start pstn in horz scan:Cassette 1
Detail		To adjust the image write start position in the horizontal scanning direction when feeding paper from the Cassette 1. (Paper width is 320 mm or smaller.) As the value is changed by 1, the left margin is changed by 0.1 mm. +: Left margin becomes larger. (An image moves to the right.) -: Left margin becomes smaller. (An image moves to the left.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label.
Use Case		When replacing the DC Controller PCB/clearing RAM data
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by -/+ key) and press OK key.
Display/Adj/Set Range		-50 to 50
Unit		mm
Default Value		0
Amount of Change per Unit		0.1

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > FEED-ADJ

ADJ-C2	1	Write start pstn in horz scan:Cassette 2
Detail	<p>To adjust the image write start position in the horizontal scanning direction when feeding paper from the Cassette 2. (Paper width is 320 mm or smaller.) As the value is changed by 1, the left margin is changed by 0.1 mm. +: Left margin becomes larger. (An image moves to the right.) -: Left margin becomes smaller. (An image moves to the left.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label.</p>	
Use Case	When replacing the DC Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
ADJ-C3	1	Write start pstn in horz scan:Cassette 3
Detail	<p>To adjust the image write start position in the horizontal scanning direction when feeding paper from the Cassette 3. (Paper width is 320 mm or smaller.) As the value is changed by 1, the left margin is changed by 0.1 mm. +: Left margin becomes larger. (An image moves to the right.) -: Left margin becomes smaller. (An image moves to the left.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label.</p>	
Use Case	When replacing the DC Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
ADJ-C4	1	Write start pstn in horz scan:Cassette 4
Detail	<p>To adjust the image write start position in the horizontal scanning direction when feeding paper from the Cassette 4. (Paper width is 320 mm or smaller.) As the value is changed by 1, the left margin is changed by 0.1 mm. +: Left margin becomes larger. (An image moves to the right.) -: Left margin becomes smaller. (An image moves to the left.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label.</p>	
Use Case	When replacing the DC Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > FEED-ADJ

ADJ-MF	1	Write start pstn in horz scan: MP Tray
Detail	To adjust the image write start position in the horizontal scanning direction when feeding paper from the Multi-purpose Tray. (Paper width is 320 mm or smaller.) As the value is changed by 1, the left margin is changed by 0.1 mm. +: Left margin becomes larger. (An image moves to the right.) -: Left margin becomes smaller. (An image moves to the left.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label.	
Use Case	When replacing the DC Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
ADJ-DK	1	Write start pstn in horz scan:Paper Deck
Detail	To adjust the image write start position in the horizontal scanning direction when feeding paper from the Paper Deck. (Paper width is 320 mm or smaller.) As the value is changed by 1, the left margin is changed by 0.1 mm. +: Left margin becomes larger. (An image moves to the right.) -: Left margin becomes smaller. (An image moves to the left.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label.	
Use Case	When replacing the DC Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
ADJ-C1RE	1	Write start pstn in horz scan:Cst1 2nd
Detail	To adjust the image write start position on the second side in the horizontal scanning direction when feeding paper from the Cassette 1. As the value is changed by 1, the left margin is changed by 0.1 mm. +: Left margin becomes larger. (An image moves to the right.) -: Left margin becomes smaller. (An image moves to the left.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label.	
Use Case	When replacing the DC Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Display/Adj/Set Range	-55 to 55	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > FEED-ADJ

ADJ-C2RE	1	Write start pstn in horz scan:Cst2 2nd
Detail	<p>To adjust the image write start position on the second side in the horizontal scanning direction when feeding paper from the Cassette 2.</p> <p>As the value is changed by 1, the left margin is changed by 0.1 mm.</p> <p>+: Left margin becomes larger. (An image moves to the right.)</p> <p>-: Left margin becomes smaller. (An image moves to the left.)</p> <p>When replacing the DC Controller PCB/clearing RAM data, enter the value of service label.</p>	
Use Case	When replacing the DC Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Display/Adj/Set Range	-55 to 55	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
ADJ-C3RE	1	Write start pstn in horz scan:Cst3 2nd
Detail	<p>To adjust the image write start position on the second side in the horizontal scanning direction when feeding paper from the Cassette 3.</p> <p>As the value is changed by 1, the left margin is changed by 0.1 mm.</p> <p>+: Left margin becomes larger. (An image moves to the right.)</p> <p>-: Left margin becomes smaller. (An image moves to the left.)</p> <p>When replacing the DC Controller PCB/clearing RAM data, enter the value of service label.</p>	
Use Case	When replacing the DC Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Display/Adj/Set Range	-55 to 55	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
ADJ-C4RE	1	Write start pstn in horz scan:Cst4 2nd
Detail	<p>To adjust the image write start position on the second side in the horizontal scanning direction when feeding paper from the Cassette 4.</p> <p>As the value is changed by 1, the left margin is changed by 0.1 mm.</p> <p>+: Left margin becomes larger. (An image moves to the right.)</p> <p>-: Left margin becomes smaller. (An image moves to the left.)</p> <p>When replacing the DC Controller PCB/clearing RAM data, enter the value of service label.</p>	
Use Case	When replacing the DC Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Display/Adj/Set Range	-55 to 55	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > FEED-ADJ

ADJ-DKRE	1	Write start pstn in horz scan:P-Deck,2nd
Detail	To adjust the image write start position on the second side in the horizontal scanning direction when feeding paper from the Paper Deck. As the value is changed by 1, the left margin is changed by 0.1 mm. +: Left margin becomes larger. (An image moves to the right.) -: Left margin becomes smaller. (An image moves to the left.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label.	
Use Case	When replacing the DC Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Display/Adj/Set Range	-55 to 55	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
ADJ-MFRE	1	Write start pstn in horz scan:MPTray 2nd
Detail	To adjust the image write start position on the second side in the horizontal scanning direction when feeding paper from the Multi-purpose Tray. As the value is changed by 1, the left margin is changed by 0.1 mm. +: Left margin becomes larger. (An image moves to the right.) -: Left margin becomes smaller. (An image moves to the left.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label.	
Use Case	When replacing the DC Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Display/Adj/Set Range	-55 to 55	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
REG-THCK	1	Adj registration start timing: 1/2 speed
Detail	To adjust the timing to turn ON the Registration Motor at 1/2 speed. As the value is incremented by 1, the margin on the left edge of paper is increased by 0.1 mm. -: Top margin becomes smaller. (An image moves upward.) +: Top margin becomes larger. (An image moves downward.)	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
REG-OHT	1	Adj register start timing: transparency
Detail	To adjust the leading edge margin by changing the timing to turn ON the Registration Motor when feeding transparency. As the value is incremented by 1, the margin on the leading edge of paper is increased by 0.1 mm. -: Top margin becomes smaller. (An image moves upward.) +: Top margin becomes larger. (An image moves downward.)	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > FEED-ADJ

REG-DUP1	1	Adj register start timing: 1/1 SPD, 2nd
Detail	To adjust the timing to turn ON the Registration Motor when feeding 2nd side at 1/1 speed. As the value is incremented by 1, the margin on the left edge of paper is increased by 0.1 mm. -: Top margin becomes smaller. (An image moves upward.) +: Top margin becomes larger. (An image moves downward.)	
Use Case	When adjusting the leading edge margin	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by -/+ key) and press OK key.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
REG-DUP2	1	Adj register start timing: 1/2 SPD, 2nd
Detail	To adjust the timing to turn ON the Registration Motor when feeding 2nd side at 1/2 speed. As the value is incremented by 1, the margin on the left edge of paper is increased by 0.1 mm. -: Top margin becomes smaller. (An image moves upward.) +: Top margin becomes larger. (An image moves downward.)	
Use Case	When adjusting the leading edge margin	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by -/+ key) and press OK key.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
LP-FEED1	1	Adj pre-rgst arch amount: plain, Casstt
Detail	To adjust the arch amount before registration for plain paper fed from a cassette. As the value is changed by 1, the arch amount is changed by 0.1 mm. +: Increase -: Decrease	
Use Case	When an image on the 1st side of plain paper fed from a cassette is skewed	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by -/+ key) and press OK key.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
LP-MULT1	1	Adj pre-rgst arch amount: plain, MP Tray
Detail	To adjust the arch amount before registration for plain paper fed from the Multi-purpose Tray. As the value is changed by 1, the arch amount is changed by 0.1 mm. +: Increase -: Decrease	
Use Case	When an image on the 1st side of plain paper fed from the Multi-purpose Tray is skewed	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by -/+ key) and press OK key.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > FEED-ADJ

LP-DUP1	1	Adj pre-rgst arch amount: plain, 2-sided
Detail		To adjust the arch amount before registration for plain paper fed in 2-sided mode. As the value is changed by 1, the arch amount is changed by 0.1 mm. +: Increase -: Decrease
Use Case		When an image on the 2nd side of plain paper fed in 2-sided mode is skewed
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Caution		If the value is too large, paper wrinkles or paper bending may occur.
Display/Adj/Set Range		-50 to 50
Unit		mm
Default Value		0
Amount of Change per Unit		0.1
REG-SPD	1	Adjustment of Registration Motor speed
Detail		To adjust the speed of the Registration Motor. As the value is changed by 1, the speed is changed by 0.2%. +: Increase -: Decrease As the value is reduced, blur image in the area of 40 to 45 mm from the trailing edge is alleviated.
Use Case		When blur image occurs in the area of 40 to 45 mm from the trailing edge
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Display/Adj/Set Range		-5 to 5
Unit		%
Default Value		0
Amount of Change per Unit		0.2
EXRV-SPD	1	For R&D
Amount of Change per Unit		0.5

■ CST-ADJ

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CST-ADJ

MF-A4R	1	Adj of MP Tray A4R paper width
Detail		To adjust the width of A4R paper in the Multi-purpose Tray. When replacing the DC Controller PCB/clearing RAM data, enter the value of service label. When replacing the Multi Tray Unit, register a new value of the service label included in the package. Write the value in the service label on the host machine.
Use Case		- When replacing the DC Controller PCB/clearing RAM data - When replacing the Multi Tray Unit
Adj/Set/Operate Method		1) Enter the setting value and press OK key. 2) Turn OFF/ON the main power switch.
Caution		- After the setting value is changed, write the changed value in the service label. - Be sure to adjust MF-MAX/MIN/A4/A5R together with this item.
Display/Adj/Set Range		0 to 1024
Default Value		According to the setting at shipment
Related Service Mode		COPIER> ADJUST> CST-ADJ> MF-MAX/MIN/A4/A5R

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CST-ADJ

MF-A4	1	Adj of MP Tray A4 paper width
Detail	To adjust the width of A4 paper in the Multi-purpose Tray. When replacing the DC Controller PCB/clearing RAM data, enter the value of service label. When replacing the Multi Tray Unit, register a new value of the service label included in the package. Write the value in the service label on the host machine.	
Use Case	- When replacing the DC Controller PCB/clearing RAM data - When replacing the Multi Tray Unit	
Adj/Set/Operate Method	1) Enter the setting value and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	- After the setting value is changed, write the changed value in the service label. - Be sure to adjust MF-MAX/MIN/A4R/A5R together with this item.	
Display/Adj/Set Range	0 to 1024	
Default Value	According to the setting at shipment	
Related Service Mode	COPIER> ADJUST> CST-ADJ> MF-MAX/MIN/A4R/A5R	
CST-VLM1	2	Adj Cassette 1 level detect threshold VL
Detail	To adjust the timing to switch the scale indicating paper level in the Cassette 1 from "3" to "2". Since the paper level to display is switched at the height where papers are stacked, the paper level detection can be changed by adjusting the timing to detect it. To increase the paper levels to display (from "2" to "3"), enter a positive (+) value. To decrease the paper levels to display (from "3" to "2"), enter a negative (-) value.	
Use Case	Upon user's request (to individually adjust the timing to switch the paper level display)	
Adj/Set/Operate Method	1) Enter the setting value (switch positive/negative by +/- key) and press OK key 2) Pull out and then insert the cassette. 3) Check the paper level in the cassette.	
Caution	- The setting is reflected after removing and then installing the cassette. - When the value is increased/decreased greatly, the actual timing may be deviated from the target. Therefore, change the value by 1 at a time while checking the scale.	
Display/Adj/Set Range	-4 to 4	
Appropriate Target Value	0	
Default Value	0	
Supplement/Memo	The timing to switch the scale indicating paper level from "3" to "2" varies individually.	
CST-VLM2	2	Adj Cassette 2 level detect threshold VL
Detail	To adjust the timing to switch the scale indicating paper level in the Cassette 2 from "3" to "2". Since the paper level to display is switched at the height where papers are stacked, the paper level detection can be changed by adjusting the timing to detect it. To increase the paper levels to display (from "2" to "3"), enter a positive (+) value. To decrease the paper levels to display (from "3" to "2"), enter a negative (-) value.	
Use Case	Upon user's request (to individually adjust the timing to switch the paper level display)	
Adj/Set/Operate Method	1) Enter the setting value (switch positive/negative by +/- key) and press OK key 2) Pull out and then insert the cassette. 3) Check the paper level in the cassette.	
Caution	- The setting is reflected after removing and then installing the cassette. - When the value is increased/decreased greatly, the actual timing may be deviated from the target. Therefore, change the value by 1 at a time while checking the scale.	
Display/Adj/Set Range	-4 to 4	
Appropriate Target Value	0	
Default Value	0	
Supplement/Memo	The timing to switch the scale indicating paper level from "3" to "2" varies individually.	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CST-ADJ

CST-VLM3	2	Adj Cassette 3 level detect threshold VL
Detail	To adjust the timing to switch the scale indicating paper level in the Cassette 3 from "3" to "2". Since the paper level to display is switched at the height where papers are stacked, the paper level detection can be changed by adjusting the timing to detect it. To increase the paper levels to display (from "2" to "3"), enter a positive (+) value. To decrease the paper levels to display (from "3" to "2"), enter a negative (-) value.	
Use Case	Upon user's request (to individually adjust the timing to switch the paper level display)	
Adj/Set/Operate Method	1) Enter the setting value (switch positive/negative by +/- key) and press OK key 2) Pull out and then insert the cassette. 3) Check the paper level in the cassette.	
Caution	- The setting is reflected after removing and then installing the cassette. - When the value is increased/decreased greatly, the actual timing may be deviated from the target. Therefore, change the value by 1 at a time while checking the scale.	
Display/Adj/Set Range	-4 to 4	
Appropriate Target Value	0	
Default Value	0	
Supplement/Memo	The timing to switch the scale indicating paper level from "3" to "2" varies individually.	
CST-VLM4	2	Adj Cassette 4 level detect threshold VL
Detail	To adjust the timing to switch the scale indicating paper level in the Cassette 4 from "3" to "2". Since the paper level to display is switched at the height where papers are stacked, the paper level detection can be changed by adjusting the timing to detect it. To increase the paper levels to display (from "2" to "3"), enter a positive (+) value. To decrease the paper levels to display (from "3" to "2"), enter a negative (-) value.	
Use Case	Upon user's request (to individually adjust the timing to switch the paper level display)	
Adj/Set/Operate Method	1) Enter the setting value (switch positive/negative by +/- key) and press OK key 2) Pull out and then insert the cassette. 3) Check the paper level in the cassette.	
Caution	- The setting is reflected after removing and then installing the cassette. - When the value is increased/decreased greatly, the actual timing may be deviated from the target. Therefore, change the value by 1 at a time while checking the scale.	
Display/Adj/Set Range	-4 to 4	
Appropriate Target Value	0	
Default Value	0	
Supplement/Memo	The timing to switch the scale indicating paper level from "3" to "2" varies individually.	
MF-MAX	1	Adj of Multi-purpose Tray maximum width
Detail	To adjust the maximum width of the Multi-purpose Tray. When replacing the DC Controller PCB/clearing RAM data, enter the value of service label. When replacing the Multi Tray Unit, register a new value of the service label included in the package. Write the value in the service label on the host machine.	
Use Case	- When replacing the DC Controller PCB/clearing RAM data - When replacing the Multi Tray Unit	
Adj/Set/Operate Method	1) Enter the setting value and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	- After the setting value is changed, write the changed value in the service label. - Be sure to adjust MF-MIN/A4/A4R/A5R together with this item.	
Display/Adj/Set Range	0 to 1024	
Default Value	According to the setting at shipment	
Related Service Mode	COPIER> ADJUST> CST-ADJ> MF-MIN/A4/A4R/A5R	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > CST-ADJ

MF-MIN	1	Adj of Multi-purpose Tray minimum width
Detail		To adjust the minimum width of the Multi-purpose Tray. When replacing the DC Controller PCB/clearing RAM data, enter the value of service label. When replacing the Multi Tray Unit, register a new value of the service label included in the package. Write the value in the service label on the host machine.
Use Case		- When replacing the DC Controller PCB/clearing RAM data - When replacing the Multi Tray Unit
Adj/Set/Operate Method		1) Enter the setting value and press OK key. 2) Turn OFF/ON the main power switch.
Caution		- After the setting value is changed, write the changed value in the service label. - Be sure to adjust MF-MAX/A4/A4R/A5R together with this item.
Display/Adj/Set Range		0 to 1024
Default Value		According to the setting at shipment
Related Service Mode		COPIER> ADJUST> CST-ADJ> MF-MAX/A4/A4R/A5R

MF-A5R	1	Adj of MP Tray A5R paper width
Detail		To adjust the width of A5R paper in the Multi-purpose Tray. When replacing the DC Controller PCB/clearing RAM data, enter the value of service label. When replacing the Multi Tray Unit, register a new value of the service label included in the package. Write the value in the service label on the host machine.
Use Case		- When replacing the DC Controller PCB/clearing RAM data - When replacing the Multi Tray Unit
Adj/Set/Operate Method		1) Enter the setting value and press OK key. 2) Turn OFF/ON the main power switch.
Caution		- After the setting value is changed, write the changed value in the service label. - Be sure to adjust MF-MAX/MIN/A4/A4R together with this item.
Display/Adj/Set Range		0 to 1024
Default Value		According to the setting at shipment
Related Service Mode		COPIER> ADJUST> CST-ADJ> MF-MAX/MIN/A4/A4R

■ MISC

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > MISC

SEG-ADJ	1	Set criteria for text/photo: front side
Detail		To set whether to judge the original scanned with the Scanner Unit (for front side) in Text/Photo/Map mode as text or photo. As the value is increased, the original tends to be detected as a photo document, and as the value is decreased, the original tends to be detected as a text document. The setting is applied to the image on the front side when the Copyboard/DADF (1-path model) is installed, whereas it is applied to the images on both the front and back sides when the DADF (reverse model) is installed.
Use Case		When adjusting the judgment level of text/photo original scanned with the Scanner Unit (for front side) in Text/Photo/Map mode
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-4 to 4
Default Value		0

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > MISC

K-ADJ	1	Set criteria for black text: front side
Detail		To set whether to judge the color of the text scanned with the Scanner Unit (for front side) as black. As the value is larger, the text tends to be detected as black. The setting is applied to the image on the front side when the Copyboard/DADF (1-path model) is installed, whereas it is applied to the images on both the front and back sides when the DADF (reverse model) is installed.
Use Case		When adjusting the criteria for judging the color of the text scanned with the Scanner Unit (for front side)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-3 to 3
Default Value		0
ACS-ADJ	1	Set criteria for B&W/color in ACS:front
Detail		To set whether to judge the original scanned with the Scanner Unit (for front side) in ACS mode as B&W/color original. As the value is increased, the original tends to be detected as a B&W document, and as the value is decreased, the original tends to be detected as a color document. The setting is applied to the image on the front side when the Copyboard/DADF (1-path model) is installed, whereas it is applied to the images on both the front and back sides when the DADF (reverse model) is installed.
Use Case		When adjusting the color recognition level in ACS mode at scanning with the Scanner Unit (for front side)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-3 to 3
Default Value		0
ACS-EN	2	Set ACS mode judgment area: book mode
Detail		To set the ACS judgment area in the image on the front side read with the Copyboard. As the value is larger, the judgment area is widened.
Use Case		When adjusting the ACS judgment area at copyboard reading
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2
Default Value		1
ACS-CNT	2	Set ACS judgment pixel count area:book scan
Detail		To set the area to judge whether the image on the front side read with the Copyboard is color or B&W at automatic color selection. As the value is larger, the judgment area is widened.
Use Case		When adjusting the area where the pixel is counted to judge whether it is a color/B&W image
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2
Default Value		0

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > MISC

ACS-EN2	2	Set ACS mode judgment area: stream read
Detail		To set the ACS judgment area either in the image on the front side stream read with DADF (1-path model) or the images on both the front and back sides stream read with the DADF (reverse model). As the value is larger, the judgment area is widened.
Use Case		When adjusting the ACS judgment area at stream reading
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2
Default Value		1
ACS-CNT2	2	Set ACS jdgmt pixel count area: DADF
Detail		To set the area to judge whether the image on the front side stream read with DADF (1-path model) or the images on both the front and back sides stream read with the DADF (reverse model) is color or B&W at automatic color selection. As the value is larger, the judgment area is widened.
Use Case		When adjusting the area where the pixel is counted to judge whether it is a color/B&W image
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2
Default Value		0
SEG-ADJ3	1	Set criteria for text/photo: back side
Detail		To set whether to judge the original scanned with the Scanner Unit (for back side) in Text/Photo/Map mode as text or photo. As the value is increased, the original tends to be detected as a photo document, and as the value is decreased, the original tends to be detected as a text document. The setting of this item is enabled only when the DADF (1-path model) is installed.
Use Case		When adjusting the judgment level of text/photo original scanned with the Scanner Unit (for back side) in Text/Photo/Map mode
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-4 to 4
Default Value		0
K-ADJ3	1	Set criteria for black text: back side
Detail		To set whether to judge the color of the text scanned with the Scanner Unit (for back side) as black. As the value is larger, the text tends to be detected as black. The setting of this item is enabled only when the DADF (1-path model) is installed.
Use Case		When adjusting the criteria for judging the color of the text scanned with the Scanner Unit (for back side)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Caution		When the Copyboard or DADF (reverse model) is installed, the setting of this item is disabled.
Display/Adj/Set Range		-3 to 3
Default Value		0

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > MISC

ACS-ADJ3	1	Set ACS B&W/color jdgmt stdrd:back side
Detail	To set whether to judge the original scanned with the Scanner Unit (for back side) in ACS mode as B&W/color original. As the value is increased, the original tends to be detected as a B&W document, and as the value is decreased, the original tends to be detected as a color document. The setting of this item is enabled only when the DADF (1-path model) is installed.	
Use Case	When adjusting the color recognition level in ACS mode at scanning with the Scanner Unit (for back side)	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	When the Copyboard or DADF (reverse model) is installed, the setting of this item is disabled.	
Display/Adj/Set Range	-3 to 3	
Default Value	0	
ACS-EN3	2	ACS mode judgment area:stream, back side
Detail	To set the ACS judgment area in the image on the back side stream read with the DADF (1-path model). As the value is larger, the judgment area is widened. The setting of this item is enabled only when the DADF (1-path model) is installed.	
Use Case	When adjusting the ACS judgment area in the image on the back side at stream reading	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	When the Copyboard or DADF (reverse model) is installed, the setting of this item is disabled.	
Display/Adj/Set Range	-2 to 2	
Default Value	1	
ACS-CNT3	2	ACS mode judgment pixel count area: back
Detail	To set the area to judge whether the image on the back side stream read with DADF (1-path model) is color or B&W at automatic color selection. As the value is larger, the judgment area is widened. The setting of this item is enabled only when the DADF (1-path model) is installed.	
Use Case	When adjusting the area where the pixel is counted to judge whether it is a color/B&W image	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	When the Copyboard or DADF (reverse model) is installed, the setting of this item is disabled.	
Display/Adj/Set Range	-2 to 2	
Default Value	0	
SH-ADJ	1	Adj of sharpness: Copyboard, DADF front
Detail	To adjust the sharpness of image in copyboard reading mode and that of image on the front side in duplex stream reading mode that are set in [Settings/Registration]. As the value is larger, the image gets sharper. If the value is too large, moire is likely to occur in an output image of COPY and SEND. To match the image quality with that of the back side in the duplex stream reading mode, decrease the value when moire on the front side is stronger than the back side and increase the value when it is weaker.	
Use Case	When moire frequently occurs on images of COPY and SEND output	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-3 to 3	
Default Value	0	
Related Service Mode	COPIER> ADJUST> MISC> SH-ADJ2	
Additional Functions Mode	Copy> Options> Sharpness	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > MISC

SH-ADJ2	1	Adjustment of sharpness: DADF back side
Detail	<p>To adjust the sharpness of image on the back side in duplex stream reading mode that is set in [Settings/Registration].</p> <p>As the value is larger, the image gets sharper. If the value is too large, moire is likely to occur in an output image of COPY and SEND.</p> <p>To match the image quality with that of the front side in the duplex stream reading mode, increase the value when moire on the front side is stronger than the back side, and decrease the value when it is weaker.</p>	
Use Case	When moire frequently occurs on images of COPY and SEND output	
Adj/Set/Operate Method	<p>1) Enter the setting value (switch negative/positive by +/- key) and press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	-3 to 3	
Default Value	0	
Related Service Mode	COPIER> ADJUST> MISC> SH-ADJ	
Additional Functions Mode	Copy> Options> Sharpness	

■ EXP-LED

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > EXP-LED

PR-EXP-Y	2	Adj of Y Pre-exposure LED current
Detail	<p>To adjust the current of the Cleaning Pre-exposure LED (Y).</p> <p>As the current is increased, light intensity of the LED becomes strengthened so the potential of the Photosensitive Drum is decreased.</p> <p>Set 15 (the maximum current) when drum ghost (uneven density at intervals of drum circumference) occurs.</p> <p>If the image is still dark (potential is not applied well) even though adjustment has been made with VCONT-Y or VBACK-Y, decrease the value a little at a time from 13 while checking the adjustment result (the current is decreased in increments of approx. 7%).</p>	
Use Case	<p>- When drum ghost occurs</p> <p>- When the image is still dark even though contrast potential and fogging removal potential are adjusted</p>	
Adj/Set/Operate Method	<p>1) Enter the setting value, and then press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Caution	When the value is decreased too much, drum ghost may occur.	
Display/Adj/Set Range	<p>0 to 15</p> <p>0: Normal, 1: OFF, 2: Approx. 7%, 3: Approx. 14%, ..., 13: Approx. 86%, 14: Approx. 93%, 15: Approx. 100%</p>	
Default Value	0	
Related Service Mode	COPIER> ADJUST> V-CONT> VCONT-Y, VBACK-Y	

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > EXP-LED

PR-EXP-M	2	Adj of M Pre-exposure LED current
Detail		To adjust the current of the Cleaning Pre-exposure LED (M). As the current is increased, light intensity of the LED becomes strengthened so the potential of the Photosensitive Drum is decreased. Set 15 (the maximum current) when drum ghost (uneven density at intervals of drum circumference) occurs. If the image is still dark (potential is not applied well) even though adjustment has been made with VCONT-M or VBACK-M, decrease the value a little at a time from 13 while checking the adjustment result (the current is decreased in increments of approx. 7%).
Use Case		- When drum ghost occurs - When the image is still dark even though contrast potential and fogging removal potential are adjusted
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		When the value is decreased too much, drum ghost may occur.
Display/Adj/Set Range		0 to 15 0: Normal, 1: OFF, 2: Approx. 7%, 3: Approx. 14%, ..., 13: Approx. 86%, 14: Approx. 93%, 15: Approx. 100%
Default Value		0
Related Service Mode		COPIER> ADJUST> V-CONT> VCONT-M, VBACK-M
PR-EXP-C	2	Adj of C Pre-exposure LED current
Detail		To adjust the current of the Cleaning Pre-exposure LED (C). As the current is increased, light intensity of the LED becomes strengthened so the potential of the Photosensitive Drum is decreased. Set 15 (the maximum current) when drum ghost (uneven density at intervals of drum circumference) occurs. If the image is still dark (potential is not applied well) even though adjustment has been made with VCONT-C or VBACK-C, decrease the value a little at a time from 13 while checking the adjustment result (the current is decreased in increments of approx. 7%).
Use Case		- When drum ghost occurs - When the image is still dark even though contrast potential and fogging removal potential are adjusted
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		When the value is decreased too much, drum ghost may occur.
Display/Adj/Set Range		0 to 15 0: Normal, 1: OFF, 2: Approx. 7%, 3: Approx. 14%, ..., 13: Approx. 86%, 14: Approx. 93%, 15: Approx. 100%
Default Value		0
Related Service Mode		COPIER> ADJUST> V-CONT> VCONT-C, VBACK-C

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > EXP-LED

PR-EXP-K	2	Adj of Bk Pre-exposure LED current
Detail	To adjust the current of the Cleaning Pre-exposure LED (Bk). As the current is increased, light intensity of the LED becomes strengthened so the potential of the Photosensitive Drum is decreased. Set 15 (the maximum current) when drum ghost (uneven density at intervals of drum circumference) occurs. If the image is still dark (potential is not applied well) even though adjustment has been made with VCONT-K or VBACK-K, decrease the value a little at a time from 13 while checking the adjustment result (the current is decreased in increments of approx. 7%).	
Use Case	- When drum ghost occurs - When the image is still dark even though contrast potential and fogging removal potential are adjusted	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	When the value is decreased too much, drum ghost may occur.	
Display/Adj/Set Range	0 to 15 0: Normal, 1: OFF, 2: Approx. 7%, 3: Approx. 14%, ..., 13: Approx. 86%, 14: Approx. 93%, 15: Approx. 100%	
Default Value	0	
Related Service Mode	COPIER> ADJUST> V-CONT> VCONT-K, VBACK-K	

FUNCTION (Operation / inspection mode)

■ INSTALL

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > INSTALL

STIR-Y	1	Stirring of Y-color developer
Detail	To stir developer in the Y-color Developing Unit.	
Use Case	- At installation of the machine - When an image failure occurs	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Display/Adj/Set Range	During operation: ACTIVE, When operation finished normally: OK!	
Required Time	60 sec	
Related Service Mode	COPIER> FUNCTION> INSTALL> STIR-M/C/K/4	
STIR-M	1	Stirring of M-color developer
Detail	To stir developer in the M-color Developing Unit.	
Use Case	- At installation of the machine - When an image failure occurs	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Display/Adj/Set Range	During operation: ACTIVE, When operation finished normally: OK!	
Required Time	60 sec	
Related Service Mode	COPIER> FUNCTION> INSTALL> STIR-Y/C/K/4	
STIR-C	1	Stirring of C-color developer
Detail	To stir developer in the C-color Developing Unit.	
Use Case	- At installation of the machine - When an image failure occurs	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Display/Adj/Set Range	During operation: ACTIVE, When operation finished normally: OK!	
Required Time	60 sec	
Related Service Mode	COPIER> FUNCTION> INSTALL> STIR-Y/M/K/4	

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > INSTALL

STIR-K	1	Stirring of Bk-color developer
Detail	To stir developer in the Bk-color Developing Unit.	
Use Case	- At installation of the machine - When an image failure occurs	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Display/Adj/Set Range	During operation: ACTIVE, When operation finished normally: OK!	
Required Time	60 sec	
Related Service Mode	COPIER> FUNCTION> INSTALL> STIR-Y/M/C/4	
STIR-4	1	Stirring of all colors of developers
Detail	To stir developer in the Developing Units of 4 colors (Y/M/C/Bk).	
Use Case	- At installation of the machine - When an image failure occurs	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Display/Adj/Set Range	During operation: ACTIVE, When operation finished normally: OK!	
Required Time	60 sec	
Related Service Mode	COPIER> FUNCTION> INSTALL> STIR-Y/M/C/K	
STRD-POS	1	Auto adj frt side read pstn: stream read
Detail	To automatically adjust the Scanner Unit (for front side) position in feed direction when stream reading original with DADF. The adjustment result is reflected to COPIER> ADJUST> ADJ-XY> STRD-POS.	
Use Case	At DADF installation/uninstallation	
Adj/Set/Operate Method	1) Close the DADF. 2) Select the item, and then press OK key. The operation automatically stops after the adjustment. 3) Write the value displayed by COPIER> ADJUST> ADJ-XY> STRD-POS in the service label.	
Caution	Write the adjusted value in the service label.	
Display/Adj/Set Range	At normal termination: OK!, At abnormal termination: NG!	
Required Time	10 sec	
Related Service Mode	COPIER> ADJUST> ADJ-XY> STRD-POS	
CARD	1	Card number setting
Detail	To set the card number to be used for Card Reader. A series of numbers from the entered number to the number of cards specified by CARD-RNG can be used.	
Use Case	- At installation of the Card Reader - After replacement of the HDD	
Adj/Set/Operate Method	1) Enter the number, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	The card management information (department ID and password) is initialized.	
Display/Adj/Set Range	1 to 2001	
Default Value	0	
Related Service Mode	COPIER> OPTION> FNC-SW> CARD-RNG	

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > INSTALL

INISSET-Y	1	Exe of Dev Unit (Y) initial install mod
Detail	To automatically execute operation necessary for initial installation of the Developing Unit (Y).	<ol style="list-style-type: none"> 1. Idle rotation of the Developing Unit 2. Initialization of the ATR Sensor 3. Secondary transfer ATVC control 4. Patch light intensity correction 5. Background correction 6. Discharge current control 7. Primary transfer ATVC control 8. Initialization of the Patch Sensor 9. Color displacement correction control 10. D-max control 11. D-half control 12. Real-time multiple tone control-Lite (creation of target) 13. Cleaning of the Secondary Transfer Outer Roller (twice) 14. Reset of the Developing Unit counter
Use Case	When replacing the Developing Unit (Y)	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Caution	When installing the machine or replacing the Developing Unit of other color, do not use this item.	
Display/Adj/Set Range	During operation: xxx second (remaining time), At normal termination: OK, At abnormal termination: NG	
Required Time	155 sec	
Related Service Mode	COPIER> FUNCTION> INSTALL> INISSET-M/C/K/4	
INISSET-M	1	Exe of Dev Unit (M) initial install mod
Detail	To automatically execute operation necessary for initial installation of the Developing Unit (M).	<ol style="list-style-type: none"> 1. Idle rotation of the Developing Unit 2. Initialization of the ATR Sensor 3. Secondary transfer ATVC control 4. Patch light intensity correction 5. Background correction 6. Discharge current control 7. Primary transfer ATVC control 8. Initialization of the Patch Sensor 9. Color displacement correction control 10. D-max control 11. D-half control 12. Real-time multiple tone control-Lite (creation of target) 13. Cleaning of the Secondary Transfer Outer Roller (twice) 14. Reset of the Developing Unit counter
Use Case	When replacing the Developing Unit (M)	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Caution	When installing the machine or replacing the Developing Unit of other color, do not use this item.	
Display/Adj/Set Range	During operation: xxx second (remaining time), At normal termination: OK, At abnormal termination: NG	
Required Time	155 sec	
Related Service Mode	COPIER> FUNCTION> INSTALL> INISSET-Y/C/K/4	

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > INSTALL

INISSET-C	1	Exe of Dev Unit (C) initial install mod
Detail		To automatically execute operation necessary for initial installation of the Developing Unit (C). 1. Idle rotation of the Developing Unit 2. Initialization of the ATR Sensor 3. Secondary transfer ATVC control 4. Patch light intensity correction 5. Background correction 6. Discharge current control 7. Primary transfer ATVC control 8. Initialization of the Patch Sensor 9. Color displacement correction control 10. D-max control 11. D-half control 12. Real-time multiple tone control-Lite (creation of target) 13. Cleaning of the Secondary Transfer Outer Roller (twice) 14. Reset of the Developing Unit counter
Use Case		When replacing the Developing Unit (C)
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		When installing the machine or replacing the Developing Unit of other color, do not use this item.
Display/Adj/Set Range		During operation: xxx second (remaining time), At normal termination: OK, At abnormal termination: NG
Required Time		155 sec
Related Service Mode		COPIER> FUNCTION> INSTALL> INISSET-Y/M/K/4
E-RDS	1	ON/OFF of Embedded-RDS
Detail		To set whether to use the E-RDS.
Use Case		When using Embedded-RDS
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Be sure to use E-RDS, RGW-PORT, COM-TEST, COM-LOG and RGW-ADR as a set.
Display/Adj/Set Range		0 to 1 0: Not used, 1: Used (All the counter information is sent.)
Default Value		It differs according to the location.
Related Service Mode		COPIER> FUNCTION> INSTALL> RGW-PORT, COM-TEST, COM-LOG, RGW-ADR COPIER> FUNCTION> CLEAR> ERDS-DAT
Supplement/Memo		Embedded-RDS: Function to send device information such as the device counter, failure, and consumables to the sales company's server via SOAP protocol
RGW-PORT	1	Set port number of Sales Co's server
Detail		To set the port number of the sales company's server to be used for Embedded-RDS.
Use Case		When using Embedded-RDS
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Be sure to use E-RDS, RGW-PORT, COM-TEST, COM-LOG and RGW-ADR as a set.
Display/Adj/Set Range		1 to 65535
Default Value		443
Related Service Mode		COPIER> FUNCTION> INSTALL> E-RDS, COM-TEST, COM-LOG, RGW-ADR
Supplement/Memo		Embedded-RDS: Function to send device information such as the device counter, failure, and consumables to the sales company's server via SOAP protocol

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > INSTALL

COM-TEST	1	Dspl connect result w/ Sales Co's server
Detail		To display the result of the connection test with the sales company's server.
Use Case		When using Embedded-RDS
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		Be sure to use E-RDS, RGW-PORT, COM-TEST, COM-LOG and RGW-ADR as a set.
Display/Adj/Set Range		During operation: ACTIVE, When connection is completed: OK, When connection is failed: NG
Related Service Mode		COPIER> FUNCTION> INSTALL> E-RDS, RGW-PORT, COM-LOG, RGW-ADR
Supplement/Memo		Embedded-RDS: Function to send device information such as the device counter, failure, and consumables to the sales company's server via SOAP protocol
COM-LOG	1	Dspl connect error w/ Sales Co's server
Detail		To display error information when the connection with the sales company's server failed.
Use Case		When using Embedded-RDS
Adj/Set/Operate Method		N/A (Display only)
Caution		Be sure to use E-RDS, RGW-PORT, COM-TEST, COM-LOG and RGW-ADR as a set.
Display/Adj/Set Range		Year, date, time, error code, error detail information (maximum 128 characters)
Related Service Mode		COPIER> FUNCTION> INSTALL> E-RDS, RGW-PORT, COM-TEST, RGW-ADR
Supplement/Memo		Embedded-RDS: Function to send device information such as the device counter, failure, and consumables to the sales company's server via SOAP protocol
RGW-ADR	1	URL setting of Sales Company's server
Detail		To set the URL of the sales company's server to be used for Embedded-RDS.
Use Case		When using Embedded-RDS
Adj/Set/Operate Method		1) Select the URL. 2) Enter the URL, and then press OK key. 3) Turn OFF/ON the main power switch.
Caution		- Do not use Shift-JIS character strings. - Be sure to use E-RDS, RGW-PORT, COM-TEST, COM-LOG and RGW-ADR as a set.
Display/Adj/Set Range		URL
Default Value		https://b01.ugwdevice.net/ugw/agentif010
Related Service Mode		COPIER> FUNCTION> INSTALL> E-RDS, RGW-PORT, COM-TEST, COM-LOG
Supplement/Memo		Embedded-RDS: Function to send device information such as the device counter, failure, and consumables to the sales company's server via SOAP protocol
CNT-DATE	1	Set counter send start date to SC server
Detail		To set the year, month, date, hour and minute to send counter information to the sales company's server. This is displayed only when the Embedded-RDS third-party extended function is available.
Use Case		When the non-Canon-made extension function of the Embedded-RDS is available
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		YYYYMMDDHHMM (12 digits) YYYY: Year, MM: Month, DD: Date, HH: Hour, MM: Minute
Default Value		000000000000
Supplement/Memo		Embedded-RDS: Function to send device information such as the device counter, failure, and consumables to the sales company's server via SOAP protocol

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > INSTALL

CNT-INTV	1	Set counter send interval to SC server
Detail	To set the interval of sending counter information to the sales company's server in a unit of one hour. This is displayed only when the Embedded-RDS third-party extended function is available.	
Use Case	When using the Embedded-RDS third-party extended function	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	1 to 168 (=1 week)	
Unit	hour	
Default Value	24	
Supplement/Memo	Embedded-RDS: Function to send device information such as the device counter, failure, and consumables to the sales company's server via SOAP protocol	
Amount of Change per Unit	1	
INISSET-4	1	All colors Dev Units initial instal mode
Detail	To automatically execute operation necessary for initial installation of the Developing Units for all colors. 1. Idle rotation of the Developing Unit 2. Initialization of the ATR Sensors for all colors 3. Secondary transfer ATVC control 4. Patch light intensity correction 5. Background correction 6. Discharge current control 7. Primary transfer ATVC control 8. Initialization of the Patch Sensor 9. Color displacement correction control 10. D-max control 11. D-half control 12. Real-time multiple tone control-Lite (creation of target) 13. Cleaning of the Secondary Transfer Outer Roller (twice) 14. Reset of the Developing Unit counter	
Use Case	- At installation - When replacing the Developing Units for all colors	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Caution	Use this item only when replacing Developing Units for 4 colors simultaneously.	
Display/Adj/Set Range	During operation: xxx second (remaining time), At normal termination: OK, At abnormal termination: NG	
Required Time	155 sec	
Related Service Mode	COPIER> FUNCTION> INSTALL> INISSET-Y/M/C/K	

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > INSTALL

INISSET-K	1	Exe of Dev Unit (Bk) initial install mod
Detail		To automatically execute operation necessary for initial installation of the Developing Unit (Bk). 1. Idle rotation of the Developing Unit 2. Initialization of the ATR Sensor 3. Secondary transfer ATVC control 4. Patch light intensity correction 5. Background correction 6. Discharge current control 7. Primary transfer ATVC control 8. Initialization of the Patch Sensor 9. Color displacement correction control 10. D-max control 11. D-half control 12. Real-time multiple tone control-Lite (creation of target) 13. Cleaning of the Secondary Transfer Outer Roller (twice) 14. Reset of the Developing Unit counter
Use Case		When replacing the Developing Unit (Bk)
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		When installing the machine or replacing the Developing Unit of other color, do not use this item.
Display/Adj/Set Range		During operation: xxx second (remaining time), At normal termination: OK, At abnormal termination: NG
Required Time		155 sec
Related Service Mode		COPIER> FUNCTION> INSTALL> INISSET-Y/M/C/4
CDS-CTL	1	Set country/area when using CDS
Detail		To set country/area to enable CDS. In principle, the default value is the same as that of CONFIG. If the value differs from the country/region of the vice-company of sales, change the setting.
Use Case		When enabling CDS
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		If the setting value is not configured to be the same as the country/region of the vice-company of sales, the necessary firmware may not be able to be downloaded.
Display/Adj/Set Range		JP: Japan, US: USA, GB: Great Britain, FR: France, DE: Germany, IT: Italy, AU: Australia, SG: Singapore, NL: Netherlands, KR: Korea, CN: China, TW: Taiwan, ES: Spain, SE: Sweden, PT: Portugal, NO: Norway, DK: Denmark, FI: Finland, PL: Poland, HU: Hungary, CZ: Czech Republic, SI: Slovenia, GR: Greece, EE: Estonia, RU: Russia, SK: Slovakia, RO: Romania, HR: Croatia, BG: Bulgaria, TR: Turkey, TH: Thailand, VN: Vietnam, AR: Argentina, IN: India, CA: Canada, LA: Latin America, HK: Hong Kong
Default Value		It differs according to the location.
Related Service Mode		COPIER> OPTION> FNC-SW> CONFIG
Supplement/Memo		CDS: Contents Delivery System
RDSHDPOS	1	Auto adj of Reader shading position
Detail		To automatically adjust the Scanner Unit (for front side) position in feed direction when reading the White Plate on the left edge of the Copyboard Glass. The adjustment result is reflected to ADJ-S.
Use Case		When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method		Select the item, and then press OK key.
Display/Adj/Set Range		At start of operation: START, During operation: ACTIVE, When operation finished normally: OK!
Required Time		10 sec
Related Service Mode		COPIER> ADJUST> ADJ-XY> ADJ-S
Supplement/Memo		Shading: It determines the white color reference by reading the White Plate.

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > INSTALL

BIT-SVC	1	OFF/ON of Web service of E-RDS
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set ON/OFF of Web service function of E-RDS. When OFF is selected, authentication information cannot be obtained from E-RDS.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	1	
NFC-USE	1	ON/OFF of NFC option
Detail	To set whether to enable the installed NFC option. Set 1 when using the NFC option. [Use NFC Card Emulation] is displayed in [Settings/Registration].	
Use Case	When installing the NFC option	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
Additional Functions Mode	Management Settings> Device Management> Use NFC Card Emulation	
BLE-USE	1	ON/OFF of BLE module option
Detail	To set whether to enable the installed BLE module option. Set 1 when using the BLE module option. The BLE setting screen is displayed in [Settings/Registration].	
Use Case	When installing the BLE module option	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Do not set 1 when the BLE module option is not installed.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
PATCH-S	2	Adj Patch Sensor S-wave intensity tgt VL
Detail	To adjust the target value of the S-wave light intensity when replacing the Patch Sensor. The light intensity of the Guide Plate under the condition of no soiling on the sensor window is obtained.	
Use Case	When replacing the Patch Sensor	
Adj/Set/Operate Method	1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Execute this item only for a new Patch Sensor.	
INSTDTST	1	Batch set installation date info: YMDHN
Detail	Information on the current date and time is entered collectively in YMDHN of INSTDT by pressing INSTDTST.	
Use Case	At installation	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Related Service Mode	COPIER>OPTION>USER>INSTDT-Y COPIER>OPTION>USER>INSTDT-M COPIER>OPTION>USER>INSTDT-D COPIER>OPTION>USER>INSTDT-H COPIER>OPTION>USER>INSTDT-N	

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > INSTALL

FAX-USE	1	Enable/disable FAX function
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To switch enable/disable of the FAX function of a device mounted with a FAX Board.
Use Case		When disabling the FAX function of a device mounted with a FAX Board
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn ON/OFF the Main Power.
Display/Adj/Set Range		0 to 1 0: OFF, 1: ON
Default Value		1
SUB-IF	1	Set for line connecting to cloud service
Detail		To select the network line connecting to the Canon cloud service
Use Case		When the Canon cloud service is used with a sub line
Adj/Set/Operate Method		1) Select either [Wired LAN+Wireless LAN] or [Wired LAN+Wired LAN] when selecting interface 2) Configure the network setting for the sub line 3) Select 1 for this setting 4) Turn the main power OFF, and then ON
Display/Adj/Set Range		0 to 1 0: Main line, 1: Sub line
Default Value		0
RMS-RGKY	1	Setting the Device Registration Key
Detail		By setting this item in advance, the device registration key input screen can be skipped when selecting "Counter/Device Information > Monitoring Service".
Use Case		To reduce the number of UGW connection steps by entering the Device Registration Key for pre-installation.
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		Dealer Tenant has a different Device Registration Key. If nothing is entered, the Device Registration Key entry screen is displayed.
Display/Adj/Set Range		Input character : 0 to 9 Number of input character : 8 or 16 digit number
Additional Functions Mode		Counter/Device Information > Monitoring Service
Supplement/Memo		Device Registration Key : 8 or 16 digit number

■ CCD

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > CCD

DF-WLVL1	1	White level adj in book mode: color
Detail		To adjust the white level for copyboard scanning automatically by setting the paper which is usually used by the user on the Copyboard Glass.
Use Case		- When replacing the Copyboard Glass - When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Set a paper on the Copyboard Glass. 2) Select the item, and then press OK key.
Caution		Be sure to execute DF-WLVL2 in a row.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Related Service Mode		COPIER> FUNCTION> CCD> DF-WLVL2

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > CCD

DF-WLVL2	1	White level adj: stream reading, color
Detail		To automatically adjust the white level for stream reading by placing the paper which is usually used by the user on the DADF.
Use Case		- When replacing the Copyboard Glass - When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Set paper on the DADF. 2) Select the item, and then press OK key.
Caution		Be sure to execute this item after DF-WLVL1.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Related Service Mode		COPIER> FUNCTION> CCD> DF-WLVL1
DF-LNR	1	Deriving of DADF front/back linearity
Detail		To derive the front/back side linearity in DADF mode based on the scanning data which has been backed up at factory.
Use Case		When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Enter the value of the reader's service label. COPIER> ADJUST> CCD> DFCH-R2, DFCH-G2, DFCH-B2, DFCH-K2, DFCH-R10, DFCH-G10, DFCH-B10, DFCH-K10, DFCH2R2, DFCH2G2, DFCH2B2, DFCH2K2, DFCH2R10, DFCH2G10, DFCH2B10, DFCH2K10 2) Select the item, and then press OK key.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Related Service Mode		COPIER> ADJUST> CCD> DFCH-R2/R10/G2/G10/B2/B10/K2/K10, DFCH2R2/10, DFCH2G2/10, DFCH2B2/10, DFCH2K2/10
MTF-CLC	1	Deriving of MTF filter coefficient
Detail		To derive the MTF filter coefficient to be set for ASIC based on the MTF value which has been backed up.
Use Case		When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		Be sure to enter the MTF values for the Scanner Units (for front side/back side) in MTF-M1 to 12/S1 to 12 and MTF2-M1 to 12/S1 to 12 in advance.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Related Service Mode		COPIER> ADJUST> CCD> MTF-M1 - M12, MTF-S1 - S12, MTF2-M1 - M12, MTF2-S1 - S12
Supplement/Memo		MTF values are written on the label of the Scanner Unit in the DADF/Reader.
DF-WLVL3	1	White level adj in book mode: B&W
Detail		To adjust the white level for copyboard scanning automatically by setting a paper which is usually used by the user on the Copyboard Glass.
Use Case		- When replacing the Copyboard Glass - When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Set a paper on the Copyboard Glass. 2) Select the item, and then press OK key.
Caution		Be sure to execute DF-WLVL4 in a row.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Related Service Mode		COPIER> FUNCTION> CCD> DF-WLVL4

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > CCD

DF-WLV4	1	White level adj: stream reading, B&W
Detail		To automatically adjust the white level for stream reading by placing the paper which is usually used by the user on the DADF.
Use Case		- When replacing the Copyboard Glass - When replacing the Scanner Unit - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		1) Set paper on the DADF. 2) Select the item, and then press OK key.
Caution		Be sure to execute this item after DF-WLV3.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Related Service Mode		COPIER> FUNCTION> CCD> DF-WLV3
BW-TGT	1	Set of B&W shading target value
Detail		After the white level data (X/Y/Z) for the Standard White Plate is set, read the Standard White Plate and set the black and white shading target value.
Use Case		When replacing the Copyboard Glass/Scanner Unit
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		Be sure to execute this item after execution of COPIER> ADJUST> CCD>W-PLT-X, W-PLT-Y, W-PLT-Z.
Related Service Mode		COPIER> ADJUST> CCD> W-PLT-X/Y/Z, SH-TRGT

■ LASER

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > LASER

LD-ADJ-Y	2	Return Y Skew Crrct Motor to ini pstn
Detail		When Y-color skew amount in vertical scanning direction is larger than estimation, the Skew Correction Motor (Y) is locked, and color displacement cannot be corrected even when color displacement correction control is executed. This item places the Skew Correction Motor (Y) to the center position in such cases.
Use Case		When replacing the Laser Scanner Unit to identify the failure position
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		If the cover is opened and then closed during operation, execute this item again. The operation is not completed even if "OK!" is displayed.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Required Time		10 sec
LD-ADJ-M	2	Return M Skew Crrct Motor to ini pstn
Detail		When M-color skew amount in vertical scanning direction is larger than estimation, the Skew Correction Motor (M) is locked, and color displacement cannot be corrected even when color displacement correction control is executed. This item places the Skew Correction Motor (M) to the center position in such cases.
Use Case		When replacing the Laser Scanner Unit to identify the failure position
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		If the cover is opened and then closed during operation, execute this item again. The operation is not completed even if "OK!" is displayed.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Required Time		10 sec

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > LASER

LD-ADJ-C	2	Return C Skew Crrct Motor to ini pstn
Detail	When C-color skew amount in vertical scanning direction is larger than estimation, the Skew Correction Motor (C) is locked, and color displacement cannot be corrected even when color displacement correction control is executed. This item places the Skew Correction Motor (C) to the center position in such cases.	
Use Case	When replacing the Laser Scanner Unit to identify the failure position	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Caution	If the cover is opened and then closed during operation, execute this item again. The operation is not completed even if "OK!" is displayed.	
Display/Adj/Set Range	During operation: ACTIVE, When operation finished normally: OK!	
Required Time	10 sec	
LD-ADJ-K	2	Return Bk Skew Crrct Motor to ini pstn
Detail	When Bk-color skew amount in vertical scanning direction is larger than estimation, the Skew Correction Motor (Bk) is locked, and color displacement cannot be corrected even when color displacement correction control is executed. This item places the Skew Correction Motor (Bk) to the center position in such cases.	
Use Case	When replacing the Laser Scanner Unit to identify the failure position	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Caution	If the cover is opened and then closed during operation, execute this item again. The operation is not completed even if "OK!" is displayed.	
Display/Adj/Set Range	During operation: ACTIVE, When operation finished normally: OK!	
Required Time	10 sec	
H-PS-ADJ	1	Horz scan clr displc crrct among procSPD
Detail	To automatically correct color displacement in horizontal scanning direction that occurs among process speeds.	
Use Case	<ul style="list-style-type: none"> - When replacing the Laser Scanner Unit/harness - When replacing the DC Controller PCB - When replacing the Main Controller PCB - When color displacement in horizontal scanning direction occurs 	
Adj/Set/Operate Method	<ol style="list-style-type: none"> 1) Select the item, and then press OK key. 2) Execute auto color displacement correction. 	
Caution	<ul style="list-style-type: none"> - If this item is executed after H-PS-CK/YM, the result of manual correction is disabled. - After execution, execute auto color displacement correction. 	
Required Time	40 sec	
Related Service Mode	COPIER> FUNCTION> LASER> H-PS-YM/CK	
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Auto Correct Color Mismatch	
H-PS-YM	1	Horz scan displc crrct manual crrct: Y-M
Detail	<p>To manually correct color displacement of Y- and M-color in horizontal scanning direction that occurs among process speeds.</p> <p>If color displacement is not alleviated by executing H-PS-ADJ, adjust the write start position of Y/ M-color image.</p> <p>As the value is changed by 1, the image is moved by 1/32 pixel.</p>	
Use Case	When color displacement in horizontal scanning direction is not alleviated with H-PS-ADJ	
Adj/Set/Operate Method	<ol style="list-style-type: none"> 1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Execute auto color displacement correction. 	
Caution	Do not execute H-PS-ADJ after executing this item. Otherwise, the result of manual correction is disabled.	
Display/Adj/Set Range	-4535 to 4535	
Related Service Mode	COPIER> FUNCTION> LASER> H-PS-ADJ/CK	
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Auto Correct Color Mismatch	

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > LASER

H-PS-CK	1	Horz scan displc crrect manual crrect:C-Bk
Detail		To manually correct color displacement of C- and Bk-color in horizontal scanning direction that occurs among process speeds. If color displacement is not alleviated by executing H-PS-ADJ, adjust the write start position of C/ Bk-color image. As the value is changed by 1, the image is moved by 1/32 pixel.
Use Case		When color displacement in horizontal scanning direction is not alleviated with H-PS-ADJ
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Execute auto color displacement correction.
Caution		Do not execute H-PS-ADJ after executing this item. Otherwise, the result of manual correction is disabled.
Display/Adj/Set Range		-4535 to 4535
Related Service Mode		COPIER> FUNCTION> LASER> H-PS-ADJ/YM
Additional Functions Mode		Adjustment/Maintenance> Adjust Image Quality> Auto Correct Color Mismatch

■ DPC

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > DPC

DRMRSETY	1	Execution of Y-color Drum aging
Detail		To execute the drum aging to the Drum Unit (Y) as a temporary measure. If "failure" is displayed when installing a new Drum Unit and it cannot be solved by replacing the unit, use this item to continue to use the unit on a temporarily basis. By executing auto gradation adjustment after reboot, drum aging will be executed (the setting is enabled only once).
Use Case		- At installation - When replacing the Drum Unit
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch. 3) Execute auto gradation adjustment (full adjustment).
Caution		If the machine recognizes the Drum Unit correctly and the failure display disappears after performing the remedy, be sure to replace the unit with a new one. If it is continued to be used, the drum counter may not be displayed correctly.
Required Time		2 min
Related Service Mode		COPIER> COUNTER> LF> Y-DRM-LF COPIER> FUNCTION> DPC> DRMRSETM, DRMRSETC, DRMRSETK
Supplement/Memo		Drum aging: Lubricant applied on the Drum Cleaning Blade may adhere on the surface of the Photosensitive Drum during transportation of the device. By forming toner band on the Photosensitive Drum, lubricant is removed together with the toner.

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > DPC

DRMRSETM	1	Execution of M-color Drum aging
Detail		To execute the drum aging to the Drum Unit (M) as a temporary measure. If "failure" is displayed when installing a new Drum Unit and it cannot be solved by replacing the unit, use this item to continue to use the unit on a temporarily basis. By executing auto gradation adjustment after reboot, drum aging will be executed (the setting is enabled only once).
Use Case		- At installation - When replacing the Drum Unit
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch. 3) Execute auto gradation adjustment (full adjustment).
Caution		If the machine recognizes the Drum Unit correctly and the failure display disappears after performing the remedy, be sure to replace the unit with a new one. If it is continued to be used, the drum counter may not be displayed correctly.
Required Time		2 min
Related Service Mode		COPIER> COUNTER> LF> M-DRM-LF COPIER> FUNCTION> DPC> DRMRSETY, DRMRSETC, DRMRSETK
Supplement/Memo		Drum aging: Lubricant applied on the Drum Cleaning Blade may adhere on the surface of the Photosensitive Drum during transportation of the device. By forming toner band on the Photosensitive Drum, lubricant is removed together with the toner.
DRMRSETC	1	Execution of C-color Drum aging
Detail		To execute the drum aging to the Drum Unit (C) as a temporary measure. If "failure" is displayed when installing a new Drum Unit and it cannot be solved by replacing the unit, use this item to continue to use the unit on a temporarily basis. By executing auto gradation adjustment after reboot, drum aging will be executed (the setting is enabled only once).
Use Case		- At installation - When replacing the Drum Unit
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch. 3) Execute auto gradation adjustment (full adjustment).
Caution		If the machine recognizes the Drum Unit correctly and the failure display disappears after performing the remedy, be sure to replace the unit with a new one. If it is continued to be used, the drum counter may not be displayed correctly.
Required Time		2 min
Related Service Mode		COPIER> COUNTER> LF> C-DRM-LF COPIER> FUNCTION> DPC> DRMRSETY, DRMRSETM, DRMRSETK
Supplement/Memo		Drum aging: Lubricant applied on the Drum Cleaning Blade may adhere on the surface of the Photosensitive Drum during transportation of the device. By forming toner band on the Photosensitive Drum, lubricant is removed together with the toner.

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > DPC

DRMRSETK	1	Execution of Bk-color Drum aging
Detail	To execute the drum aging to the Drum Unit (Bk) as a temporary measure. If "failure" is displayed when installing a new Drum Unit and it cannot be solved by replacing the unit, use this item to continue to use the unit on a temporarily basis. By executing auto gradation adjustment after reboot, drum aging will be executed (the setting is enabled only once).	
Use Case	- At installation - When replacing the Drum Unit	
Adj/Set/Operate Method	1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch. 3) Execute auto gradation adjustment (full adjustment).	
Caution	If the machine recognizes the Drum Unit correctly and the failure display disappears after performing the remedy, be sure to replace the unit with a new one. If it is continued to be used, the drum counter may not be displayed correctly.	
Required Time	2 min	
Related Service Mode	COPIER> COUNTER> LF> K-DRM-LF COPIER> FUNCTION> DPC> DRMRSETY, DRMRSETM, DRMRSETC	
Supplement/Memo	Drum aging: Lubricant applied on the Drum Cleaning Blade may adhere on the surface of the Photosensitive Drum during transportation of the device. By forming toner band on the Photosensitive Drum, lubricant is removed together with the toner.	

■ CST

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > CST

DK1-SPAD	1	Set Paper Deck Unit lifter stop position
Detail	To open the compartment of the Paper Deck Unit while the lifter stops at the pickup position. The height of the Pre-separation Plate can be adjusted because the lifter is at the pickup position.	
Use Case	When adjusting pre-separation position after replacing the Pickup Unit/compartment	
Adj/Set/Operate Method	Select the item, and then press OK key.	

■ CLEANING

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > CLEANING

2TR-CLN	1	Clean of Secondary Transfer Outer Roller
Detail	To clean soiling adhered on the Secondary Transfer Outer Roller. Transfer toner to the Secondary Transfer Outer Roller once and then execute bias cleaning to remove soiling.	
Use Case	- When the backside of the paper is soiled by the Secondary Transfer Roller - When contacting with the Secondary Transfer Roller at the time of jam removal, etc.	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Display/Adj/Set Range	During operation: ACTIVE, When operation finished normally: OK!	
TNR-COAT	1	Exe toner application to Sec Trns Roller
Detail	When the Secondary Transfer Outer Roller is replaced with a new one, substances leaking from the new roller may adhere to the ITB. By executing this item after replacement, Y-color toner is applied onto the surface of the roller, so adhesion of substances leaking from the roller can be prevented.	
Use Case	When replacing the Secondary Transfer Outer Roller	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Caution	Be sure to execute this item to the roller which surface is not soiled.	
Display/Adj/Set Range	During operation: ACTIVE, When operation finished normally: OK!	

■ FIXING

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > FIXING

NIP-CHK	1	Checking of fixing nip width
Detail	To check whether the fixing nip width is appropriate by printing. When this item is executed, 2-sided print is started. A single Bk-color solid image is printed on the 1st side. Nothing is printed on the 2nd side but the paper is stopped briefly at the fixing nip. There will be fixing nip trace at the center of the image on the 1st side of the delivered paper. Fixing nip with at 5 mm from each edge of paper and at the center of the paper is within 8 to 10 mm, it can be judged as appropriate. Otherwise, a fixing failure may occur.	
Use Case	- When replacing the fixing-related parts (Fixing Film Unit, Pressure Roller) - When a fixing failure occurs	
Adj/Set/Operate Method	1) Place A4/LTR plain paper 2 (76 to 90 g/m ²) on the Multi-purpose Tray. 2) Select "MPT", and then press OK key. Two-sided printing is started, and a paper is automatically stopped at the fixing nip (10 seconds) and then is automatically delivered. 3) Measure the nip width.	
Display/Adj/Set Range	During operation: ACTIVE, When operation finished normally: OK!	

■ PANEL

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > PANEL

LCD-CHK	1	Check of LCD Panel dot missing
Detail	To check whether there is a missing dot on the LCD Panel of the Control Panel.	
Use Case	When replacing the LCD Panel	
Adj/Set/Operate Method	1) Select the item, and then press OK key. 2) Check that the LCD Panel lights up in the order of white, black, red, green and blue. 3) Press STOP key to terminate checking.	
LED-CHK	1	Check of Control Panel LED
Detail	To check whether the LED on the Control Panel lights up.	
Use Case	When replacing the LCD Panel	
Adj/Set/Operate Method	1) Select the item, and then press OK key. 2) Check that the LED lights up in the order. 3) Use LED-OFF to terminate checking.	
Related Service Mode	COPIER> FUNCTION> PANEL> LED-OFF	
LED-OFF	1	End check of Control Panel LED
Detail	To terminate the check of LED on the Control Panel.	
Use Case	During execution of LED-CHK	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Related Service Mode	COPIER> FUNCTION> PANEL> LED-CHK	
KEY-CHK	1	Check of key entry
Detail	To check the key input on the Control Panel.	
Use Case	When replacing the LCD Panel	
Adj/Set/Operate Method	1) Select the item and press the key on the Control Panel. 2) Check that the input value is displayed. 3) Cancel the selection to terminate checking.	
TOUCHCHK	1	Adj of coordinate pstn of Touch Panel
Detail	To adjust the coordinate position on the Touch Panel of the Control Panel.	
Use Case	When replacing the LCD Panel	
Adj/Set/Operate Method	1) Select the item, and then press OK key. 2) Press the nine "+" keys in sequence.	

■ PART-CHK

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > PART-CHK

CL	1	Specification of operation clutch
Detail		To specify the clutch to operate.
Use Case		When replacing the clutch/checking the operation
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		1 to 6 1: Not used, 2: Toner Supply Clutch (Y) (CL2), 3: Toner Supply Clutch (M) (CL3), 4: Toner Supply Clutch (C) (CL4), 5: Toner Supply Clutch (Bk) (CL5), 6: Not used
Default Value		0
Related Service Mode		COPIER> FUNCTION> PART-CHK> CL-ON
CL-ON	1	Operation check of clutch
Detail		To start operation check of the clutch specified by CL. ON/OFF of the clutch is repeated at intervals of 3 seconds.
Use Case		When replacing the clutch/checking the operation
Adj/Set/Operate Method		1) Drive the ITB and the drum (specify "13" in MTR and execute MTR-ON). 2) Select the item, and then press OK key. 3) Check the gear of the Transfer Cleaning Assembly.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Required Time		20 sec
Related Service Mode		COPIER> FUNCTION> PART-CHK> CL, MTR, MTR-ON
FAN	1	Specification of operation fan
Detail		To specify the fan to operate.
Use Case		When replacing the fan/checking the operation
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		1 to 99 1: Fixing Heat Exhaust Fan 1 (FM1) 2: Fixing Heat Exhaust Fan 2 (FM2) 3: Not used 4: Process Cartridge Fan (Rear) (FM4) 5: Fixing Cooling Fan (Front) (FM5) 6: Fixing Cooling Fan (Rear) (FM6) 7: Delivery Fan 1 (FM7) 8: Secondary Transfer Exhaust Fan (FM8) 9: Delivery Fan 2 (FM9) 10: Process Cartridge Fan (Front) (FM10) 11: Not use 12: Rear Exhaust Fan (FM12) *1 13 to 98: Not used 99: All fans *1: EUR model only
Default Value		0
Related Service Mode		COPIER> FUNCTION> PART-CHK> FAN-ON
FAN-ON	1	Operation check of fan
Detail		To start operation check of the fan specified by FAN.
Use Case		When replacing the fan/checking the operation
Adj/Set/Operate Method		Select the item, and then press OK key.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Required Time		1 min
Related Service Mode		COPIER> FUNCTION> PART-CHK> FAN

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > PART-CHK

MTR	1 Specification of operation motor
Detail	To specify the motor to operate.
Use Case	When replacing the motor/checking the operation
Adj/Set/Operate Method	Enter the value, and then press OK key.
Caution	<p>- The Image Skew Correction Motors (M31 to 34) do not operate since there is a possibility of color displacement.</p> <p>- The ITB Displacement Control Motor (M14) does not operate since there is a possibility of damage.</p> <p>- Do not operate the Primary Transfer Roller Disengagement Motor (M15) repeatedly. Otherwise, it may be damaged.</p> <p>- Motors relating to cassette (M40 to 43, M101 to 105) do not operate when cassette is closed to prevent pickup and too much lifting of the Lifter Plate.</p> <p>- The Deck Shift Motor (M106) does not operate when cassette is closed. If the High Capacity Cassette Shift Plate is operated while the cassette is closed, it may get damage.</p>
Display/Adj/Set Range	<p>1 to 45</p> <p>1: Image Skew Correction Motor (Y) (M31) *1</p> <p>2: Image Skew Correction Motor (M) (M32) *1</p> <p>3: Image Skew Correction Motor (C) (M33) *1</p> <p>4: Image Skew Correction Motor (Bk) (M34) *1</p> <p>5: Developing Motor (Y) (M5)</p> <p>6: Developing Motor (M) (M6)</p> <p>7: Developing Motor (C) (M7)</p> <p>8: Developing Motor (Bk) (M8)</p> <p>9: Bottle Motor (Y) (M9)</p> <p>10: Bottle Motor (M) (M10)</p> <p>11: Bottle Motor (C) (M11)</p> <p>12: Bottle Motor (Bk) (M12)</p> <p>13: Drum Motor (YMC) (M1), Drum Motor (Bk) (M4) and ITB Motor (M13) *2</p> <hr/> <p>14: ITB Displacement Control Motor (M14) *1</p> <p>15: Primary Transfer Disengagement Motor (M15) *3</p> <p>16: Fixing Motor (M21) (264 mm/sec)</p> <p>17: Fixing Motor (M21) (222 mm/sec)</p> <p>18: Fixing Motor (M21) (145 mm/sec)</p> <p>19: Fixing Motor (M21) (132 mm/sec)</p> <p>20: Waste Toner Feed Motor (M26) and Waste Toner Stirring Motor (M45) *4</p> <p>21: Fixing Shutter Motor (M27)</p> <p>22: Laser Shutter Motor (M28)</p> <p>23: High Capacity Cassette Shift Motor (M106) *7</p> <p>24: Cassette 1, 2 Lifter Motor (M40) (Cassette 1) *5</p> <p>25: Cassette 1, 2 Lifter Motor (M40) (Cassette 2) *5</p> <p>26: Cassette 1, 2 Pickup Motor (M41) (Cassette 1) *5</p> <p>27: Cassette 1, 2 Pickup Motor (M41) (Cassette 2) *5</p> <p>28: MP Pickup Motor (M18)</p> <p>29: MP Pickup Motor (M18) (Lifting and lowering of the MP Tray Pickup Roller)</p> <p>30: Registration Motor (M19)</p> <p>31: Duplex Feed Motor (M20)</p> <p>32: Pre-Registration Motor (M44)</p> <p>33: First & Second Delivery Motor (M23)</p> <p>34: Reverse Motor (M24)</p> <p>35: Third Delivery Motor (M25)</p> <p>36: Cassette 1 Pullout Motor (M42)</p> <p>37: Cassette 2 Pullout Motor (M43)</p> <p>38: Cassette 3 Pullout Motor (M103) *6/ High Capacity Cassette Pullout Motor (M103) *7</p> <p>39: Cassette 4 Pullout Motor (M104) *6</p> <p>40: Cassette 3,4 Lifter Motor (M101) (Cassette 3) *6</p> <p>41: Cassette 3,4 Lifter Motor (M101) (Cassette 4) *6</p> <p>42: Cassette 3,4 Pickup Motor (M102) (Cassette 3) *6/High Capacity Cassette Pickup Motor (M102) *7</p> <p>43: Cassette 3,4 Pickup Motor (M102) (Cassette 4) *6</p>

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > PART-CHK

- 44: Deck pull-out motor (M2) (Paper Deck Unit)
- 45: Deck pickup motor (M1) (Paper Deck Unit)
- *1: It does not operate.
- *2: The three motors operate at the same time.
- *3: It performs engagement/disengagement operation only once.
- *4: The two motors operate at the same time.
- *5: It does not operate when the Cassette 1/2 is closed.
- *6: For the 2-cassette Pedestal. It does not operate when the Cassette 3/4 is closed.
- *7: For the High Capacity Cassette Pedestal. It does not operate when the Cassette 3 is closed.

Default Value	0
Related Service Mode	COPIER> FUNCTION> PART-CHK> MTR-ON
Supplement/Memo	Process speed (reference) iR-ADV C5560 series: 264/222/132 mm/sec iR-ADV C5550/5540 series: 222/132 mm/sec iR-ADV C5535 series: 145/132 mm/sec
MTR-ON	1 Operation check of motor
Detail	To start operation check of the motor specified by MTR. After the motor operates for the specified period of time (2 to 30 seconds), it automatically stops.
Use Case	When replacing the motor/checking the operation
Adj/Set/Operate Method	Select the item, and then press OK key.
Caution	Check operation of the motor with your eyes and ears. When the specified time has passed after the DC Controller sent a command, "OK!" is displayed even if the motor does not actually operate due to connection failure of connector or open circuit. When an error occurs with the target motor or operation of the machine is not available, "NG" is displayed.
Display/Adj/Set Range	During operation: ACTIVE, At normal termination: OK, At abnormal termination: NG
Related Service Mode	COPIER> FUNCTION> PART-CHK> MTR
SL	1 Specification of operation solenoid
Detail	To specify the solenoid to operate.
Use Case	When replacing the solenoid/checking the operation
Adj/Set/Operate Method	Enter the setting value, and then press OK key.
Display/Adj/Set Range	1 to 9 1: Registration Shutter Solenoid (SL1), 2 to 4: Not used, 5: First Delivery Flapper Solenoid (SL5), 6: Second Delivery Flapper Solenoid (SL6), 7: Third Delivery Flapper Solenoid (SL7), 8 to 9: Not used
Default Value	0
Related Service Mode	COPIER> FUNCTION> PART-CHK> SL-ON
SL-ON	1 Operation check of solenoid
Detail	To start operation check of the solenoid specified by SL. The operation stops after "ON for 0.5 sec" => "OFF for 10 sec" => "ON for 0.5 sec" => "OFF for 10 sec" => "ON for 0.5 sec".
Use Case	When replacing the solenoid/checking the operation
Adj/Set/Operate Method	Select the item, and then press OK key.
Display/Adj/Set Range	During operation: ACTIVE, When operation finished normally: OK!
Required Time	1 min
Related Service Mode	COPIER> FUNCTION> PART-CHK> SL

■ CLEAR

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > CLEAR

ERR	1	Clear of error code
Detail		To clear the specific error code.
Use Case		At error occurrence
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
DC-CON	1	RAM clear of DC Controller PCB
Detail		To clear the RAM data of the DC Controller PCB. Not clear the counter.
Use Case		When clearing RAM data of the DC Controller PCB
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		- Output the service mode setting values by P-PRINT before execution. After execution, enter necessary setting values. - The RAM data is cleared After the main power switch is turned OFF/ON.
Related Service Mode		COPIER> FUNCTION> MISC-P> P-PRINT
R-CON	1	RAM clear of Reader Controller PCB
Detail		To clear the RAM data of the Reader Controller PCB.
Use Case		When clearing RAM data of the Reader Controller PCB
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		- Output the service mode setting values by P-PRINT before execution. After execution, enter necessary setting values. - The RAM data is cleared after the main power switch is turned OFF/ON.
Related Service Mode		COPIER> FUNCTION> MISC-P> P-PRINT
JAM-HIST	1	Clear of jam history
Detail		To clear the jam history.
Use Case		When clearing the jam history
Adj/Set/Operate Method		Select the item, and then press OK key.
Related Service Mode		COPIER> DISPLAY> JAM
ERR-HIST	1	Clear of error code history
Detail		To clear the error code history.
Use Case		When clearing the error code history
Adj/Set/Operate Method		Select the item, and then press OK key.
Related Service Mode		COPIER> DISPLAY> ERR
PWD-CLR	1	Clear of system administrator password
Detail		* Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To clear the password of the system administrator set in [Settings/Registration].
Use Case		When clearing the password of the system administrator
Adj/Set/Operate Method		Select the item, and then press OK key.
ADRS-BK	1	Clearing of address book
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To clear the address book data.
Use Case		When clearing the address book data
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		The address book data is cleared after the main power switch is turned OFF/ON.

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > CLEAR

CNT-MCON	1	Clear of Main Controller service counter
Detail		To clear the service counter counted by the Main Controller PCB.
Use Case		When clearing the service counter counted by the Main Controller PCB
Adj/Set/Operate Method		Select the item, and then press OK key.
Related Service Mode		COPIER> COUNTER
Supplement/Memo		See COUNTER for the target counter.
CNT-DCON	1	Clear of DC Controller service counter
Detail		To clear the service counter counted by the DC Controller PCB.
Use Case		When clearing the service counter counted by the DC Controller PCB
Adj/Set/Operate Method		Select the item, and then press OK key.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
MMI	1	Clear Settings/Registration setting VL
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To clear the Settings/Registration setting values. - Preferences (excluding values for Paper Type Management Settings) - Adjustment/Maintenance - Function Settings - Set Destination (excluding Address Lists) - Management Settings (excluding Department ID Management)
Use Case		When clearing various setting values of [Settings/Registration]
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		- The setting value is cleared after the main power switch is turned OFF/ON. - If this item is executed while a login application other than User Authentication is running, it switched to User Authentication after reboot. Set the login application using SMS as needed.
Supplement/Memo		SMS (Service Management Service): An application for management which can be used on remote UI.
MN-CON	1	Deletion of setting values
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To delete the setting values of address lists, forwarding settings, Settings/Registration and service mode. For details, refer to "Backup Data List" in the Service Manual.
Use Case		When initializing the setting values
Adj/Set/Operate Method		1) Select the item, and then press OK key. The machine is automatically rebooted. 2) Turn OFF/ON the main power switch.
Caution		- Output the service mode setting values by P-PRINT before execution. After execution, enter necessary setting value. - RAM data is cleared after the main power switch is turned OFF/ON. - If this item is executed while a login application other than User Authentication is running, it switched to User Authentication after reboot. Set the login application using SMS as needed.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Related Service Mode		COPIER> FUNCTION> MISC-P> P-PRINT
Supplement/Memo		SMS (Service Management Service): An application for management which can be used on remote UI.

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > CLEAR

CARD	1	Clear of card ID-related data
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To clear the data related to the card ID (department).
Use Case		When clearing the data related to the card ID
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		The value is cleared after the main power switch is turned OFF/ON.
ALARM	1	Clear of alarm log
Detail		To clear alarm log.
Use Case		When clearing alarm log
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		The alarm log is cleared after the main power switch is turned OFF/ON.
Related Service Mode		COPIER> DISPLAY> ALARM-2
CA-KEY	2	Deletion of CA certificate and key pair
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To simultaneously delete the CA certificate and key pair which are additionally registered by the user.
Use Case		When a service person replaces/discards the device
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Check that OK is displayed. 3) Turn OFF/ON the main power switch.
Caution		- Unless this item is executed at the time of replacement/discard of the device, the CA certificate and key pair which are additionally registered by the user remain in the HDD, which is a problem in terms of security. - Do not execute this item carelessly because the CA certificate and key pair which are additionally registered are deleted when it is executed. If they are deleted mistakenly, they need to be again registered by the user. If no CA certificate and key pair are additionally registered, the machine condition becomes the same as the one at the time of factory shipment. - When NG is displayed in 2), there is a possibility that deletion was not executed. In this case, surely execute the deletion by initializing the HDD, etc.
Display/Adj/Set Range		At normal termination: OK!, At abnormal termination: NG!
Supplement/Memo		- The CA certificate is used in the MEAP application with E-RDS and SSL client connection, and the key pair is used in the SSL function of IPP, RUI and MEAP. - When the main power switch is turned OFF/ON, the CA certificate and key pair which were registered at the time of factory shipment are decompressed from the archive, and become available in the E-RDS/SSL function.
ERDS-DAT	1	Initialization of E-RDS SRAM data
Detail		To initialize the "internal setting values" of the Embedded-RDS stored in the SRAM. "Internal setting values" are ON/OFF of E-RDS, server's port number, server's SOAP URL, and communication schedule with the server (how often the data is acquired), etc. The value set by COPIER> FUNCTION> INSTALL> E-RDS, RGW-PORT, RGW-ADR, COM-LOG is cleared.
Use Case		When clear the SRAM of the "internal setting values".
Adj/Set/Operate Method		Select the item, and then press OK key.
Display/Adj/Set Range		At normal termination: OK!, At abnormal termination: NG!
Related Service Mode		COPIER> FUNCTION> INSTALL> E-RDS, RGW-PORT, RGW-ADR, COM-LOG

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > CLEAR

REG-CLR	2	Clear of image position correction value
Detail	To clear the correction value when the value which is adjusted by image position correction control is an erratic value for some reason. When color displacement is not corrected by image position correction control, clear the correction value once with this item. Then, either turn OFF/ON the power or execute auto gradation adjustment (quick adjustment) so that image position correction control is performed again. If color displacement occurs due to image skew, use LD-ADJ-Y/M/C/K in parallel.	
Use Case	- When color displacement cannot be corrected although image position correction control is performed - When color displacement occurs due to image skew	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Related Service Mode	COPIER> FUNCTION> LASER> LD-ADJ-Y/M/C/K	
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Auto Adjust Gradation> Quick Adjust	
USBM-CLR	1	Initialize USB MEAP priority rgst info
Detail	To initialize the registered ID data retained in the OS field by calling the API provided by the OS.	
Use Case	When a failure occurs in USB MEAP priority registration	
Adj/Set/Operate Method	Select the item, and then press OK key.	
1TR-CLR	2	Clear primary transfer ATVC control log
Detail	To clear the primary transfer ATVC control log. Although primary transfer ATVC control is executed based on the log information, dramatic changes in the resistance of the Primary Transfer Roller, etc. may prevent an optimum transfer bias from being set because the control does not work properly. When the current value (1ATVC-Y/M/C/K4) flowed to the Primary Transfer Roller at ATVC control is out of the appropriate target value range (50 to 700), the appropriate control can be executed by clearing the log information.	
Use Case	- When replacing the Primary Transfer Roller - When the environment (temperature and humidity) changes dramatically - When an image failure due to the primary transfer occurs	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Related Service Mode	COPIER> DISPLAY> HV-STS> 1ATVC-Y/M/C/K4 COPIER> FUNCTION> CLEAR> 1TR-CLR	
JV-CACHE	1	Cache clear of JAVA application
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To clear the cache information used by JAVA application.	
Use Case	When initializing the JAVA application	
Adj/Set/Operate Method	Select the item, and then press OK key.	
LANG-CLR	2	Uninstallation of language files
Detail	To uninstall the language files other than Japanese and English files installed in HDD. When installing a new language file while the maximum number of language files (11 files) have been already installed, an existing language file needs to be uninstalled.	
Use Case	When deleting/switching language files	
Adj/Set/Operate Method	1) Select the item, and then press OK key. 2) Download the firmware in which the necessary language files are included using SST or a USB flash drive.	
Caution	A language file is not uninstalled unless the downloaded language files are installed by SST or a USB flash drive after the execution of this item. If installation is not executed, uninstallation will be canceled. (Status of the machine remains the same as it was before execution.)	
Supplement/Memo	- After the execution, language displayed on the screen becomes English. Switch the language as needed. - There are 9 language files (JEFIGSCKT) installed at the time of shipment.	

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > CLEAR

FIN-MCON	1	Initial delvry dest info in controller
Detail	To initialize the delivery destination information which is stored in the Main Controller. The information needs to be cleared when the delivery destination is changed due to change in configuration of delivery options; otherwise, malfunction occurs. After execution, set the delivery destination again in [Output Tray Settings] in [Settings/Registration].	
Use Case	When changing the configuration of delivery options	
Adj/Set/Operate Method	1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch.	
Additional Functions Mode	Function Settings> Common> Paper Output Settings> Output Tray Settings	
PLPW-CLR	2	Clear security policy setting password
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To clear the password of the security administrator set in the security policy settings.	
Use Case	When clearing the password of the security administrator	
Adj/Set/Operate Method	Select the item, and then press OK key.	
JV-TYPE	1	Specification of MEAP cache clear target
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To specify the MEAP cache area to be cleared. The target area is divided into the 4 parts: - A jar file of MEAP application bundled as standard - Data of the application mentioned above - A jar file of MEAP application installed additionally - Data of the application mentioned above When JV-CACHE is executed, the area specified with this item is cleared. For details, refer to the Service Manual.	
Use Case	When analyzing the cause of a problem due to MEAP application	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 4 0: Entire MEAP cache area 1: A jar file of MEAP application bundled as standard 2: A jar file and data of MEAP application bundled as standard 3: Data of MEAP application which has been installed additionally 4: A jar file and data of MEAP application which has been installed additionally	
Related Service Mode	COPIER> FUNCTION> CLEAR> JV-CACHE	
Supplement/Memo	MEAP applications bundled as standard: system application, built-in login application MEAP applications installed additionally: non-Canon-made login application, general application, etc.	
DK-RCV	1	Clearing of Paper Deck alarm
Detail	To clear the alarm occurred in the Paper Deck.	
Use Case	At recovery	
Adj/Set/Operate Method	1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch.	
CUSTOM2	2	[For customization]
CNT-RCON	1	Clear of RCON service counter
Detail	To clear the service counter counted by the RCON management software.	
Use Case	When clearing the service counter counted by the RCON	
Adj/Set/Operate Method	Select the item, and then press OK key.	
TPM-DA	2	For R&D

■ MISC-R

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > MISC-R

SCANLAMP	1	Lighting check of Scanner Unit (frt) LED
Detail		To light up the Scanning Lamp for 3 seconds under the White Plate and the Copyboard Glass respectively.
Use Case		When replacing the LED of the Scanner Unit
Adj/Set/Operate Method		Select the item, and then press OK key.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
1PSCLB-A	1	DADF 2 faces color differ crrect (front)
Detail		To acquire scanning data on the front side in order to correct the color difference between the front and back side at the time of duplex stream reading. A significant color difference may occur between the front and back side of the image scanned on DADF caused by variations in the LED and changes in durability. Such a color difference is corrected by executing 1PSCLB-B following 1PSCLB-A.
Use Case		When a significant color difference occurs between the front and back side at DADF duplex reading
Adj/Set/Operate Method		1) Set paper on the DADF. 2) Select the item, and then press OK key.
Caution		Do not turn OFF/ON the main power switch before executing 1PSCLB-B even though OK is displayed by 1PSCLB-A.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Related Service Mode		COPIER> FUNCTION> MISC-R> 1PSCLB-B
1PSCLB-B	1	DADF 2 faces color differ crrect (back)
Detail		To acquire scanning data on the back side in order to correct the color difference between the front and back side at the time of duplex stream reading. A significant color difference may occur between the front and back side of the image scanned on DADF caused by variations in the LED and changes in durability. Such a color difference is corrected by executing 1PSCLB-B following 1PSCLB-A.
Use Case		When a significant color difference occurs between the front and back side at DADF duplex reading
Adj/Set/Operate Method		1) Set the document used by 1PSCLB-A on DADF, so that the front side is faced down and the cyan image is placed at the left rear side. 2) Select the item, and then press OK key.
Caution		Do not turn OFF/ON the main power switch before executing 1PSCLB-B even though OK is displayed by 1PSCLB-A.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Related Service Mode		COPIER> FUNCTION> MISC-R> 1PSCLB-A
1PCLBSET	1	DADF 2 faces color differ crrect ref side
Detail		To set which side (the front or back side) should be the reference side when correcting a color difference at the time of duplex stream reading. The correction result is reflected after executing the following operation: specify the reference side, execute a series of color difference correction processing, and then turn OFF/ON the power.
Use Case		Before correcting color difference in DADF duplex reading
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 2 0: N/A, 1: Front side, 2: Back side
Default Value		0

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > MISC-R

1PCLBUDR	1	DADF 2 faces clr differ crrect lowr limit
Detail	To keep colors which do not need to be corrected at DADF duplex stream reading, the correction amount is adjusted so that the effect of correction is weakened. The result is reflected when correction of color difference is executed again after the setting is made. When 1 is set, unnecessary correction is not executed, but an expected effect may not be obtained for other colors.	
Use Case	When color difference occurs on the colors which did not have any difference before correction	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	Expected correction result may not be obtained.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
1PCLBOVR	1	DADF 2 faces clr differ crrect upr limit
Detail	Excessive correction is sometimes made when correcting color difference in duplex stream reading. To prevent it happens, adjust the correction amount to weaken the effect of the correction. The result is reflected when correction of color difference is executed again after the setting is made. When 1 or 2 is set, excessive correction is not executed, but an expected effect may not be obtained for other colors.	
Use Case	When color difference occurs on the colors which did not have any difference before correction	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	Expected correction result may not be obtained.	
Display/Adj/Set Range	0 to 2 0: No control, 1: Weak control, 2: Strong control	
SCANLMP2	1	Lighting check of Scanner Unit (bck) LED
Detail	To light up the LED of the Scanner Unit (for back side) for 3 sec. Check whether there is a missing block or no lighting in LED.	
Use Case	When replacing the LED of the Scanner Unit	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Display/Adj/Set Range	During operation: ACTIVE, When operation finished normally: OK!	
RD-SHPOS	2	Moving to Reader Scanner Unit fix pstn
Detail	To move the Reader Scanner Unit to the position where it is secured in when moving. When moving the Reader after installation, the Reader Scanner Unit may move and get damage. By moving the Scanner Unit to the specified position and securing it in place with a screw before moving, damage can be prevented.	
Use Case	When moving the Reader after installation	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Caution	Be sure to move the Scanner Unit to the fixing position and secure it in place with a screw when moving the Reader after installation. Otherwise, the Scanner Unit may get damage.	
Display/Adj/Set Range	During operation: ACTIVE, When operation finished normally: OK!	

■ MISC-P

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > MISC-P

P-PRINT	1	Output of service mode setting values
Detail		To output the service mode setting values. Text data is saved in HDD as a file (P-PRINT-RPT.TXT).
Use Case		Before executing the CLEAR service mode, etc.
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		Be sure to use A4/LTR size plain paper/recycled paper.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Related Service Mode		COPIER> FUNCTION> MISC-P> RPT-FILE
HIST-PRT	1	Output of jam and error logs
Detail		To output the jam log and error log. Text data is saved in HDD as a file (HIST-PRT-RPT.TXT).
Use Case		When outputting the jam/error log
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		Be sure to use A4/LTR size plain paper/recycled paper.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Related Service Mode		COPIER> FUNCTION> MISC-P> RPT-FILE
TRS-DATA	2	Moving memory reception data to Inbox
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To move the data received in memory to Inbox.
Use Case		When moving the data received in memory to Inbox
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch.
Additional Functions Mode		Fax/I-Fax Inbox> Memory RX Inbox
USER-PRT	1	Settings/Registration menu list output
Detail		To output Settings/Registration menu list. Text data is saved in HDD as a file (USER-PRT-RPT.TXT).
Use Case		When outputting Settings/Registration menu list.
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		Be sure to use A4/LTR size plain paper/recycled paper.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Related Service Mode		COPIER> FUNCTION> MISC-P> RPT-FILE
Supplement/Memo		It takes approximately 3 seconds before output starts.
LBL-PRNT	1	Output of service label
Detail		To print the service label.
Use Case		When printing the service label
Adj/Set/Operate Method		1) Place A4/LTR paper in Cassette 1. 2) Select the item, and then press OK key.
Caution		Be sure to use A4/LTR size plain paper/recycled paper.
1ATVC-EX	1	Exe of primary transfer ATVC control
Detail		To execute the primary transfer ATVC control. Execute this item for 1/1 speed and 1/2 speed in order.
Use Case		When reflecting the changed target current of primary transfer ATVC control
Adj/Set/Operate Method		Select the item, and then press OK key.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Related Service Mode		COPIER> ADJUST> HV-TR> 1TR-TGY/TGM/TGC/TGK1/TGY2/TGM2/TGC2/TGK2 COPIER> DISPLAY> HV-STS> 1ATVC-Y/M/C/K4

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > MISC-P

ENV-PRT	1	Outpt inside temp&hmdy/Fix Rol temp log
Detail		To output data of the temperature and humidity inside the machine/surface temperature of the Fixing Roller as a log. Text data is saved in HDD as a file (ENV-PRT-RPT.TXT).
Use Case		When figuring out the past temperature inside the machine/fixing temperature information at problem analysis
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		Be sure to use A4/LTR size plain paper/recycled paper.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Related Service Mode		COPIER> FUNCTION> MISC-P> RPT-FILE
PJH-P-1	1	Outpt print job log detail info:100 jobs
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To output the print job logs of the latest 100 jobs with detailed information. In the case of less than 100 jobs, the logs of all print jobs are output. Text data is saved in HDD as a file (PJH-P-1-RPT.TXT).
Use Case		When outputting the print job logs with detailed information
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		Be sure to use A4/LTR size plain paper/recycled paper.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Related Service Mode		COPIER> FUNCTION> MISC-P> RPT-FILE
Supplement/Memo		Output the print job logs with detailed information which are not displayed/output in the job log screen under "System Monitor>Print>Log>Printer" and in the report of the print job log.
PJH-P-2	1	Outpt print job log detail info:all jobs
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To output all print job logs stored in the machine with detailed information (for maximum 5000 jobs). The difference between PJH-P-1 and this item is only the number of jobs output. Text data is saved in HDD as a file (PJH-P-2-RPT.TXT).
Use Case		When printing the print job history with detailed information
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		Be sure to use A4/LTR size plain paper/recycled paper.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Related Service Mode		COPIER> FUNCTION> MISC-P> RPT-FILE
Supplement/Memo		Output the print job logs with detailed information which are not displayed/output in the job log screen under "System Monitor>Print>Log>Printer" and in the report of the print job log.
AT-IMG-X	1	Exe image position correction control
Detail		To execute a series of image position correction control operation at parts replacement. The printer engine usually executes image position correction control at the specific timing according to the operation status and environment change.
Use Case		- When removing the Drum Unit - When releasing pressure from the ITB
Adj/Set/Operate Method		Select the item, and then press OK key.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
USBH-PRT	1	Output of USB device information report
Detail		To output information of the connected USB device in the form of a report. Text data is saved in HDD as a file (USBH-PRT-RPT.TXT).
Use Case		When outputting information of the USB device in the form of a report
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		Be sure to use A4/LTR size plain paper/recycled paper.
Display/Adj/Set Range		During operation: ACTIVE, When operation finished normally: OK!
Related Service Mode		COPIER> FUNCTION> MISC-P> RPT-FILE

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > MISC-P

ITB-INIT	1	Initial adj of ITB reference position
Detail		To make an initial adjustment of the reference position of the ITB displacement correction control. The reference position in black mode can be checked by ITB-POS, and it in color mode can be checked by ITB-POS2.
Use Case		- At installation - At replacement of ITB-related parts
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		Be sure to execute this item after closing all covers.
Display/Adj/Set Range		During operation: ACTIVE, At normal termination: OK, At abnormal termination: NG
Related Service Mode		COPIER> DISPLAY> MISC> ITB-POS/POS2
RPT-FILE	1	Output of report print file
Detail		To save various service reports in HDD as a file. The files can be obtained using PC to which SST has been installed or USB flash drive after starting the machine in download mode.
Use Case		When obtaining the service report as a file instead of printing the report out
Adj/Set/Operate Method		Select the item, and then press OK key.
Supplement/Memo		File size: Approx. 1 MB at a maximum
RPT2USB	1	Write serv rpt file to USB flash drive
Detail		To store the report file of service mode saved in HDD by RPT-FILE to a USB flash drive.
Use Case		When storing the report file of service mode to a USB flash drive
Adj/Set/Operate Method		Select the item, and then press OK key.
Related Service Mode		COPIER> FUNCTION> MISC-P> RPT-FILE
TNRB-PRT	1	Output of Toner Container ID report
Detail		To output the ID of the Toner Container in the form of a report. Text data is saved in HDD as a file (TNRB-PRT-RPT.TXT).
Use Case		When checking the ID of the Toner Container
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		Be sure to use A4/LTR size plain paper/recycled paper.
Related Service Mode		COPIER> FUNCTION> MISC-P> RPT-FILE

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > MISC-P

PSCL-PRT	1	Output grdtn/clr tone crrect log report
Detail		To output the execution log of auto gradation adjustment/auto correction color tone in the form of a report.
Use Case		When checking the correction log
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		FUL-01: Auto gradation adjustment => Full adjustment => [Start Printing] FUL-02: Same as above (Paper type 2) FUL-03: Same as above (Paper type 3) FULLR-01: Full adjustment => End of test pattern reading FULLR-02: Same as above (Paper type 2) FULLR-03: Same as above (Paper type 3) FULLQ-01: Full adjustment => End of internal calibration FULLQ-02: Same as above (Paper type 2) FULLQ-03: Same as above (Paper type 3) QUI-01: Auto gradation adjustment => Quick adjustment => [Start] => or start quick adjustment at the specified time for auto gradation adjustment QUI-02: Same as above (Paper type 2) QUI-03: Same as above (Paper type 3) QUIT: Start quick adjustment at the specified time for auto gradation adjustment QUIR-01: Quick adjustment => End of internal calibration QUIR-02: Same as above (Paper type 2) QUIR-03: Same as above (Paper type 3) SHA: Uneven density correction => [Store and Finish]
Display/Adj/Set Range		COLR-02: Auto correction color tone settings => Registration of correction pattern => Registration of correction pattern 2 COLR-03: Auto correction color tone settings => Registration of correction pattern => Registration of correction pattern 3 COLR-04: Auto correction color tone settings => Registration of correction pattern => Registration of correction pattern 4 COLR-05: Auto correction color tone settings => Registration of correction pattern => Registration of correction pattern 5 COL: Auto correction color tone settings => Complete MED-01: Auto gradation adjustment => Registration of paper to adjust => Registration of paper to adjust 1 MED-04: Same as above (Paper type 2) MED-07: Same as above (Paper type 3) MED-02: Auto gradation adjustment => Registration of paper to adjust => Registration of paper to adjust 2 MED-05: Same as above (Paper type 2) MED-08: Same as above (Paper type 3) MED-03: Auto gradation adjustment => Registration of paper to adjust => Registration of paper to adjust 3 MED-06: Same as above (Paper type 2) MED-09: Same as above (Paper type 3) RADJERR: Abnormal termination of internal gradation calibration
Y-DRPRT	1	Output of drum report (Y)
Detail		To output the Y-color drum report.
M-DRPRT	1	Output of drum report (M)
Detail		To output the M-color drum report.
C-DRPRT	1	Output of drum report (C)
Detail		To output the C-color drum report.
K-DRPRT	1	Output of drum report (Bk)
Detail		To output the Bk-color drum report.
FIXPRT	1	Output of Fixing Unit report
Detail		To output the Fixing Unit report.

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > MISC-P

DRM-ASPD	1	Auto adjustment of Drum Motor speed
Detail		To automatically adjust the rotation speed of the Drum Motor to make the peripheral speeds of the Photosensitive Drum and ITB matched. When this item is executed, patches are formed on the ITB while changing the rotation speed in 5 levels. Rotation speed at which the patch intervals read by the Patch Sensor are the most stable is selected.
Use Case		- When replacing the ITB Unit/ITB/Drive Roller - When color displacement occurs
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		Use this item when color displacement is not alleviated by executing ITB-INIT or auto color displacement correction.
Required Time		70 sec
Related Service Mode		COPIER> FUNCTION> MISC-P> ITB-INIT
Additional Functions Mode		Adjustment/Maintenance> Adjust Image Quality> Auto Correct Color Mismatch

■ SYSTEM

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > SYSTEM

DOWNLOAD	1	Shift to download mode
Detail		To make the machine enter the download mode and wait for a command. Perform downloading by SST or a USB flash drive.
Use Case		At upgrade
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Perform downloading by SST or a USB flash drive.
Caution		Do not turn OFF/ON the power during downloading.
Supplement/Memo		SST: Service Support Tool

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > SYSTEM

CHK-TYPE	1	Spec HD-CLEAR/HD-CHECK exe partition No.
Detail		To specify the partition number of the HDD to execute HD-CLEAR/HD-CHECK.
Use Case		When executing HD-CLEAR/HD-CHECK
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 65535 0: All partitions (only the areas where the operation can be executed) 1: PDL-related file storage area 2: Image data storage area 3: MEAP-related area 4: Not used 5 and 6: Image data storage area 7: General application temporary area (temporary file) 8: General application-related area 9: PDL spool data (temporary file) 10: SEND-related area 11: Update-related area 12: License-related area 13: System area 14: SWAP (temporary file/memory alternative area) 15 to 16: Not used 17: Debug log area 18: Advanced Box image data storage area 19: Print data storage area 20 to 65535: Not used * When 4, 12, 13, 15 or 16 is set, nothing is cleared even if HD-CLEAR is executed. * For 2, 5 and 6, HD-CLEAR/HD-CHECK is executed to all of the areas by selecting one of them. * By selecting 8, HD-CLEAR/HD-CHECK is also executed to 7, 9, 11 and 17.
Default Value		0
Related Service Mode		COPIER> FUNCTION> SYSTEM> HD-CLEAR, HD-CHECK
HD-CHECK	1	File system check of specified partition
Detail		To execute system check of the partition specified by CHK-TYPE at the next startup.
Use Case		When E602/E614 error (file corruption, etc.) occurs
Adj/Set/Operate Method		Enter 1, and then press OK key.
Caution		Be sure to execute this item after CHK-TYPE.
Display/Adj/Set Range		0 to 1 0: Not executed, 1: Executed at next startup
Default Value		0
Related Service Mode		COPIER> FUNCTION> SYSTEM> CHK-TYPE
HD-CLEAR	1	Initialization of specified partition
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To initialize the partition specified by CHK-TYPE at next startup.
Use Case		When E602/E614 error (file corruption, etc.) occurs
Adj/Set/Operate Method		Enter 1, and then press OK key.
Caution		Be sure to execute this item after CHK-TYPE.
Display/Adj/Set Range		0 to 1 0: Not executed, 1: Executed at next startup
Default Value		0
Related Service Mode		COPIER> FUNCTION> SYSTEM> CHK-TYPE

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > SYSTEM

DSRAMBUP	2	Backup of DC Controller PCB SRAM
Detail	To back up the setting data in SRAM of the DC Controller PCB.	
Use Case	When replacing the DC Controller PCB for troubleshooting at the time of trouble occurrence	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Caution	During operation, the setting data changes by manual or automatic adjustment. When backup data which has been left for a long period of time is restored, it is overwritten with new setting data and the old data is deleted.	
Related Service Mode	COPIER> FUNCTION> SYSTEM> DSRAMRES	
DSRAMRES	2	Restore of DC Controller PCB SRAM
Detail	To restore the setting data which has been backed up in SRAM of the DC Controller PCB.	
Use Case	When replacing the DC Controller PCB for troubleshooting at the time of trouble occurrence	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Caution	During operation, the setting data changes by manual or automatic adjustment. When backup data which has been left for a long period of time is restored, it is overwritten with new setting data and the old data is deleted.	
Related Service Mode	COPIER> FUNCTION> SYSTEM> DSRAMBUP	
RSRAMBUP	2	Backup of Reader Controller PCB SRAM
Detail	To back up the setting data in SRAM of the Reader Controller PCB.	
Use Case	When replacing the Reader Controller PCB for troubleshooting at the time of trouble occurrence	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Caution	During operation, the setting data changes by manual or automatic adjustment. When backup data which has been left for a long period of time is restored, it is overwritten with the old setting data and the new data is deleted.	
Related Service Mode	COPIER> FUNCTION> SYSTEM> RSRAMRES	
RSRAMRES	2	Restore of Reader Controller PCB SRAM
Detail	To restore the setting data which has been backed up in SRAM of the Reader Controller PCB.	
Use Case	When replacing the Reader Controller PCB for troubleshooting at the time of trouble occurrence	
Adj/Set/Operate Method	1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	During operation, the setting data changes by manual or automatic adjustment. When backup data which has been left for a long period of time is restored, it is overwritten with the old setting data and the new data is deleted.	
Related Service Mode	COPIER> FUNCTION> SYSTEM> RSRAMBUP	
R-REBOOT	1	Reboot of host machine (Remote)
Detail	To reboot the host machine.	
Use Case	When the reboot is carried out with the remote control by VNC	
Adj/Set/Operate Method	Select the item, and then press OK key.	
FIXIP	1	Start of fixed IP mode
Detail	IP address is set to "172.16.1.100". In an environment where wired LAN (main) and wireless LAN (sub) are used, the IP address of wired LAN becomes the fixed IP. During the fixed IP mode, "FIXIP" is displayed on the upper left of the screen.	
Use Case	When preferring to use the network settings with the fixed IP address "172.16.1.100"	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Caution	- It is necessary to turn OFF/ON the power to recover from the fixed IP mode. - Whether to use RUI or not when the fixed IP mode is enabled follows the setting of "Management Settings> License/Other> Remote UI."	

■ DBG-LOG

COPIER (Service mode for printer) > FUNCTION (Operation / inspection mode) > DBG-LOG

LOG-TRIG	2	Set of debug log storage condition
Detail		To set the conditions (timing, types, etc.) to automatically store the debug logs (stored as an archive file). By reading the operation setting file of the setting value from the Main Controller, the conditions written in the file are set. When setting a new condition is necessary, read the operation setting file provided by R&D from the USB memory.
Use Case		- When changing the conditions of debug log to automatically store - When setting a new condition
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 99999
Default Value		0
Related Service Mode		COPIER> FUNCTION> DBG-LOG> LOG2USB, LOG2SRVR
HIT-STS	2	Display of debug log state
Detail		To display whether archive file of the debug log which is matched with the conditions set in LOG-TRIG exists or not.
Use Case		When checking the debug log automatically saved
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 1 0: No log is available, 1: Log is available
Related Service Mode		COPIER> FUNCTION> DBG-LOG> LOG-TRIG
DEFAULT	2	Reset of debug log setting
Detail		To clear all debug log settings and return to the state before debug log collection operation.
Use Case		- When returning the device in which analyzing the cause of a problem was completed - When resetting the debug log settings
Adj/Set/Operate Method		Select the item, and then press OK key.
LOG-DEL	2	Clearing of debug logs
Detail		To delete the debug log file. The debug log setting is not reset.
Use Case		When clearing the debug log
Adj/Set/Operate Method		Select the item, and then press OK key.

OPTION (Specification setting mode)

■ FNC-SW

COPIER (Service mode for printer) > OPTION (Specification setting mode) > FNC-SW

MODEL-SZ	1	Fixed magnifictn & DADF orgnl dtct size
Detail		To set the fixed magnification ratio display and the original detection size with DADF. It is set automatically at the time of installation of the Reader according to the location.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 3 0: AB configuration (6R5E) for Japan, 1: Inch configuration (5R4E) for North/Middle/South America, 2: A configuration (3R3E) for Europe, 3: AB/Inch configuration (6R5E) for Asia, Oceania, South America
Default Value		It differs according to the location.

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SCANSLCT	2	ON/OFF of scan area calculate function
Detail	To set ON/OFF of the function to calculate scanning area from the specified paper size. When the paper size is larger than the original size, selecting ON reduces productivity because the scanning area gets larger.	
Use Case	When matching the scanning area with the paper size	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF (calculated from the detected original size) 1: ON (calculated from the specified paper size)	
Default Value	0	
DH-SW	2	Set of D-max/multi tone ctrl: 1st rotn
Detail	To set whether to execute D-max control and D-half control (real-time multiple tone control) at last rotation. Set 0 when an image failure occurs due to D-half control or when identifying the cause. Only D-max control is executed. Due to D-half/D-max control at last rotation, significant hue variation may occur between jobs. Set 2 when the user cannot tolerate the variation. Neither D-max control nor D-half control is executed. Set the execution interval of the control with INTROT-2.	
Use Case	- When an image failure occurs due to D-half control/when identifying the cause of the failure - When the user cannot tolerate the hue variation between jobs	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	- When 0 is set, change the setting back to 1 after cause of the failure is identified. - When 0 or 2 is set, execute auto gradation adjustment (full/quick adjustment) periodically. If the setting value is kept as 0 or 2, it cannot handle hue variation due to advancement of life and environmental changes.	
Display/Adj/Set Range	0 to 2 0: D-half control: OFF, D-max control: ON 1: D-half/D-max control: ON 2: D-half/D-max control: OFF	
Default Value	1	
Related Service Mode	COPIER> OPTION> FNC-SW> INTROT-2	
SENS-CNF	2	Setting of original detection size
Detail	To set original detection size according to AB configuration/Inch configuration. Set 0 for AB configuration machine, and set 1 for Inch configuration machine.	
Use Case	When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: AB configuration, 1: Inch configuration	
Default Value	0	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > FNC-SW

CONFIG	1	Set country/regn/lang/location/ppr size
Detail		To set the country/region, language, location, paper size configuration for multiple system software in HDD.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Select the setting item. 2) Switch with +/- key, and then press OK key. 3) Turn OFF/ON the main power switch.
Display/Adj/Set Range		XX YY.ZZ.AA XX: Country/region JP: Japan, US: USA, GB: Great Britain, FR: France, DE: Germany, IT: Italy, AU: Australia, SG: Singapore, NL: Netherlands, KR: Korea, CN: China, TW: Taiwan, ES: Spain, SE: Sweden, PT: Portugal, NO: Norway, DK: Denmark, FI: Finland, PL: Poland, HU: Hungary, CZ: Czech Republic, SI: Slovenia, GR: Greece, EE: Estonia, RU: Russia, SK: Slovakia, RO: Romania, HR: Croatia, BG: Bulgaria, TR: Turkey, TH: Thailand, VN: Vietnam, AR: Argentina, IN: India YY: Language (Fixed; e.g. ja: Japanese) ZZ: Location (Fixed; e.g. 00: CANON) AA: Paper size configuration (00: AB configuration, 01: Inch configuration, 02: A configuration, 03: Inch/AB configuration)
Default Value		It differs according to the location.
Related Service Mode		COPIER> OPTION> FNC-SW> MODEL-SZ
W/SCNR	1	Setting of Reader Unit installation
Detail		To set installation of the Reader Unit. When the Reader Unit is detected at startup of the machine, "1: Installed" is set automatically.
Use Case		When installing/removing the Reader Unit
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Not installed, 1: Installed
Default Value		0 (Printer model)/1 (Copier model)
ORG-LGL	2	Special ppr size set at stream read: LGL
Detail		To set the size of special paper (LGL configuration) that cannot be recognized at stream reading.
Use Case		- Upon user's request - When picking up special paper size original from DADF
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 12 0: LEGAL-R, 1: FOOLSCAP-R/FOLIO-R, 2: OFICIO-R, 3: Not used, 4: Australian FOOLSCAP-R, 5: Ecuador OFICIO-R, 6: Bolivia OFICIO-R, 7: Argentine OFICIO-R, 8: Not used, 9: Government LEGAL-R, 10: Mexico OFICIO-R, 11: F4A, 12: India LEGAL-R
Default Value		0
ORG-LTR	2	Special ppr size set at stream read: LTR
Detail		To set the size of special paper (LTR configuration) that cannot be recognized at stream reading.
Use Case		- Upon user's request - When picking up special paper size original from DADF
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 3 0: LETTER, 1: EXECUTIVE, 2: Argentine LETTER, 3: Government LETTER
Default Value		0

COPIER (Service mode for printer) > OPTION (Specification setting mode) > FNC-SW

ORG-LTRR	2	Special ppr size set at stream read:LTRR
Detail		To set the size of special paper (LTRR configuration) that cannot be recognized at stream reading.
Use Case		- Upon user's request - When picking up special paper size original from DADF
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 5 0: LTR-R, 1: G-LTR-R, 2: A-LTR-R, 3: EXECUTIVE-R, 4: OFICIO-R, 5: Ecuador OFICIO-R
Default Value		0
ORG-LDR	2	Special ppr size set at stream read: LDR
Detail		To set the size of special paper (LDR configuration) that cannot be recognized at stream reading.
Use Case		- Upon user's request - When picking up special paper size original from DADF
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: LEDGER-R, 1: Argentine LETTER
Default Value		0
ORG-B5	2	Special ppr size set at stream read: B5
Detail		To set the size of special paper (B5) that cannot be recognized at stream reading.
Use Case		- Upon user's request - When picking up special paper size original from DADF
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: B5, 1: Korean government office paper
Default Value		0
INTROT-1	1	Set ppr interval auto adj exe interval
Detail		To set the number of sheets as the intervals to execute automatic adjustments (discharge current control and primary transfer ATVC control) at paper interval. When the number of sheets reaches the specified value, the adjustments are executed at next paper interval. After starting a job, however, the adjustments are not executed until the number of sheets reaches the value set in INTPPR-2. As the value is increased, frequency of the automatic adjustments becomes low so productivity is increased.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		If the value is too large, image failure may occur.
Display/Adj/Set Range		50 to 1000
Unit		sheet
Default Value		250
Related Service Mode		COPIER> OPTION> IMG-SPD> INTPPR-2
Amount of Change per Unit		1

COPIER (Service mode for printer) > OPTION (Specification setting mode) > FNC-SW

INTROT-2	1	Set auto adj exe intvl at last rotation
Detail		To set the number of sheets as the intervals to execute automatic adjustments (D-max control and real-time multiple tone control) at last rotation. As the value is changed by 1, the number of sheets is changed by 1 sheet. As the value is increased, frequency of the automatic adjustments becomes low so productivity is increased.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		If the value is too large, image failure may occur.
Display/Adj/Set Range		50 to 2000
Unit		sheet
Default Value		1000
Amount of Change per Unit		1
BK-4CSW	2	Set color mode: 1/2 SPD, single Bk mode
Detail		To set the color mode of single Bk-color image at 1/2 speed.
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Black mode, 1: Color mode
Default Value		1
MODELSZ2	2	Ppr size dtct global support in bookmode
Detail		To set whether to enable global support of original size detection at Copyboard reading.
Use Case		Upon user's request (original consists of mixed media (AB/Inch configuration))
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		The Document Size Sensor (Photo Sensor) is additionally required to correctly detect the document size when the original consists of mixed media (AB/Inch configuration).
Display/Adj/Set Range		0 to 1 0: Detected with detection size according to location, 1: Detected with AB/Inch mixed media.
Default Value		0
SVMD-ENT	2	Setting of entry method to service mode
Detail		To set the way to get in service mode to prevent information leak.
Use Case		As needed
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Factory default 1: [Settings/Registration] - Pressing [4] and [9] at the same time - [Settings/Registration]
Default Value		0

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FXWRNLVL	2	Set Fix Film life display threshold VL
Detail	To set the threshold value to display the life of Fixing Film. This item is used to prevent the occurrence of fixing failure caused by the continuous use of the Fixing Film beyond its life. When FXMSG-SW is 1, this setting is enabled. The counter for life judgment is stored in the DC Controller. The counter value cannot be changed and checked.	
Use Case	When continuing to use the Fixing Unit beyond the life of the Fixing Film	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 3 0: Warning is hidden. 1: Warning is displayed when the counter for life judgment reaches the specified value. (Driving time: 375 hours) 2: Warning is displayed when the counter for life judgment reaches the specified value. (Number of sheets: 300000 sheets) 3: Warning is displayed when the counter for life judgment reaches the specified value. (Both driving time and number of sheets)	
Default Value	0	
Related Service Mode	COPIER> OPTION> DSPLY-SW> FXMSG-SW	
KSIZE-SW	2	Set of Chinese paper (K-size) support
Detail	To set to detect/display the Chinese paper (K size paper: 8K, 16K).	
Use Case	When using K size paper	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Not supported, 1: Supported	
Default Value	It differs according to the location.	
Related Service Mode	COPIER> OPTION> FNC-SW> MODEL-SZ	
Supplement/Memo	8K paper: 270 x 390 mm, 16K paper: 270 x 195 mm	
ORG-A4R	2	Special ppr size set at stream read: A4R
Detail	To set the size of special paper (A4R) that cannot be recognized at stream reading. When picking up A4R size original from the DADF of the Inch/AB configuration models, the size is converted into the specified size so that an image can be formed properly.	
Use Case	- Upon user's request - When picking up special paper size original from DADF	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: A4R, 1: FOLIO-R	
Default Value	0	
PDF-RDCT	2	PDF reduction set at forwarding
Detail	To set whether to reduce the image for transmission when converting the image received by I-Fax into PDF for e-mail/file transmission.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Following the current setting, 1: Image reduction	
Default Value	0	
REBOOTSW	2	[Not used]

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SJB-UNW	2	Reserve upper limit of secured print job
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the upper limit for the number of reserved jobs in secured print job.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 2 0: 50 jobs, 1: 90 jobs, 2: No limit	
Default Value	1	
CARD-RNG	2	Card number setting (department number)
Detail	To set the number of cards (departments) that can be used with the Card Reader.	
Use Case	When setting the number of cards (departments)	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	1 to 1000	
Default Value	1000	
SJOB-CL	1	Set of scan job canceling by logout
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to cancel the scan job in operation by logout of the user.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	The job with scanning completed cannot be canceled.	
Display/Adj/Set Range	0 to 2 0: Cancel only scan job in waiting state, 1: Cancel all scan jobs, 2: Not canceled	
Default Value	0	
Supplement/Memo	Scan job: A job after the scanning operation is completed.	
DELV-FN2	2	Set of Delivery Fan 2 airflow at 1-sided
Detail	To set the airflow amount of the Delivery Fan 2 (FM9) at a 1-sided job.	
Use Case	When the stacking condition of paper is low at the time of delivery of a 1-sided job	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	When setting 1 or 2, be sure to receive approval from the user in advance by explaining the following. - Fan noise becomes louder. - Curl may get worse (especially with moist paper).	
Display/Adj/Set Range	0 to 2 0: OFF, 1: Half speed, 2: Full speed	
Default Value	0	
MIBCOUNT	2	Scope range set of Charge Counter MIB
Detail	To set the range of counter information that can be obtained as MIB (Management Information Base).	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 2 0: All charge counters are obtained, 1: Only displayed counter* is obtained, 2: All charge counters are not obtained * : Counter specified by the following: COPIER> OPTION> USER> COUNTER 1 to 6	
Default Value	0	
Related Service Mode	COPIER> OPTION> USER> COUNTER1 - COUNTER6	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > FNC-SW

CNTR-SW	1	Init of parts counter replacement timing
Detail		To return the estimated life of parts counter to the initial value. If either "00000000" or a value before the specification change is displayed in the estimated life value of the parts counter, set 0 after upgrading of the firmware.
Use Case		- When either "00000000" or a value before the specification change is displayed in the estimated life value of the parts counter - When changing the state back to the initial state after entering the estimated life value manually
Adj/Set/Operate Method		1) Enter 0, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0: Returned to the initial value
Default Value		0
W/RAID	1	Set of HDD Mirroring Kit installation
Detail		To set installation condition of HDD Mirroring Kit. Select "1: Installed" when installing the HDD Mirroring Kit. Select "0: Not installed" when removing the HDD Mirroring Kit.
Use Case		When installing/removing HDD Mirroring Kit
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Not installed, 1: Installed
Default Value		0
PSWD-SW	1	Password type set to enter service mode
Detail		To set the type of password that is required to enter when getting into service mode. 2 types are available: one for "service technician" and the other for "system administrator + service technician". When selecting the type for "system administrator + service technician", enter the password for service technician after the password entry by the user's system administrator.
Use Case		Upon request from the user who concerns security
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 2 0: No password, 1: Service technician, 2: System administrator + service technician
Default Value		0
SM-PSWD	2	Password setting for service technician
Detail		To set password for service technician that is used when getting into service mode.
Use Case		When password is required to get into service mode
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Be sure to select 1 or 2 with PSWD-SW in advance.
Display/Adj/Set Range		1 to 99999999
Default Value		11111111
Related Service Mode		COPIER> OPTION> FNC-SW> PSWD-SW

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RPT2SIDE	1	Set of report 1-sided/2-sided output
Detail	To set whether to use 1-sided or 2-sided for report output of service mode.	
Use Case	When making 1-sided report output	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: 1-sided, 1: 2-sided	
Default Value	1	
Related Service Mode	COPIER> FUNCTION> MISC-P> P-PRINT	
PSCL-MS	1	Set of auto gradation adj (full) tgt SPD
Detail	To set the speed to execute auto gradation adjustment (full adjustment). When 0 is set, it is executed only at 1/1 speed. When 2 is set, it is executed at all speeds.	
Use Case	Upon user's request	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 2 0: 1/1 speed, 1: Not used, 2: All speeds	
Default Value	2	
DMX-DISP	1	ON/OFF auto grdtn adj D-max PASCAL ctrl
Detail	To set whether to execute D-max PASCAL control at auto gradation adjustment (full adjustment). When 0 is set, D-max PASCAL control and PASCAL control are executed. Four A4-size sheets are used for test print (one for D-max PASCAL control and three for PASCAL control). When 1 is set, only PASCAL control (gradation adjustment) is executed. Three A4-size sheets are used for test print (for PASCAL control).	
Use Case	According to the usage of the user	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: ON, 1: OFF	
Default Value	0	
INVALPDL	1	Disable of PDL license
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To disable the registered PDL license. When "1: Disabled" is set, PDL is disabled even if a PDL license is registered. This is set to the machines installed at convenience stores, which do not allow PDL to be used.	
Use Case	When prohibiting the use of PDL	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Registered PDL license is enabled, 1: Disabled	
Default Value	0	
IMGCNTPR	1	Setting of image quality mode
Detail	To set the image quality mode. When 0 is set, "image quality priority" mode is applied. When 1 is set, "counter priority" mode is applied. When 2 is set, "image quality priority (photo)" mode is applied.	
Use Case	Upon user's request	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 2 0: Image quality priority mode, 1: Counter priority mode, 2: Image priority (photo) mode	
Default Value	1	

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CDS-FIRM	1	Set to allow firmware update by admin
Detail	<p>* Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to allow the user (administrator) to perform firmware update linked with CDS and collection of log files.</p> <p>When 1 is set, [Distribution Update] is added to remote UI, and [Firmware Update] is added to [Register/Update Software] of local UI. Log files can be collected from remote UI.</p>	
Use Case	When allowing the administrator to update the firmware	
Adj/Set/Operate Method	<p>1) Enter the setting value, and then press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Caution	Do not use it for purposes other than collecting log files. Be sure to return the value to 0 after use.	
Display/Adj/Set Range	0 to 1 0: Disabled, 1: Enabled	
Default Value	It differs according to the location.	
Related Service Mode	COPIER> OPTION> FNC-SW> LCDSFLG	
Additional Functions Mode	Management Settings> License/Other> Register/Update Software	
Supplement/Memo	CDS: Contents Delivery System	
CDS-MEAP	1	Set to allow MEAP installation by admin
Detail	<p>* Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to allow the user (administrator) to install MEAP applications from CDS and enable iR options.</p> <p>When 1 is set, Updater can be activated from [Settings/Registration].</p>	
Use Case	When allowing the administrator to install MEAP applications and enable iR options from CDS	
Adj/Set/Operate Method	<p>1) Enter the setting value, and then press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	0 to 1 0: Disabled, 1: Enabled	
Default Value	1	
Supplement/Memo	CDS: Contents Delivery System	
CDS-UGW	1	Set to allow firmware update from Server
Detail	<p>*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to permit update of the firmware from the Remote Monitoring Server.</p> <p>When "1: Enabled" is set, Updater accepts the operation from the Remote Monitoring Server in cooperation with CDS.</p>	
Use Case	When allowing update of the firmware from the Remote Monitoring Server	
Adj/Set/Operate Method	<p>1) Enter the setting value, and then press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	0 to 1 0: Disabled, 1: Enabled	
Default Value	It differs according to the location.	
Supplement/Memo	CDS: Contents Delivery System	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > FNC-SW

LOCLFIRM	1	Set to allow firmware update by file
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to permit the user (administrator) to update the firmware from the remote UI using a local file. This update is executed as a measure for vulnerability in emergency situations.	
Use Case	When allowing the administrator to update the firmware using a file	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Disabled, 1: Enabled	
Default Value	1	
BXNUPLOG	2	[Not used]
SDLMTWRN	1	Cpcty warn dspl ON/OFF: E-mail/I-Fax TX
Detail	To set whether to display the warning message when sending data that exceeds the upper limit value for the transmission data size via E-mail/I-Fax.	
Use Case	For customization	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
Additional Functions Mode	Function Settings> Send> E-Mail/I-Fax Settings> Maximum Data Size for Sending	
AUTO-OUT	1	ON/OFF of jammed ppr auto ejctn function
Detail	To set ON/OFF of jammed paper automatic ejection function. When 1 is set, jammed paper is not delivered to the ejection position, but it stays at the current position at jam occurrence.	
Use Case	- When user does not need automatic ejection of jammed paper - When location of jammed paper is necessary to analyze the cause of a problem	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: ON, 1: OFF	
Default Value	0	
JLK-PWSC	2	ON/OFF of PCAM password auth doc scan
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to scan the PCAM password authentication document with the MEAP application.	
Use Case	When scanning the PCAM password authentication document	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > FNC-SW

FAX-INT	2	Set FAX RX print interruption oprtn mode
Detail	To set the mode performing interruption operation of FAX reception print automatically.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	- Do not set this item while charge management (charging by Coin Manager, a device alone, etc.) is used. - During an ongoing job for which delivery setting (offset, stapling, etc.) is made, interruption operation is performed between sets.	
Display/Adj/Set Range	0 to 1 0: Normal, 1: Interruption operation mode	
Default Value	0	
PDL-Z-LG	1	Setting of drawing algorithm
Detail	To switch the drawing algorithm of the iR C series and the iR-ADV C series to obtain output expected by the user. When 0 is set, image is output as displayed on the screen by the new algorithm adopted from the iR-ADV C Series. Pseudo outline (boundary for processing divided graphics separately) occurred with the iR C series does not occur. However, when PDL job with special data structure is sent, output expected by the user may not be obtained. When 1 is set, the drawing algorithm adopted by the conventional iR C series is used. Output equivalent to that of the iR C Series can be obtained; however, drawing-related phenomenon occurred with the series occurs.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Do not use setting value 2 and 3.	
Display/Adj/Set Range	0 to 3 0: Drawing algorithm of iR-ADV C series, 1: Drawing algorithm of the conventional iR C series, 2, 3: For R&D use	
Default Value	0	
CDS-LVUP	1	Set to allow CDS periodical update
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to allow the user (administrator) to perform periodical update linked with CDS. When 1 is set, setting of periodical update can be made in Settings/Registration menu/via remote UI. When 2 is set, setting of periodical update can be made on the Updater screen in service mode.	
Use Case	When allowing the user/service technician to perform periodical update	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 2 0: Prohibited periodical update 1: Display the periodical update setting screen in Settings/Registration menu/on remote UI 2: Display the periodical update setting screen on the Updater in service mode	
Default Value	It differs according to the location.	
Related Service Mode	Updater	
Additional Functions Mode	Management Settings> License/Other> Register/Update Software> Periodical Update	
Supplement/Memo	CDS: Contents Delivery System	

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AMSOFFSW	1	Enabling of AMS mode
Detail	<p>*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To enable the AMS mode.</p> <p>When 0 is set, the AMS mode is enabled. The AMS mode is automatically enabled when the following 2 conditions are satisfied.</p> <ul style="list-style-type: none"> - AMS license for an iR option is installed. - AMS-supported Login application (User Authentication, etc.) is activated. 	
Use Case	When enabling AMS mode	
Adj/Set/Operate Method	<ol style="list-style-type: none"> 1) Check that AMS-supported Login application is activated. 2) Enter 0, and then press OK key. 3) Turn OFF/ON the main power switch. 4) Check that [Role Management] is displayed on remote UI. 	
Display/Adj/Set Range	0 to 1 0: AMS mode enabled, 1: AMS mode disabled	
Default Value	1	
Related Service Mode	COPIER> OPTION> LCNS-TR> ST-AMS	
Additional Functions Mode	(Remote UI) User Management> Authentication Management> Role Management	
Supplement/Memo	AMS: Access Management System In AMS mode, [Role Management] is displayed on remote UI.	
UA-OFFSW	1	ON/OFF of unified auth function
Detail	<p>*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set ON/OFF of the Unified Authentication function.</p> <p>Set 0 when not preferring to use the Unified Authentication function because of security concern.</p>	
Use Case	Upon user's request (not to use the Unified Authentication function)	
Adj/Set/Operate Method	<ol style="list-style-type: none"> 1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch. 	
Display/Adj/Set Range	0 to 1 0: ON, 1: OFF	
Default Value	0	
Supplement/Memo	Unified Authentication: A function with which it is considered that login authentication under it is performed by logging in it using SSO-H.	
MIB-NVTA	1	RFC-compatible character stringMIB write
Detail	<p>As default, MIB object which NVT-ASCII can be written exists in order to link with local UI entry value. This violates RFC order, so a problem like garbled 2-byte characters may occur in the SNMP monitoring system, such as other vendor's MPS.</p> <p>Whether to allow writing of non-RFC-compatible character strings in MIB can be set using this item.</p> <p>When 1 is set, only the character strings which are strictly compatible with RFC are written. (Writing operation is executed from the SNMP manager.) It is not linked with local UI.</p>	
Use Case	Upon user's request (to operate with RFC-compatible system)	
Adj/Set/Operate Method	<ol style="list-style-type: none"> 1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch. 	
Display/Adj/Set Range	0 to 3 0: Compatible in a conventional manner, 1: RFC-compatible, 2 to 3: Not used	
Default Value	0	
Supplement/Memo	RFC: Document of internet-related technical standards NVT-ASCII: Network Virtual Terminal-ASCII	
MIB-EXT	1	For R&D

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SVC-RUI	1	Enabling of remote UI func for servicing
Detail		To set whether to enable the remote UI function for servicing (not provided to end users). When 0 is set, the remote UI function is disabled. When setting a value other than 0, the remote UI function is enabled and its value will be used as the password to use the function.
Use Case		When preferring to use the import function of background image file of main menu/custom menu
Adj/Set/Operate Method		Enter the setting value (other than 0), and then press OK key.
Display/Adj/Set Range		0 to 65535
Default Value		0
LCDSFLG	1	Enabling of local CDS server
Detail		To set whether to use the local CDS server. When CDS-FIRM is 1, this setting is enabled.
Use Case		When using the local CDS server
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 1 0: Disabled, 1: Enabled
Default Value		0
Related Service Mode		COPIER> OPTION> FNC-SW> CDS-FIRM
Additional Functions Mode		Management Settings> License/Other> Register/Update Software> Software Management Settings> Connection Server Settings
Supplement/Memo		When local CDS is used, iW EMC/MC device firmware update plug-in is required.
STNDBY-B	1	Setting of duration of standby mode
Detail		To set the duration of standby mode. In standby mode, the Fixing Film and the Pressure Roller are heated/rotated while they are engaged so it is possible to make an output at specified FCOT. Set 1 to 4 to maintain the FCOT. Increase the value when standby mode is cleared because of taking a long time for login authentication. When 4 is set, the time set in [Auto Sleep Time] in [Settings/Registration] is applied.
Use Case		- Upon user's request (to maintain FCOT) - At login authentication
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		By setting a value other than 0 when the machine is not frequently used, the life may become shorter than the estimated life.
Display/Adj/Set Range		0 to 4 0: OFF, 1: 1 minute, 2: 5 minutes, 3: 10 minutes, 4: Sleep shift time
Default Value		0
Additional Functions Mode		Timer/Energy Settings> Auto Sleep Time

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BXSHIFT	1	Setting of binding at 0mm binding margin
Detail	To set whether to judge the job as a job "without binding" when storing a PDL job in Inbox while the binding margin is set to "0". By setting the binding margin to 0 mm while "0" is set, the job is processed as "without binding". "Booklet" in "Options" on the Inbox screen can be also used. When "1" is set, it is judged as "with binding" even the binding margin is 0 mm so "Booklet", which has an exclusive relationship with "binding", cannot be used.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	When storing a PDL job in Mail Box while 1 is set, "Booklet" in "Options" on the Mail Box screen cannot be used.	
Display/Adj/Set Range	0 to 1 0: Without binding, 1: With binding	
Default Value	0	
SELF-CHK	2	For R&D
HOME-SW	1	Set screen displayed with Main Menu key
Detail	To set whether to display the main menu screen or the screen registered as the startup screen when pressing Main Menu key.	
Use Case	Upon user's request (to change the startup screen)	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: Main Menu screen, 1: Screen registered as the startup screen	
Default Value	0	
NO-LGOUT	1	Display/hide of logout button
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to display or hide [Logout] button. When 0 is set, [Logout] button is displayed on the screen, and logout with the ID key is enabled. (Normal) When 1 is set, [Logout] button is not displayed, and logout with the ID key is disabled.	
Use Case	Upon user's request (for customization, etc.)	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Display, 1: Hide	
Default Value	0	
JM-ERR-D	2	Set of error display of 0CAx jam (DCON)
Detail	To set whether to display "0CAx" jam as the error "E996-0CAx". In the case of a jam, log cannot be obtained depending on the timing. By selecting 1 when the jam "0CAx" occurs, it is displayed as the error "E996-0CAx" so that the log can be obtained.	
Use Case	When obtaining a log at the occurrence of 0CAx jam	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: Display as a jam, 1: Display as an error	
Default Value	0	
Related Service Mode	COPIER> OPTION> FNC-SW> JM-ERR-R	

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JM-ERR-R	2	Set of error display of 0071 jam (RCON)
Detail	To set whether to display 0071 jam as the error "E996-0071". In the case of a jam, a log may not be able to be obtained depending on the timing. By selecting 1 when the 0071 jam occurs, it is displayed as an error so that a log can be obtained.	
Use Case	When obtaining a log at the occurrence of 0071 jam	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: Display as a jam, 1: Display as an error	
Default Value	0	
Related Service Mode	COPIER> OPTION> FNC-SW> JM-ERR-D	
ASLPMAX	1	Set auto sleep shift time maximum value
Detail	Set auto sleep shift time maximum value.	
Use Case	Upon user's request	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: 240minutes, 1: 120 minutes	
Default Value	It differs according to the location.	
SEND-SPD	2	ON/OFF of SEND operation speed-up
Detail	To set whether to speed up the SEND operation. Usually, speed of SEND/XBOX is increased by performing image conversion during SEND and Scan. Reading speed may decrease when scanning large size color original at high resolution or when competing operation occurs with another job during scanning. Set 1 to keep the speed. When failure with MEAP application occurs, set 1.	
Use Case	- When reading speed is decreased during SEND and Scan - When failure with MEAP application occurs	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: ON, 1: OFF	
Default Value	0	
2TR-TBLS	1	Set sec transfer bias correction table
Detail	To set the secondary transfer bias correction table according to the paper to be used. Since physical properties of paper are different for each location, use the table according to the paper to be used.	
Use Case	When using paper for a location other than the intended one	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 4 0: According to the location, 1: For Japan, 2: For Europe, 3: For USA, 4: For Asia	
Default Value	It differs according to the location.	

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VER-CHNG	2	Setting of firmware update operation
Detail	<p>To set how to update firmware of PCB/option which has been installed/replaced by comparing the version of it with the version stored in the Flash PCB of the Main Controller.</p> <p>If combination of firmware versions of PCB/option stored in the Main Controller and the version in PCB/option after installation/replacement is not appropriate (operation with the combination of firmware versions has not yet been checked), failure where analysis is difficult may occur.</p> <p>It is possible to check the firmware versions at the start of the machine, and automatically write the firmware stored in the Main Controller in PCB/option collectively as needed.</p> <p>When 0 is set, versions are not checked and firmware update is not performed. Therefore, it is necessary to manually update the versions using a USB flash drive/SST.</p> <p>When 1 is set, firmware is updated if the version in PCB/option is old. However, it is not updated if the version is new or old and new versions are mixed.</p> <p>When 2 is set, a compatible firmware (the version where operation has been checked) is written from the Main Controller regardless of whether the version in PCB/option is old or new.</p>	
Use Case	When installing/replacing PCB/option having firmware	
Adj/Set/Operate Method	<p>1) Enter the setting value, and then press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	<p>0 to 2</p> <p>0: Keep the current firmware version.</p> <p>1: Update the firmware if the version in PCB/option is older than that stored in the Main controller. If the version is new or old and new versions are mixed, firmware is not updated.</p> <p>2: Update the firmware regardless of whether the version is old or new if the version in PCB/option differs from that stored in the Main Controller.</p>	
Default Value	1	
Supplement/Memo	<p>When updating the firmware, the main menu is displayed on the Control Panel at startup and then a message prompting to update firmware is displayed.</p> <p>By pressing [Update], the machine reboots immediately and firmware is updated.</p> <p>By pressing [Skip], it returns to the main menu. The message is displayed again at next startup.</p>	
FAX-STR	1	[For customization]
CE-SW	1	[Reserve]
LIMFNC-M	2	[For customization]
PICLOGIN	1	ON/OFF of Picture Login display
Detail	To set whether to display [Picture Login] in [Settings/Registration].	
Use Case	When switching the Picture Login function	
Adj/Set/Operate Method	<p>1) Enter the setting value, and then press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	<p>0 to 1</p> <p>0: OFF, 1: ON</p>	
Default Value	1	
Additional Functions Mode	Management Settings> User Management> Authentication Management> Use User Authentication> Picture Login	

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1TRDELAY	2	ON/OFF of image formation timing delay
Detail	To set whether to delay the image formation timing when density at image leading edge is low. Image writing starts while the potential of the Photosensitive Drum is still unstable, density at image leading edge may become low. When 1 is set, the timing to start image writing is delayed so the image quality is improved. However, time required for preprocessing is increased for each job so that productivity is decreased.	
Use Case	When low leading edge density occurs	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	When 1 is set, productivity for each job is decrease.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
TRYFLOFF	2	ON/OFF of full detection
Detail	To set whether to perform full detection. When a finisher is disconnected from the host machine, full detection becomes unavailable so operation of the machine is disabled. If there is full detection flag which has been removed from the host machine at installation of a finisher, reinstall it so the operation of the host machine alone becomes available. If there is no full detection flag, set 1 for this item to disable the full detection so the operation of the host machine becomes available.	
Use Case	When temporarily operating the host machine without a finisher due to failure/repair	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	- When 1 is set, stacking failure or paper jam may occur. - Be sure to change the value back to 0 after connecting the disconnected finisher again.	
Display/Adj/Set Range	0 to 1 0: ON (Normal), 1: OFF	
Default Value	0	
ITBGST	2	ON/OFF ITB static elim mode for coat ppr
Detail	To set whether to neutralize electric charge on the ITB. With coated paper where paper allotted voltage is low, potential difference on the ITB surface tends to be large depending on whether there is toner. Therefore, when coated papers are fed continuously, ghost image may occur on location that differs for each paper. When 1 is set, paper interval becomes wider extremely only for coated paper. Primary transfer current flows to a much larger area of the ITB so residual charge is removed. Ghost image can be reduced, but productivity is decreased.	
Use Case	When ghost image occurs on coated paper at intervals of ITB circumference	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	When 1 is set, productivity for coated paper is decreased extremely (approx. 15%).	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
Supplement/Memo	Ghost image at intervals of ITB circumference: An image failure that occurs only when feeding coated paper continuously. It does not occur when feeding a single sheet of the paper.	

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DCONTRY	2	Set of retry at DCON comctn error occur
Detail	<p>To set whether to perform retry processing when communication error occurs between the Main Controller and the DC Controller.</p> <p>Set 1 to 3 when E733 occurs. Communication error may be avoided by retry. (It is effective especially when E733-0001/0002/0005 occurs.)</p> <p>If communication error occurs during finishing job while 3 is set, duplicated pages may be output due to retry. In such case, set 0 to 2. Since retry is not performed during finishing job, duplication of pages does not occur, but E733 occurs.</p>	
Use Case	When E733 occurs	
Adj/Set/Operate Method	<p>1) Enter the setting value, and then press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Caution	When 3 is set, duplication of pages may occur during finishing job.	
Display/Adj/Set Range	<p>0 to 3</p> <p>0: OFF</p> <p>1: OFF during job, ON in other states</p> <p>2: OFF during finishing job, ON in other states</p> <p>3: ON</p>	
Default Value	1	
Supplement/Memo	Finishing job: Job that 2-sided print, binding and/or collate set in "Finishing" of the printer driver.	
FL-START	2	[For customization]
STAY-OUT	1	ON/OFF jammed ppr ejctn: MP Tray pickup
Detail	<p>To set whether to forcibly eject jammed paper when a size mismatch jam or a stationary jam occurs at the time of pickup from the Multi-purpose Tray.</p> <p>When 0 is set, the host machine stops at the time of occurrence of a jam. Manually perform jam removal.</p> <p>When 1 is set, the host machine does not stop even if a jam occurs. When the delivery destination specified by the user is the host machine, jammed paper is ejected. When an option is specified as the delivery destination, it is not ejected.</p>	
Use Case	When reducing the number of jam removal which occurs frequently because of setting paper whose length is longer than the specified length of the Multi-Purpose Tray	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	<p>- When 1 is set, jammed paper is forcibly fed in the event of a stationary jam not caused by paper size, and consequently noise or abrasion of roller may occur.</p> <p>- It takes time until pickup of the second paper because paper size is judged with the first paper at the time of pickup from the Multi-purpose Tray (productivity is decreased).</p>	
Display/Adj/Set Range	<p>0 to 1</p> <p>0: OFF, 1: ON</p>	
Default Value	0	
Related Service Mode	COPIER> OPTION> USER> MF-LG-ST	
Supplement/Memo	When 1 is set, jammed paper being ejected may trigger another jam. When a jam is removed, size mismatch jam is displayed.	

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3RDP-MSG	2	ON/OFF pop-up screen dspl after upgrade
Detail		To set whether to display the screen to prompt the user to "Third-Party Software" at the first startup after upgrading due to change in the platform version.
Use Case		There will be no occasion to use this item intentionally.
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Even if 0 is set, the screen is displayed if CDS-LVUP is set to 0.
Display/Adj/Set Range		0 to 1 0: Hide, 1: Display
Default Value		0
Related Service Mode		COPIER> OPTION> FNC-SW> CDS-LVUP
RCONTRY	2	Set process at RCON communication error
Detail		To set the processing to be executed at occurrence of RCON communication error. Normally, recovery is performed without displaying an error. A log is not collected. Set 1 when recovery processing is performed frequently. An error is displayed and a log for analysis can be collected.
Use Case		When recovery processing due to RCON communication error is performed frequently
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Perform recovery without collecting a log, 1: Collect a log and display an error
Default Value		0

■ DSPLY-SW

COPIER (Service mode for printer) > OPTION (Specification setting mode) > DSPLY-SW

UI-COPY	2	ON/OFF of copy screen display
Detail		To set whether to display or hide the copy function.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Hide, 1: Display
Default Value		1

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UI-BOX	2	ON/OFF of Inbox screen display
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to display the Inbox function. The setting values "1" and "2" of this item are linked with the values "ON" and "OFF" of [Mail Box] in [Settings/Registration] respectively. The setting is reflected after turning OFF/ON the power.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	1 to 2 1: Inbox function is active 2: Inbox function is active (with limitation; Storing is available with PDL to Inbox despite no display on the Control Panel/remote UI)	
Default Value	1	
Additional Functions Mode	Preferences> Display Settings> Store Location Display Settings> Mail Box	
UI-SEND	2	ON/OFF of Send screen display
Detail	To set whether to display or hide the SEND function.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	1	
UI-FAX	2	ON/OFF of fax screen display
Detail	To set whether to display or hide the FAX function.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	1	
NWERR-SW	2	OFF/ON of network-related error display
Detail	To set OFF/ON of network-related error message display. When setting "0: OFF" while the machine is not connected to network, the error message "Check the network connection." is not displayed.	
Use Case	When using the machine as a copy machine	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0 (Copier model)/1 (Printer model)	
T-CRG-SW	2	ON/OFF of Toner Cntner rplce scrn dsp
Detail	To set whether to display the specified toner replacement screen in [Settings/Registration].	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
Additional Functions Mode	Adjustment/Maintenance> Maintenance> Replace Specified Toner	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > DSPLY-SW

FXMSG-SW	2	ON/OFF of Fixing Unit replace message
Detail	To set whether to display the message prompting to replace the Fixing Unit on the Control Panel when the counter for life judgment reaches the specified value. When the setting values of FXMSG-SW and FXWRNLVL are 1, the Fixing Unit life detection is performed. When the Fixing Unit reaches its life, the Fixing Unit replacement message "Fixing roller needs to be replaced. (Call service representative.)" is displayed. In this case, perform the following procedure. 1) Turn OFF the main power switch, and replace the Fixing Film Unit and Pressure Roller. 2) Turn ON the main power switch and execute CNT-DCON. 3) Turn OFF/ON the main power switch.	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
Related Service Mode	COPIER> OPTION> FNC-SW> FXWRNLVL COPIER> FUNCTION> CLEAR> CNT-DCON	
UI-PRINT	2	Set of secured print-related UI display
Detail	To set whether to display UI related to secured print.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 2 0: Hide all UIs related to secured print 1: Display all UIs related to secured print 2: Hide Secured Print button in the main menu and the simple authentication settings in [Settings/Registration]	
Default Value	0	
IMGC-ADJ	1	ON/OFF of img adj item dspl in [Set/Reg]
Detail	To set whether to display the item relating to image adjustment in [Settings/Registration]. When 1 is set, detailed image adjustment procedure will be displayed only for the paper duplicated in Preferences> Paper Settings> Paper Type Management Settings.	
Use Case	As needed	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	0	
Additional Functions Mode	Preferences> Paper Settings> Set Paper Type Management	
UI-RSCAN	2	ON/OFF of remote scan screen display
Detail	To set whether to display the remote scan screen on the Control Panel.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	1	

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UI-WEB	2	ON/OFF of Web browser screen display
Detail	To set whether to display or hide the Web browser screen.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	1	
UI-HOLD	2	ON/OFF of hold job screen display
Detail	To set whether to display the hold job screen on the Control Panel.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 3 0: Hide (when POD function is OFF and JAL is OFF) 1: Display (when POD function is ON and JAL is OFF) 2: Hide (when POD function is OFF and JAL is ON) 3: Hide (when POD function is ON and JAL is ON)	
Default Value	1	
Supplement/Memo	POD function: JDF + HOLD functions JAL function: A function to save the print result as a thumbnail.	
RMT-CNSL	1	Allow console application connection
Detail	To set whether to allow connection from a console application (RemoteConsole). When 1 is set, logs of MEAP application can be collected via the console application activated on a PC.	
Use Case	When collecting logs of MEAP application	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
UI-SBOX	2	ON/OFF of Advanced Box screen display
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set ON/OFF of the Advanced Box screen on the Control Panel. The setting values 0 (OFF) and 1 (ON) are linked with OFF and ON of [Advanced Box/Network] in [Settings/Registration] respectively. The setting is reflected after turning OFF/ON the power.	
Use Case	When not displaying the Advanced Box screen on the Control Panel	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	It differs according to the location.	
Additional Functions Mode	Preferences> Display Settings> Store Location Display Settings> Advanced Box/Network	

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UI-MEM	2	ON/OFF of memory media screen display
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set ON/OFF of the memory media screen display on the Control Panel. The setting values 0 (OFF) and 1 (ON) are linked with OFF and ON of [Memory Media] in [Settings/Registration] respectively. The setting is reflected after turning OFF/ON the power.	
Use Case	When not displaying the memory media screen on the Control Panel	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	1	
Additional Functions Mode	Preferences> Display Settings> Store Location Display Settings> Memory Media	
UI-NAVI	2	ON/OFF of Tutorial display
Detail	To set whether to display or hide "Introduction to Useful Features" in the main menu.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	1	
FCOT-DSP	1	[Not used]
CNTCNFSW	1	[Not used]
SDTM-DSP	1	ON/OFF of auto shutdown shift time dsp
Detail	To set whether to display [Auto Shutdown Time] and [Auto Shutdown Weekly Timer] in [Settings/Registration].	
Use Case	Upon user's request	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	When 0 is set, automatic shutdown is not executed.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	It differs according to the location.	
Additional Functions Mode	Preferences> Timer/Energy Settings> Auto Shutdown Time, Auto Shutdown Weekly Timer	
UI-PPA	2	ON/OFF of PPA screen display
Detail	To set whether to display PPA-related information on the Control Panel or remote UI. The setting is linked with LGCY-SCP. When LGCY-SCP is set to 0, the setting of this item becomes 1. When LGCY-SCP is set to 1, the setting of this item becomes 0.	
Use Case	When not displaying PPA-related information on the screen	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0 (non PPA-installed machine)/1 (PPA-installed machine)	
Related Service Mode	COPIER> OPTION> USER> LGCY-SCP	
Supplement/Memo	PPA (Personal Print Application): A function to hold print job. It contains the secured print function.	
CE-DSP	2	[Reserve]

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LOCAL-SZ	1	ON/OFF area-spec stdrd size ppr set scrn
Detail	To set whether to display the area-specific standard size paper on the paper settings screen in [Settings/Registration]. When 1 is set, paper type (FOOLSCAP, OFICIO, etc.) can be set on the paper settings screen for each paper source.	
Use Case	Upon user's request	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	It differs according to the location.	
Additional Functions Mode	Preferences> Paper Settings> Paper Settings	
MD-PSCL	2	For R&D
SND-NAME	1	Setting of [Scan and Send] button name
Detail	To set the name of [Scan and Send] button displayed in the main menu.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 2 0: [Scan and Send], 1: [Scan], 2: [Scan]	
Default Value	0	
PCMP-DSP	1	Set copy cmpl scrn dspl:chg w/devc alone
Detail	To set whether to display the screen indicating completion of copying at the time of charging with a device alone. When 0 is set, a message "Copying is complete. Do you want to start the job again with the same settings?" is not displayed in a pop-up screen. When COIN is 4, this setting is enabled.	
Use Case	Upon user's request	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	1	
Related Service Mode	COPIER> OPTION> ACC> COIN	
ERR-DISP	2	[For customization]

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SVC-ACA	1	Display of ACA installation button
Detail		To set whether to display the [Install Auto Configuration Agent] button on the CDS Updater screen (user mode/service mode).
Use Case		When switching to install/not to install the ACA via network
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 2 0: Hide (Hide user mode/service mode) 1: Display only service mode (Hide user mode) 2: Display all (Display user mode/service mode)
Default Value		It differs according to the location.
Related Service Mode		Service Mode > Updater
Additional Functions Mode		Management Settings> License/Other> Register/Update Software
Supplement/Memo		ACA : Auto Configuration Agent
RMT-CNCT	2	Sw mssg dspl on machine w/o Svr connect
Detail		To set whether to display the message "Contact your service representative." to the customer who uses the machine without having Remote Monitoring Server connected.
Use Case		When switching to display or hide the message depending on whether Remote Monitoring Server is connected or not
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		This applies only to the messages displayed in the event of a toner memory detection error. (Alarm code: 10-0091/-0092/-0093/-0094)
Display/Adj/Set Range		0 to 1 0: Hide, 1: Display
Default Value		0
SVC-SRA	1	Display/hide of DBS installation button
Detail		To set whether to display the [Install Data Backup Service] button on the CDS Updater screen (user mode/service mode).
Use Case		When switching to install/not to install the Data Backup Service via network
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Depending on the setting value, display when entering from Settings/Registration and that from service mode differ.
Display/Adj/Set Range		0 to 2 0: Hide (Hide user mode/service mode) 1: Display only service mode (Hide user mode) 2: Display all (Display user mode/service mode)
Default Value		It differs according to the location.
Related Service Mode		Service Mode> Updater> Install Data Backup Service
Additional Functions Mode		Management Settings> License/Other> Register/Update Software> Install Data Backup Service

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LF-DSP-S	2	Set Display/Hide Life VL in Service Mode
Detail	To set whether to display Life Value and Replacement Life Value on the service mode counter screen. If this option is set to 1, Life Value is displayed in the third column and Replacement Life Value in the fourth column of all items under COPIER > COUNTER > LIFE.	
Use Case	When displaying Live Value and Replacement Life Value	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	Change the setting in accordance with the instruction of the sales company HQ.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	The value differs according to the location.	
Related Service Mode	COPIER > COUNTER > LIFE	
LF-DSP-U	2	Dspy/hide Chk Consumable State/Days Left
Detail	To set whether to display the "Status" and "Number of Days Left" in Status Monitor/Cancel > Consmbls./Others > Check Consumables.	
Use Case	When switching display/hide the Status and Number of Days Left.	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	Change the setting in accordance with the instruction of the sales company HQ.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	The value differs according to the location.	
Additional Functions Mode	Status Monitor/Cancel > Consmbls./Others > Consumables	
ERRL-DSP	1	For R&D
JLG-UD-D	1	[For customization]
UFOS-DSP	1	Display/hide of uniFLOW Setup
Detail	Service mode to switch to display or hide [uniFLOW Setup].	
Use Case	When to switch to display or hide [uniFLOW Setup]	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	It differs according to the location.	
Additional Functions Mode	Main Menu > uniFLOW Setup	
Supplement/Memo	uniFLOW : The name of the product destined for China is "mdsFLOW".	
SVC-DAT	1	For R&D

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RMS-SW	1	Display/Hide Monitoring Service Screen
Detail		Switch between screens to connect to the Monitoring Service (UGW).
Use Case		Switching connection method to UGW
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		Be sure to change in accordance with the instruction from the regional sales headquarters. If changed by mistake, you will not be able to connect to the remote monitoring service.
Display/Adj/Set Range		0 to 1 0: eRDS connection screen 1: Reserve
Default Value		0
Related Service Mode		Service Mode > Updater > Other Installations > Install Data Backup Service
Additional Functions Mode		Counter/Device Information > Monitoring Service
UK-DSP	1	SW for dpl of device regist tool button
Detail		Switch for switching display of device registration tool button. Turn this switch to ON (1) to hide the device registration tool button. In addition, hide parts that do not support Ukrainian (shown in English).
Use Case		- When installing backup service and restoring, set the device registration tool button to "Display". - When installing a state monitor, set the device registration tool button to "Display". - In the case of installing a device with a possibility of displaying English in Ukraine, set the device registration button to "Non-display".
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn ON/OFF the main power.
Caution		- Display of standard function on the firmware is only available to use. Operation of the function hidden by this switch is not guaranteed.
Display/Adj/Set Range		0 - 1 0 : Display of device registration tool button 1 : Non-display of device registration tool button, Installing in Ukrainian (Non-display of the parts that do not support Ukrainian)
Default Value		1

■ NETWORK

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RAW-DATA	2	Setting of received data print mode
Detail		To set print mode for the received image data. This item is used to identify the cause whether it's due to image data or image processing in the case of problem with received image.
Use Case		When a problem with received image occurs
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Be sure to set the value back to 0 after recovering from the problem.
Display/Adj/Set Range		0 to 1 0: Normal print operation, 1: Print with original data without image processing
Default Value		0

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IFAX-LIM	2	No. of max print lines at IFAX reception
Detail		To set the maximum number of lines for e-mail text to be printed when receiving IFAX. Setting of this item can prevent endless printing of the attached file data in the case of receiving an error e-mail or failure in interpretation of the context. Selecting 0 prints the header/footer in 1 sheet when receiving e-mail text without attached file.
Use Case		When preventing endless print in the case of failure in reception
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 999 0: E-mail text not printed, 999: Unlimited
Default Value		500
SMTPTXPN	2	Setting of SMTP TX port number
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set SMTP transmission port number.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 65535
Default Value		25
SMTPRXPN	2	Setting of SMTP reception port number
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set SMTP reception port number.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 65535
Default Value		25
POP3PN	2	Setting of POP3 reception port number
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set POP3 reception port number.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 65535
Default Value		110
FTPTXPN	2	Specification of SEND port (FTP) number
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To specify address port (FTP) number for SEND.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 65535
Default Value		21
STS-PORT	2	[Not used]
CMD-PORT	2	[Not used]

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NS-CMD5	2	Limit CRAM-MD5 auth method at SMTP auth
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To restrict use of CRAM-MD5 authentication method at the time of SMTP authentication.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: SMTP server-dependent, 1: Not used	
Default Value	0	
Supplement/Memo	SMTP authentication: Protocol in which user authentication function is added to SMTP, which is the protocol to be used for e-mail transmission. At the time of e-mail transmission, this protocol executes authentication of the user account and the password between the SMTP server and the user to approve e-mail transmission only when it's authenticated.	
NS-GSAPI	2	Limit GSSAPI auth method at SMTP auth
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To restrict use of GSSAPI authentication method at the time of SMTP authentication.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: SMTP server-dependent, 1: Not used	
Default Value	0	
Supplement/Memo	SMTP authentication: Protocol in which user authentication function is added to SMTP, which is the protocol to be used for e-mail transmission. At the time of e-mail transmission, this protocol executes authentication of the user account and the password between the SMTP server and the user to approve e-mail transmission only when it's authenticated.	
NS-NTLM	2	Limit NTLM auth method at SMTP auth
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To restrict use of NTLM authentication method at the time of SMTP authentication.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: SMTP server-dependent, 1: Not used	
Default Value	0	
Supplement/Memo	SMTP authentication: Protocol in which user authentication function is added to SMTP, which is the protocol to be used for e-mail transmission. At the time of e-mail transmission, this protocol executes authentication of the user account and the password between the SMTP server and the user to approve e-mail transmission only when it's authenticated.	

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NS-PLNWS	2	Limit plaintext auth at SMTP auth encry
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To restrict use of PLAIN/LOGIN authentication, which is plaintext, at the time of SMTP authentication under the environment where the communication packet is encrypted.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: SMTP server-dependent, 1: Not used	
Default Value	0	
Supplement/Memo	SMTP authentication: Protocol in which user authentication function is added to SMTP, which is the protocol to be used for e-mail transmission. At the time of e-mail transmission, this protocol executes authentication of the user account and the password between the SMTP server and the user to approve e-mail transmission only when it's authenticated.	
NS-PLN	2	Limit plaintext auth at SMTPauth noency
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To restrict use of PLAIN/LOGIN authentication, which is plaintext, at the time of SMTP authentication under the environment where the communication packet is not encrypted.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: SMTP server-dependent, 1: Not used	
Default Value	0	
Supplement/Memo	SMTP authentication: Protocol in which user authentication function is added to SMTP, which is the protocol to be used for e-mail transmission. At the time of e-mail transmission, this protocol executes authentication of the user account and the password between the SMTP server and the user to approve e-mail transmission only when it's authenticated.	
NS-LGN	2	Limit LOGIN authentication at SMTP auth
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To restrict use of LOGIN authentication at the time of SMTP authentication.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: SMTP server-dependent, 1: Not used	
Default Value	0	
Supplement/Memo	SMTP authentication: Protocol in which user authentication function is added to SMTP, which is the protocol to be used for e-mail transmission. At the time of e-mail transmission, this protocol executes authentication of the user account and the password between the SMTP server and the user to approve e-mail transmission only when it's authenticated.	
MEAP-PN	2	HTTP port No.setting of MEAP application
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set HTTP port number of MEAP application.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Do not specify port 8080 when the Print Server is connected. Otherwise, you cannot browse the device RUI in which MEAP authentication application is running (Port 8080 is reserved for redirection of EFI Controller to the iR side.)	
Display/Adj/Set Range	1 to 65535	
Default Value	8000	

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CHNG-STTS	2	[Not used]
CHNG-CMD	2	[Not used]
MEAP-SSL	2	HTTPS port setting of MEAP
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the port of HTTPS server in the case of using SSL with HTTP of MEAP.	
Use Case	When specifying the setting of HTTPS port for MEAP	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	1 to 65535	
Default Value	8443	
LPD-PORT	2	Setting of LPD port number
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the LPD port number.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	1 to 65535	
Default Value	515	
Supplement/Memo	LPD port: Network port for TCP/IP communication when making prints through network.	
WUEN-LIV	2	Recovery time setting after sleep notice
Detail	To set the time from the sleep start from network without job assignment until the mode is shifted to the sleep mode.	
Use Case	When setting the startup time after sleep notification	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	10 to 600	
Unit	sec	
Default Value	15	
Amount of Change per Unit	1	
IFX-CHIG	1	Set operation by IFAX recv mail content
Detail	To set the number of characters for the IFAX received mail content, so that the mail is not printed/forwarded when the characters in the text is less than the number of specified characters. This machine can output blank paper because some senders send e-mail text consists of linefeed codes only. In such case, specify 2 (number of characters) so that there will be no output of blank paper. In the case of specifying any number other than 0, header/footer is printed/forwarded in 1 sheet only if the e-mail (body) text is less than the specified value while no TIFF file is attached. As the value is incremented by 1, the number of target characters in e-mail body text is increased by 1 character.	
Use Case	When reducing print of blank paper due to e-mail received by IFAX	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Be sure to get approval from the user by telling that there will be no print of e-mail (body) text if the number of characters is less than the specified value.	
Display/Adj/Set Range	0 to 999 0: E-mail (body) text is not ignored.	
Unit	char	
Default Value	0	
Supplement/Memo	1 Japanese Kanji character is calculated as 2 bytes, and the control codes (such as linefeed code, etc) are included in the number of characters.	

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DNSTRANS	1	Setting of DNS query priority protocol
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set priority of the protocol (IPv4/IPv6) for DNS query. In the case of using both IPv6 and IPv4 while the DNS server supports IPv4, it takes time because of timeout when executing DNS query with priority on IPv6. Giving priority on query by IPv4 can shorten the time.	
Use Case	When it takes time to execute DNS query with priority on IPv6 because the DNS server supports IPv4	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: IPv4, 1: IPv6	
Default Value	1	
PROXYRES	2	Setting of proxy response to Windows
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to provide proxy response or return the device status when an inquiry is received via Windows while the device is in sleep mode.	
Use Case	When executing status response for query from Windows correctly	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: No proxy response, 1: Proxy response	
Default Value	1	
WOLTRANS	1	ON/OFF sleep recover by packet reception
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to recover from deep sleep when receiving unicast packets to the machine (excluding proxy response).	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	1 to 2 1: ON, 2: OFF	
Default Value	1	
802XTOUT	1	Set of IEEE802.1X authentication timeout
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set timeout value for IEEE802.1X authentication. If the device executes 802.1X authentication, change the wait time for response from the authentication server.	
Use Case	When response from the authentication server is slow/fast	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	10 to 120	
Unit	sec	
Default Value	30	
Amount of Change per Unit	1	

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SPDALDEL	2	Initialization of SPD value
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To initialize all the SPD values that are under management. SPD values can be initialized without clearing SRAM.
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: OFF, 1: ON
Default Value		0
Supplement/Memo		SPD: Database that manages SA (Security Association). SPD value is managed when IPSec Board is used. Normally, SRAM needs to be cleared in the case of mismatch in SPD value.
NCONF-SW	1	ON/OFF of Network Configurator function
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set ON/OFF of Network Configurator function. If the user does not use the function, select OFF to prevent remote attack through network.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: OFF, 1: ON
Default Value		1
Supplement/Memo		Network Configurator function is a function to be used for communication with NetSpot Device Installer, etc., and the network setting can be changed from the remote.
AFS-JOB	1	Set of FAX server job reception port
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the reception port of the fax server to which a fax client sends jobs.
Use Case		When changing the job reception port of the fax server
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 65535
Default Value		20317
Related Service Mode		COPIER> OPTION> NETWORK> AFC-EVNT
AFC-EVNT	1	Set of FAX client event reception port
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the event notification reception port of a fax client.
Use Case		When changing the event notification reception port of a fax client
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 65535
Default Value		29400
Related Service Mode		COPIER> OPTION> NETWORK> AFS-JOB

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ILOGMODE	1	Setting of filter log target packet
Detail	<p>*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the target packet to be recorded in the filter log. Usually, only the unicast packets to the machine are recorded in the filter log by PFW (personal firewall). When 1 is set, address filter is enabled for all protocols so all packets are recorded in the filter log. However, logs of multicast/broadcast packets sent from a harmless device or an address that are subject to rejection and have no direct relation to the machine are also recorded, and consequently the number of logs is increased.</p>	
Use Case	Upon user's request (to collect all filter logs)	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	When 1 is set, the number of logs is increased because logs of packets which have no direct relation to the machine are recorded.	
Display/Adj/Set Range	0 to 1 0: Unicast packets to the machine only, 1: All packets	
Default Value	0	
ILOGKEEP	1	Set of IP address block log hold time
Detail	<p>*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the retention time from the log time of IP block. When access is made again from a same IP address which was blocked before, if it is within the retention time of the previous log, its log is not recorded. If access is frequently made from a same IP address, the log record of the UI might be filled with its logs. If the user considers that a single log for a same IP address is enough, set the longer retention time.</p>	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 48 0: 1 minute (special mode) 1 to 48: 1 hour to 48 hours	
Default Value	1	
IPTBROAD	1	Set to allow broad/multicast TX
Detail	<p>*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to permit transmission of broadcast packets and multicast packets. Transmission of broadcast packets and multicast packets is permitted without specifying an exception address. It is permitted within the device even if it is rejected in the default setting of the IPv4/v6 transmission filter. Set "1: Disabled" when the user does not want to send them.</p>	
Use Case	Upon user's request	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 5 0: Enabled, 1: Disabled, 2 to 5: Not used	
Default Value	0	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > NETWORK

PFWFTPRT	1	Set of RST reply at IP filter FTP SEND
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. When FTP SEND is executed using an IP filter by which packets from a specific remote PC are rejected, SYN is returned to the port 113 if the PC supports authentication of the FTP port 113. However, since the IP filter blocks the packets, the block logs are increased and the performance is lowered. When 1 is set, RST is returned to the port 113 without blocking packets.	
Use Case	When executing FTP SEND against the OS which supports authentication of the FTP port 113 while the IP filter is enabled	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
DDNSINTV	1	Set of DDNS periodical update interval
Detail	DNS registration is executed only once at start-up with the current iR, so the registered contents are deleted in an environment where the DNS server settings are deleted at intervals. To set the interval of DDNS periodical update for not deleting the registered contents.	
Use Case	When the DNS server settings are deleted at intervals	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 48 0: No periodical update, 1: 1-hour interval, 2: 2-hour interval, ..., 47: 47-hour interval, 48: 48-hour interval	
Unit	hour	
Default Value	24	
SIPAUDIO	2	Set of SIP session establishment order
Detail	To set whether to establish audio session or T.38 session first with SIP. Usually, audio session followed by T.38 session is established when using IPFAX in an intranet environment. However, this order is not specified by the standard. Set 1 when connecting the SIP server or terminal where the session starts with T.38 session.	
Use Case	When connecting the SIP server or terminal where the session starts with T.38 session	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	When 1 is set, IPFAX fails with the destination where the session starts with audio session.	
Display/Adj/Set Range	0 to 1 0: audio, 1: T.38	
Default Value	0	
Supplement/Memo	SIP: Session Initiation Protocol	
SIPINOUT	2	Set of internal/external number to URI
Detail	To set whether to store the external number or the internal number in From URI when using NGN.	
Use Case	When a call cannot be made with external number while using NGN	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: External number, 1: Internal number	
Default Value	0	
Supplement/Memo	NGN: Next Generation Network URI: Uniform Resource Identifier	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > NETWORK

SIPREGPR	2	Setting of registrar server use protocol
Detail	To set the protocol used for communication with registrar server. Although the protocol that is the same as the one for proxy server is usually used, another protocol can be used in accordance with user and environment.	
Use Case	Upon user's request (to use a protocol different from the one for proxy server)	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 3 0: Protocol set in Settings/Registration menu, 1: UDP, 2: TCP, 3: SSL	
Default Value	0	
Additional Functions Mode	Preferences> Network> TCP/IP Settings> SIP Settings> Intranet Settings	
VLAN-SW	2	ON/OFF VLAN participation packets send
Detail	To set whether to send packets for participating in dynamic VLAN at link-up.	
Use Case	When participating in dynamic VLAN	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
Supplement/Memo	<ul style="list-style-type: none"> - VLAN (Virtual LAN): A method for realizing grouping of terminals depending on the hub, switch connection port, MAC address, protocol, etc. - At link-up: At startup, when LAN cable is connected, when recovering from deep sleep, when pressing the button to reflect the setting (dynamic update) - If IP address of the machine has not been set, an IP address is assigned after participating in VLAN. 	
FTPMODE	1	Set of FTP print default operation mode
Detail	To set the default operation mode of FTP print. Switch the default operation mode between ASCII mode and BIN mode in accordance with user's environment.	
Use Case	At installation	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: ASCII mode, 1: BIN mode	
Default Value	0	
SSLMODE	2	Setting of HTTP/HTTPS port open/close
Detail	<p>*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to open or close HTTP/HTTPS port. When 1 is set while [Use HTTP] is ON and [Use TLS] is OFF in Settings/Registration menu, HTTP port is opened whereas HTTPS port is closed. When 2 is set while both [Use HTTP] and [Use TLS] are ON in Settings/Registration menu, HTTP port is closed whereas HTTPS port is opened.</p>	
Use Case	When limiting the port to open because of security concern	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 2 0: Normal, 1: Open HTTP port (80/8000) only, 2: Open HTTPS port (443/8443) only	
Default Value	0	
Additional Functions Mode	Preferences> Network> TCP/IP Settings> Use HTTP Management Settings> License/Other> MEAP Settings> Use TLS	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > NETWORK

SSLSTRNG	2	Allow weak encryption algorithm for SSL
Detail	To set whether to allow using weak encryption algorithm for SSL. When 1 is set, weak encryption algorithm cannot be used.	
Use Case	When prohibiting weak encryption algorithm because of security concern	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Normal mode, 1: Secured mode (TLS_RSA_WITH_RC4_128_SHA and TLS_RSA_WITH_RC4_128_MD5 are not used)	
Default Value	1	
NW-WAIT	2	Set connect wait at deep sleep recovery
Detail	To set whether to send wakeup notice after the time set in Settings/Registration menu has elapsed when recovering from deep sleep. When 0 is set, wakeup notice is sent after "Waiting Time for Connection at Startup" has elapsed. When 1 is set, wakeup notice is sent when the machine becomes ready for communication.	
Use Case	When a failure of the device management tool occurs	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Wait, 1: Not wait	
Default Value	0	
Additional Functions Mode	Preferences> Network> Waiting Time for Connection at Startup	
WLAN-USE	2	Setting of wireless LAN invalidation
Detail	To set whether to disable the wireless LAN. Bringing in and installation of the wireless LAN equipment may be prohibited depending on user. In such case, set 0 to prevent the wireless LAN to be used. When 0 is set, [Wireless Connection Settings] is not displayed in [Settings/Registration].	
Use Case	When bringing in and installation of the wireless LAN equipment is prohibited	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Disabled, 1: Enabled	
Default Value	1	
Additional Functions Mode	Preferences> Network> Wireless Connection Settings	
WLANPORT	2	Set of port filter at wireless LAN side
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to open all ports at the wireless LAN side. When 0 is set, only the specific port is opened (filter is enabled). Set 1 when using an application which uses a port other than the specific port. All ports are opened (filter is disabled).	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Open the specific port, 1: Open all ports	
Default Value	0	
RAW-PORT	2	[For customization]

COPIER (Service mode for printer) > OPTION (Specification setting mode) > NETWORK

LINKWAKE	2	Set of deep sleep recovery at link-up
Detail	To set whether to recover from deep sleep when link-up (disconnection and then connection of LAN cable) is detected. Set 0 if the closest hub or switch chatters at link-up. It can prevent recovery from deep sleep triggered by chattering.	
Use Case	When the machine recovers from deep sleep due to chattering of the closest hub or switch	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Not recovered, 1: Recovered	
Default Value	1	
WIFIRFCH	2	For R&D
Amount of Change per Unit	1	
BLEPOWER	2	Set of Bluetooth radio field strength
Detail	To set the radio field strength for transmission over BLE (Bluetooth Low Energy). As the value is changed by 1, the radio field strength is changed by 1 dBm.	
Use Case	When radio field strength of BLE is not appropriate	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Do not change the setting in Singapore. It is prohibited by law.	
Display/Adj/Set Range	-10 to -1 (-10 to -1 dBm)	
Default Value	-5	
WSMC-USE	2	[Not used]
WSMC-RST	2	[Not used]
INTENT	2	For R&D
UUID-SW	2	UUID generation method change
Detail	To change to the new UUID generation method when a failure due to the UUID conflict occurred.	
Use Case	When the UUID conflict between multiple devices occurred with following symptoms - When searching for the device, one of devices can't be found or the same device is duplicated - When using AirPrint from MacOS, second and later devices cannot be used for scanning	
Adj/Set/Operate Method	1) Change the setting to "1", and then press OK key. 2) Turn OFF/ON the main power switch. 3) Delete the registered device from a PC or mobile device. 4) Execute the device search and register the machine to the PC or mobile device.	
Caution	- After updating the UUID, it is necessary to delete the device and then add the device again from the printer driver, etc.	
Display/Adj/Set Range	0 to 1 0: Old method, 1: New method	
Default Value	0	
Supplement/Memo	UUID : Universally Unique Identifier This is a unique identifier that is not shared by 2 or more items in the world. It is used to search and register the device on IPP/AirPrint.	

■ ENV-SET

COPIER (Service mode for printer) > OPTION (Specification setting mode) > ENV-SET

ENVP-INT	1	Temp&hmdy/Fix Film temp log get cycle
Detail	To set the cycle to obtain log of the temperature and humidity inside the machine and the surface temperature of the Fixing Film. As the value is incremented by 1, the cycle is increased by 1 minute. Collected log can be displayed in COPIER> DISPLAY> ENVRNT.	
Use Case	At problem analysis	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 480	
Unit	min	
Default Value	60	
Related Service Mode	COPIER> DISPLAY> ENVRNT	
Amount of Change per Unit	1	
DRY-CISU	1	ON/OFF of condensation prevention mode
Detail	To set ON/OFF of condensation prevention mode. Set 1 when an image failure or E225 occurs due to condensation in the Scanner Unit. From the next startup, the Scanner Unit (for front side) stops the fan for 15 sec and the Scanner Unit (for back side) lights LED for 30 sec.	
Use Case	When droplets appear on the Scanner Unit due to condensation and image failure or E225 occurs	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF (Normal mode), 1: ON (Condensation prevention mode)	
Default Value	0	

■ CLEANING

COPIER (Service mode for printer) > OPTION (Specification setting mode) > CLEANING

OHP-PTH	2	Set of ITB clean transp threshold value
Detail	To set the number of sheets as the intervals to execute ITB cleaning when feeding transparency. When a large number of transparencies is fed, surface active agent adheres to the ITB, and consequently the transfer efficiency is lowered, causing an image failure. Normally, a patch is formed on the ITB and surface active agent is removed together with the toner at paper interval for every 30 sheets and at last rotation for every 22 sheets. As the value is changed by 1, the number of sheets at paper interval and last rotation is changed by 1 sheet. When the value is decreased in the case of using transparency to which surface active agent is more likely to be adhered, image failure can be alleviated. When the value is increased, downtime and toner consumption can be reduced, but image failure may occur.	
Use Case	When an image failure occurs due to decrease in the transfer efficiency	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-15 to 15	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > CLEANING

ITBB-TMG	2	Set of ITB toner band formation interval
Detail	<p>To set the conditions to form toner band to reduce friction between the ITB and the ITB Cleaning Blade.</p> <p>Environment: In high/all environments Paper interval: Every 30/60/100 sheets At last rotation: Every 30/60/100 sheets Band length: 20/100 mm</p> <p>As the interval is shorter and the band length is longer, the lubricating effect is high, but downtime and toner consumption are increased.</p>	
Use Case	When noise occurs due to the ITB Cleaning Blade	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 7 0: Depending on the environment (temperature and humidity) 1: In a high temperature environment, at paper interval for every 60 sheets, at last rotation for every 60 sheets, 20 mm in band length 2: In a high temperature environment, at paper interval for every 30 sheets, at last rotation for every 30 sheets, 20 mm in band length 3: In all environments, at paper interval for every 60 sheets, at last rotation for every 60 sheets, 20 mm in band length 4: In all environments, at paper interval for every 30 sheets, at last rotation for every 30 sheets, 20 mm in band length 5: In all environments, at paper interval for every 100 sheets, at last rotation for every 100 sheets, 100 mm in band length 6: In all environments, at paper interval for every 60 sheets, at last rotation for every 60 sheets, 100 mm in band length 7: In all environments, at paper interval for every 30 sheets, at last rotation for every 30 sheets, 100 mm in band length	
Default Value	0	
DRMB-TMG	2	Set of toner band form interval: Drum
Detail	<p>To set the number of sheets as the intervals to form toner band on the Photosensitive Drum at paper interval/last rotation.</p> <p>When 0 is set, the interval is automatically determined based on the image duty and absolute moisture content. As both values increase, the interval is changed as follow.</p> <p>1. Not forming toner band 2: At paper interval for every 200 sheets, at last rotation for every 140 sheets 3: At paper interval/last rotation for every 60 sheets</p> <p>If flip of Drum Cleaning Blade or fusion of toner on the Photosensitive Drum occurs, reduce the interval.</p>	
Use Case	- When flip of the Drum Cleaning Blade occurs - When fusion of toner on the Photosensitive Drum occurs	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	- As the interval is reduced, productivity is decreased. - When dealing with fusion of toner, set the same setting value for DRMR-TMG.	
Display/Adj/Set Range	0 to 2 0: Auto, 1: 60 sheets, 2: 30 sheets	
Default Value	0	
Related Service Mode	COPIER> OPTION> CLEANING> DRMR-TMG	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > CLEANING

DRMR-TMG	2	Setting of drum idle rotation interval
Detail	<p>To set the number of sheets as the intervals to perform idle rotation of the Photosensitive Drum at paper interval/last rotation.</p> <p>When 0 is set, the interval is automatically determined based on the image duty and absolute moisture content. As both values increase, the interval is changed as follow.</p> <ol style="list-style-type: none"> 1. Not performing idle rotation 2: At paper interval for every 600 sheets, at last rotation for every 540 sheets 3: At paper interval/last rotation for every 480 sheets <p>If fusion of toner on the Photosensitive Drum occurs, reduce the interval.</p>	
Use Case	When fusion of toner on the Photosensitive Drum occurs	
Adj/Set/Operate Method	<ol style="list-style-type: none"> 1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch. 	
Caution	<ul style="list-style-type: none"> - As the interval is reduced, productivity is decreased. - Set the same setting value for DRMB-TMG. 	
Display/Adj/Set Range	0 to 2 0: Auto, 1: 480 sheets, 2: 240 sheets	
Default Value	0	
Related Service Mode	COPIER> OPTION> CLEANING> DRMB-TMG	
DRMR-MNG	2	Set additional exe: wrmup rtn,1st pw-on
Detail	<p>To set whether to form toner band on the Photosensitive Drum and extend idle rotation time of the drum at warm-up rotation performed first time for the day.</p> <p>Set 1 or 2 when image smear occurs. When absolute moisture content is 19.8 g/m³ or more, toner band is formed and idle rotation of the drum is extended.</p> <p>Set 3 or 4 when an image failure occurs after replacement of the ITB with a new one. When absolute moisture content is 19.8 g/m³ or more and the ITB parts counter is less than 50,000 sheets, toner band is formed and idle rotation of the drum is extended. When the ITB parts counter shows 50,000 sheets or more, the setting is disabled.</p> <p>Set 5 or 6 to form toner band and extend idle rotation of the drum regardless of usage environment.</p>	
Use Case	<ul style="list-style-type: none"> - When image smear occurs - When an image failure occurs after replacement of the ITB - White lines at intervals of drum circumference (engagement position of the Photosensitive Drum and the ITB) - White lines/black lines at intervals of ITB circumference - When the foregoing image failures are expected to occur (19.8 g/m³ or more of absolute moisture content) 	
Adj/Set/Operate Method	<ol style="list-style-type: none"> 1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch. 	
Caution	When 1to 6 is set, FCOT becomes longer. Switch the setting according to the usage environment.	
Display/Adj/Set Range	0 to 6 0: OFF 1: 30 seconds (Moisture content: 19.8 g/m ³ or more) 2: 60 seconds (Moisture content: 19.8 g/m ³ or more) 3: 30 seconds (Moisture content: 19.8 g/m ³ , TR-BLT < 50000) 4: 60 seconds (Moisture content: 19.8 g/m ³ , TR-BLT < 50000) 5: 30 seconds 6: 60 seconds	
Default Value	0	
Related Service Mode	COPIER> COUNTER> DRBL-1> TR-BLT	

■ FEED-SW

COPIER (Service mode for printer) > OPTION (Specification setting mode) > FEED-SW

EVLP-SPD	1	Setting of envelope feeding speed
Detail	To set the feeding speed of envelope. By feeding an envelope at 1/2 speed (default) in the case of a high humidity environment, the glue flap may adhere at the time of fixing. As a result of that, the envelope may not be opened. When 1/1 speed is set, adhesion can be prevented, but fixing performance is decreased in a low humidity environment.	
Use Case	When a glue flap of envelope adheres	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	When 1 is set in a low humidity environment, fixing performance is decreased.	
Display/Adj/Set Range	0 to 1 0: 1/2 speed, 1: 1/1 speed	
Default Value	0	
Related Service Mode	COPIER> OPTION> FEED-SW> EVLP-FS	
PINT-REG	2	Set clr displace crrcct control exe frqcy
Detail	To set the frequency of color displacement correction control executed at the start of a job and during a job (at paper interval). As the execution frequency is higher, color displacement is less likely to occur, but productivity is decreased.	
Use Case	When reducing the frequency of color displacement	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	By shortening the intervals between color displacement correction control, stability is improved, but productivity is decreased.	
Display/Adj/Set Range	0 to 3 0: Normal (Priority on productivity) 1: Small effect (Color displacement correction: Medium frequency) 2: Moderate effect (Color displacement correction: High frequency) 3: Large effect (Color displacement correction: Constantly executed)	
Default Value	0	
EVLP-FS	2	Setting of fixing speed: envelope
Detail	To set fixing speed when feeding envelope. As the value is changed by 1, the fixing speed is changed by 0.1%. Decrease the value when fine line displacement occurs on trailing edge of envelope, and increase the value when wrinkles occur.	
Use Case	When fine line displacement or wrinkles occur on trailing edge while feeding envelope	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Caution	Be sure to change the value a little at a time. Otherwise, fine line displacement/wrinkles occur when setting an extreme value.	
Display/Adj/Set Range	-20 to 20	
Unit	%	
Default Value	0	
Related Service Mode	COPIER> OPTION> FEED-SW> EVLP-SPD	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > FEED-SW

TFL-RTC	1	Set delvry dest at rcvry after tray full
Detail		To select the delivery destination for a job with multiple pages after recovering the Delivery Tray that reaches the full level. When 0 is set, a job is output from the delivery destination again from which the last job was delivered. When 1 is set, a job is output from the delivery destination which priority is set as high at "Output Tray Settings" in [Settings/Registration].
Use Case		When changing the delivery tray
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Output from the tray from which the last job was output, 1: Output from the delivery destination which priority is high among the delivery trays
Default Value		0
Additional Functions Mode		Function Settings> Common> Paper Output Settings> Output Tray Settings
USZ-FEED	1	[Not used]

■ IMG-SPD

COPIER (Service mode for printer) > OPTION (Specification setting mode) > IMG-SPD

FX-D-TMP	1	Set of down sequence start temperature
Detail		To set a temperature to start the down sequence control when overheating occurs on the edge of the Fixing Film. As the value is changed by 1, the temperature is changed by 5 deg C from the initial setting temperature.
Use Case		- When fixing offset occurs on the edge of paper - Upon user's request (to improve productivity)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-4 to 4 -4: -20 deg C, -3: -15 deg C, -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C, 3: +15 deg C, 4: +20 deg C
Unit		deg C
Default Value		0
Amount of Change per Unit		5

COPIER (Service mode for printer) > OPTION (Specification setting mode) > IMG-SPD

FIX-ROT	1	Set idle rtn stop cndtn after s-ppr feed
Detail	<p>Temperature on the edges of the Fixing Film becomes higher than the temperature at the center when feeding large size paper after small size paper through the Fixing Assembly. Idle rotation is executed until temperature is decreased to the specified value after feeding small size paper to prevent occurrence of fixing offset or wrinkles.</p> <p>To set the temperature and time as the conditions to stop idle rotation.</p> <p>Temperature: Offset value from the specified temperature (deg C)</p> <p>Time: Tolerance (seconds) When the time exceeds the tolerance, idle rotation is stopped even if the temperature is not decreased to the desired temperature.</p> <p>Increase the value when fixing offset or wrinkles occur. Because temperature is decreased, image quality is improved, but productivity is decreased.</p> <p>When the value is decreased, temperature is increased. As a result, productivity is increased, but image quality may be decreased.</p>	
Use Case	<ul style="list-style-type: none"> - When fixing offset occurs on the edge of paper - Upon user's request (to improve productivity) 	
Adj/Set/Operate Method	<ol style="list-style-type: none"> 1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 	
Display/Adj/Set Range	<p>-2 to 2</p> <p>-2: +20 deg C, 10 seconds</p> <p>-1: +10 deg C, 20 seconds</p> <p>0: 0 deg C</p> <p>1: -10 deg C, 45 seconds</p> <p>2: -20 deg C, 60 seconds</p>	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
INTPPR-2	2	Set multi tone ctrl (light) stop intvl
Detail	<p>To set the number of sheets which the real-time multiple tone control (light) and automatic adjustments (discharge current control and primary transfer ATVC control) at paper interval are not executed, from the start of a job.</p> <p>If interruption occurs immediately after starting a job, process speed cannot be maintained. Disable each control not to interrupt an ongoing job until a specified number of sheets are fed to prevent decrease in productivity.</p> <p>Increase the value when prioritizing productivity over image quality, and decrease the value when the density varies dramatically.</p>	
Use Case	<ul style="list-style-type: none"> - When the density varies dramatically - Upon user's request (to improve productivity) 	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	Do not set a value larger than those of INTPPR-1 and INTROT-1.	
Display/Adj/Set Range	5 to 1000	
Unit	sheet	
Default Value	60	
Related Service Mode	COPIER> OPTION> IMG-DEV> INTPPR-1 COPIER> OPTION> FNC-SW> INTROT-1	
Amount of Change per Unit	1	

■ IMG-RDR

COPIER (Service mode for printer) > OPTION (Specification setting mode) > IMG-RDR

DFDST-L1	1	ON/OFF dust detection: ppr intvl, front
Detail	To set whether the Scanner Unit (for front side) performs dust detection at paper interval. Set one of 1 to 255 when black lines appear. Dust detection is performed at paper interval, and then dust detection correction control is performed as needed. Set 0 if a fine image portion is unclear as a result of dust detection correction.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 255 0: OFF, 1 to 255: ON	
Default Value	200	
Supplement/Memo	Black lines may appear on the image if there is dust. With dust detection correction control, the image is corrected to prevent black lines once dust is detected.	
DFDST-L2	1	Adj dust detect level: 1st stream, front
Detail	To adjust dust detection level with dust detection correction control that is executed by the Scanner Unit (for front side) at the first stream reading after power-on. Decrease the value in the case of frequent display of cleaning instruction at the time of dust detection. As the value is smaller, dust is less likely to be detected. When 0 is set, the cleaning instruction is not displayed. Increase the value when black lines appear. As the value is larger, the small dust is more likely to be detected.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	If the value is too small, black lines may appear on the image.	
Display/Adj/Set Range	0 to 255 0: OFF	
Default Value	200	
Supplement/Memo	Black lines may appear on the image if there is dust. With the dust detection correction control that is executed after power-on, reading position is adjusted to minimize dust to be detected.	
DF2DSTL1	1	ON/OFF dust detection: ppr intvl, back
Detail	To set whether the Scanner Unit (for back side) performs dust detection at paper interval. Set one of 1 to 255 when black lines appear. Dust detection is performed at paper interval, and then dust detection correction control is performed as needed. Set 0 if a fine image portion is unclear as a result of dust detection correction.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 255 0: OFF, 1 to 255: ON	
Default Value	200	
Supplement/Memo	Black lines may appear on the image if there is dust. With dust detection correction control, the image is corrected to prevent black lines once dust is detected.	

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DF2DSTL2	1	Adj dust detect level: 1st stream, back
Detail	To adjust dust detection level with dust detection correction control that is executed by the Scanner Unit (for back side) at the first stream reading after power-on. Decrease the value in the case of frequent display of cleaning instruction at the time of dust detection. As the value is smaller, dust is less likely to be detected. When 0 is set, the cleaning instruction is not displayed. Increase the value when black lines appear. As the value is larger, the small dust is more likely to be detected.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	If the value is too small, black lines may appear on the image.	
Display/Adj/Set Range	0 to 255 0: OFF	
Default Value	200	
Supplement/Memo	Black lines may appear on the image if there is dust. With the dust detection correction control that is executed after power-on, reading position is adjusted to minimize dust to be detected.	

■ IMG-MCON

COPIER (Service mode for printer) > OPTION (Specification setting mode) > IMG-MCON

PASCAL	1	Set of auto gradation adjustment data
Detail	To set the gradation adjustment data that is used at image formation. When 0 is set, the initial LUT is used. When 1 is set, the gradation adjustment data gamma LUT that is generated by auto gradation adjustment (full/quick adjustment) control is used.	
Use Case	When PASCAL-related failure occurs/when identifying the cause of PASCAL-related failure	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 3 0: Initial LUT, 1: Auto gradation adjustment data, 2 to 3: Not used	
Default Value	1	
SCR-SLCT	2	Halftone process in Photo Printout mode
Detail	To set halftone process (error diffusion, 2 screen types) in Photo Printout mode when making a copy. When moire occurs on a copy image, set 0 (suitable for character reproduction). When halftone dots are rough, set 2.	
Use Case	When moire image or rough dots occurs on copy image	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 2 0: Error diffusion, 1: Low screen ruling, 2: High screen ruling	
Default Value	1	
Additional Functions Mode	Function Settings> Copy> Photo Printout Mode	

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TMC-SLCT	2	Set error diffusion process coefficient
Detail	To set coefficient to be used for error diffusion processing. Make the setting according to the level of granularity and dot stability.	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 2 0: Small granularity/low dot stability 1: Small granularity/low dot stability (color mode), Large granularity/high dot stability (black mode) 2: Large granularity/high dot stability	
Default Value	2	
PRN-FLG	2	Select of image area flag (PDL image)
Detail	To set the image area flag for image processing which is performed when a PDL image fails to be compressed at a specified compression rate. If an image fails to be compressed at a specified compression rate, the following operations are performed as default: - Processing to prioritize reproduction of text - Replacing the processed black with single Bk-color Set 1 when moire occurs or jaggy is significant. Set 2 when not preferring to replace the processed black with single Bk-color.	
Use Case	- When moire occurs or jaggy is significant in case of printing an image containing many halftone dots or photos - When avoiding to replace the processed black with single Bk-color	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	This setting trades off with reproducibility of text.	
Display/Adj/Set Range	0 to 2 0: High screen ruling, gray compensation LUT 1: Error diffusion, gray compensation LUT 2: High screen ruling, normal LUT	
Default Value	0	
SCN-FLG	2	Select of image area flag (copy image)
Detail	To set the image area flag for image processing which is performed when a scanned image fails to be compressed at a specified compression rate. If an image fails to be compressed at a specified compression rate, processing to prioritize reproduction of text is performed by default. Set 1 when an image contains many halftone photo images. Set 2 when an image contains many printed photos.	
Use Case	When copying an image which contains many halftone dots and photos	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	This setting trades off with reproducibility of text.	
Display/Adj/Set Range	0 to 2 0: Text, 1: Halftone photo image, 2: Printed photo	
Default Value	0	

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TMIC-BK	2	ON/OFF of TMIC Bk_LUT end edge correct
Detail	To set ON/OFF of the trailing edge adjustment of Bk_LUT for PDL and for copy which are used by TMIC. When the trailing edge adjustment is set to ON, the density of the high density area becomes high, and consequently text and thin lines become clear. While an image becomes clear, hue of the gradation area of photos, etc. is changed.	
Use Case	When thin lines are partly missing or characters are faded	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 3 0: ON for PDL, OFF for copy 1: OFF for PDL, OFF for copy 2: ON for PDL, ON for copy 3: OFF for PDL, ON for copy	
Default Value	2	
MIX-FLG	2	Set img processing at img composition
Detail	To set the image processing which is performed when an image fails to be compressed at a specified compression rate by the Main Controller upon image composition.	
Use Case	When an image processing failure occurs	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 3 0: Equivalent to PDL text mode (Black text is reproduced with 4 colors. Error diffused image. The hue of the photo area is more vivid than that of 2.) 1: Equivalent to PDL photo mode (Black text is reproduced with 4 colors. Screen processed image.) 2: Equivalent to scanned text mode (Black text is reproduced with a single Bk color. Error diffused image. The hue of the photo area might be different from that of 0.) 3: Equivalent to scanned photo mode (Black text is reproduced with a single Bk color. Screen processed image.)	
Default Value	0	
REPORT-Z	1	Set of image processing at report print
Detail	To set the image processing which is performed when printing a report.	
Use Case	When there is a request for image improvement	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 3 0: Equivalent to PDL text mode (Black text is reproduced with 4 colors. Error diffused image. The hue of the photo area is more vivid than that of 2.) 1: Equivalent to PDL photo mode (Black text is reproduced with 4 colors. Screen processed image.) 2: Equivalent to scanned text mode (Black text is reproduced with a single Bk color. Error diffused image. The hue of the photo area might be different from that of 0.) 3: Equivalent to scanned photo mode (Black text is reproduced with a single Bk color. Screen processed image.)	
Default Value	0	

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IFXEML-Z	1	Set img proc at clr IFAX/mail rcv print
Detail		To set the image processing which is performed when printing color IFAX or received e-mail.
Use Case		When there is a request for image improvement
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 3 0: Equivalent to PDL text mode (Black text is reproduced with 4 colors. Error diffused image. The hue of the photo area is more vivid than that of 2.) 1: Equivalent to PDL photo mode (Black text is reproduced with 4 colors. Screen processed image.) 2: Equivalent to scanned text mode (Black text is reproduced with a single Bk color. Error diffused image. The hue of the photo area might be different from that of 0.) 3: Equivalent to scanned photo mode (Black text is reproduced with a single Bk color. Screen processed image.)
Default Value		0
BMLNKS-Z	1	Set img proc at BMLinkS reception print
Detail		To set the image processing which is performed when printing received BMLinkS.
Use Case		When there is a request for image improvement
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 3 0: Equivalent to PDL text mode (Black text is reproduced with 4 colors. Error diffused image. The hue of the photo area is more vivid than that of 2.) 1: Equivalent to PDL photo mode (Black text is reproduced with 4 colors. Screen processed image.) 2: Equivalent to scanned text mode (Black text is reproduced with a single Bk color. Error diffused image. The hue of the photo area might be different from that of 0.) 3: Equivalent to scanned photo mode (Black text is reproduced with a single Bk color. Screen processed image.)
Default Value		0
Supplement/Memo		BMLinkS (Business Machine Linkage Service): An integrated network OA device interface
REDU-CNT	2	Set toner deposit amount limt at clr adj
Detail		To set whether to limit the toner deposit amount at color adjustment (color balance, fine adjustment of density). When 0 is set, the color adjustment value is reflected to an image precisely, but toner scattering in the transfer section and fixing section may occur or paper may wind around the Fixing Film. When setting 1 for IMGC-ADJ, this setting can be also made in [Adjust Toner Volume Used for Color Printing] in [Settings/Registration].
Use Case		- Upon user's request - When reflecting the color adjustment value to an image precisely
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		When 0 is set, toner scattering in the transfer section and fixing section or paper wrapping in the fixing section may occur.
Display/Adj/Set Range		0 to 1 0: Toner deposit amount is not limited. 1: Toner deposit amount is limited to the specified amount.
Default Value		1
Related Service Mode		COPIER> OPTION> DSPLY-SW> IMGC-ADJ
Additional Functions Mode		Adjustment/Maintenance> Adjust Image Quality> Adjust Toner Volume Used for Color Printing

COPIER (Service mode for printer) > OPTION (Specification setting mode) > IMG-MCON

VP-ART	2	Setting of line art processing
Detail	<p>To set outline processing for line art on scalable PDF.</p> <p>In the outline processing, a binary image outline is extracted in the field which is recognized as line art, and is converted into vector data.</p> <p>Specify whether to convert the binary image outline into vector data or to recognize it as one line (as a thin line). For the thin line, the line width can be specified.</p> <p>Change this value when you want to obtain an output of a wide-width line as one line rather than as an outline (when you want to prioritize edit operation as a line rather than image quality).</p>	
Use Case	Upon user's request	
Adj/Set/Operate Method	<p>1) Enter the setting value, and then press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	0 to 99	
Default Value	1	
VP-TXT	2	Setting of character vectorization
Detail	<p>To set vector conversion processing for text on scalable PDF.</p> <p>In the vector conversion processing, a binary image outline is extracted in the field which is recognized as text, and is converted into vector data.</p> <p>In regular vector conversion, function approximation is not used for small text because the image quality is not changed.</p> <p>When the value is changed, function approximation processing is executed for small text, which realizes smooth text although the image quality is changed.</p> <p>Change this value when you want to prioritize smoothness in small text.</p>	
Use Case	Upon user's request	
Adj/Set/Operate Method	<p>1) Enter the setting value, and then press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	0 to 99	
Default Value	1	
PASCL-TY	2	Set of paper type for auto gradation adj
Detail	<p>Auto gradation adjustment is normally executed with the recommended paper specified for each location. However, if you want to change the paper type, use this setting to change the paper type.</p>	
Use Case	When executing the auto gradation adjustment using a paper other than the recommended paper type	
Adj/Set/Operate Method	<p>1) Enter the setting value, and then press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Caution	Do not change the setting in the normal operation.	
Display/Adj/Set Range	<p>1 to 3</p> <p>1: CS-680 (Except for USA and EU. Mainly for Japan)</p> <p>2: Canon Multipurpose Paper (For USA)</p> <p>3: Oce RED Label80 (For EU)</p>	
Default Value	It differs according to the location.	
AST-SEL	2	Adj of advanced smoothing effect
Detail	<p>To adjust the smoothing effect which is set in the advanced smoothing UI.</p> <p>Set 3 if no smoothing effect is obtained even though High is set in the advanced smoothing UI.</p> <p>Set 0 if too much effect is obtained even though Low is set in the advanced smoothing UI.</p>	
Use Case	When image failures (jaggy, moire) occur	
Adj/Set/Operate Method	<p>1) Enter the setting value, and then press OK key.</p> <p>2) Turn OFF/ON the main power switch.</p>	
Display/Adj/Set Range	0 to 3	
Default Value	2	
Supplement/Memo	AST: Advanced Smoothing Technology	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > IMG-MCON

PSCL-TBL	1	Setting of Bk-color density increase
Detail	To set whether to increase the density of Bk-color. When 1 is set, the parameters of auto gradation adjustment are adjusted so that Bk-color becomes darker. As the Bk-color toner deposit amount is increased, toner deposit amounts of Y/M/C-color which are mixed with Bk-color are decreased.	
Use Case	When black color density is low on plain paper with rough surface (rough paper)	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch. 3) Execute auto gradation adjustment (full adjustment).	
Caution	Be sure to execute auto gradation adjustment (full adjustment) after the setting is done.	
Display/Adj/Set Range	0 to 1 0: Normal, 1: Only the density of Bk-color is high	
Default Value	0	
BGE-OFS	2	Fine adj at bckgd adj (bckgd removal)
Detail	To make a fine adjustment of the background adjustment (background removal) level which can be set manually. Break up the adjustment values into smaller ones when user does not satisfy with the default adjustment values.	
Use Case	When color fogging occurs on the output image when copying yellowed blank paper as an original	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Caution	Since the background color is set to be washed out with this mode, not only the background of yellowed blank paper, but also other light colors (light blue, etc.) are washed out.	
Display/Adj/Set Range	-15 to 15	
Default Value	0	
Additional Functions Mode	Copy> Options> Density> Background Density	
DITH-FB	2	Real-time multi tone ctrl crrect: dither
Detail	To set the extent of the correction result of gradation that has been corrected by low screen ruling dithering of real-time multiple tone control to be reflected to other dithering methods in percentage (%). When PTN-INT is 1, this setting is enabled.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 100	
Unit	%	
Default Value	10	
Related Service Mode	COPIER> OPTION> IMG-MCON> PTN-INT	
FL-FB	2	Set multi tone ctrl (full) feedback rate
Detail	To set the extent of the gradation correction result of real-time multiple tone control (full) to be reflected to LUT in percentage. If the value is large, gradation will be closer to the target value with a single execution of the control. However, the hue may be changed dramatically before and after the execution. Decrease the value when prioritizing hue continuity. Degree of correction by the control will be small.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 100	
Unit	%	
Default Value	100	
Amount of Change per Unit	1	

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INT-FB	2	Set multi tone ctrl(light) feedback rate
Detail	To set the extent of the gradation correction result of real-time multiple tone control (light) to be reflected to LUT in percentage. If the value is large, gradation will be closer to the target value with a single execution of the control. However, the hue may be changed dramatically before and after the execution. Decrease the value when prioritizing hue continuity. Degree of correction by the control will be small.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 100	
Unit	%	
Default Value	30	
Amount of Change per Unit	1	
PTN-INT	2	Set of multi tone control patch pattern
Detail	To set the patch patter formed by real-time multiple tone control (light). When 0 is set, 1-gradation patches are formed by each dithering method (error diffusion/low screen ruling/high screen ruling) for each color (Y/M/C/Bk). When 1 is set, 3-gradation patches are formed by low screen ruling dithering method for each color (Y/M/C/Bk). In this case, the gradation correction result is reflected to other dithering methods at the rate set in DITH-FB.	
Use Case	When hue variation occurs	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: Patch pattern 1, 1: Patch pattern 2	
Default Value	0	
Related Service Mode	COPIER> OPTION> IMG-MCON> DITH-FB	
BOLD-SEL	1	For R&D
BIN-SEL	2	For R&D

■ IMG-DEV

COPIER (Service mode for printer) > OPTION (Specification setting mode) > IMG-DEV

INTPPR-1	2	Set multi tone control (light) exe intvl
Detail	To set the number of sheets as the intervals to execute real-time multiple tone control (light). When the number of sheets reaches the specified value, the control is executed by interrupting an ongoing job. After starting a job, however, it is not executed until the number of sheets reaches the value set in INTPPR-2. Increase the value when prioritizing productivity over image quality, and decrease the value when the density varies dramatically.	
Use Case	- When the density varies dramatically - Upon user's request (to improve productivity)	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	If the value is too large, the density of image becomes different before and after the interruption. If the value is too small, productivity is decreased.	
Display/Adj/Set Range	5 to 1000	
Unit	sheet	
Default Value	200	
Related Service Mode	COPIER> OPTION> IMG-SPD> INTPPR-2	
Amount of Change per Unit	1	

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DVTGT-K	2	Adj of ATR Sensor (Bk) gain value offset
Detail		To actually correct the TD ratio by setting the offset of the gain value of ATR Sensor (Bk). When the value is increased (TD ratio is increased), uneven density due to poor stirring by screw is alleviated, but fogging may occur. The target value of TD ratio changes when changing the value. Therefore, after the setting has been changed, it is necessary to make TD ratio stable by executing toner ejection sequence. When the Developing Unit is replaced, the value is returned to 0.
Use Case		When uneven density due to poor stirring by screw occurs
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Execute toner ejection sequence.
Caution		After the value is changed, execute the toner ejection sequence. Note that toner ejection sequence must be executed for each color even though values for multiple colors are changed.
Display/Adj/Set Range		-3 to 3
Default Value		0
Related Service Mode		COPIER> TEST> PG> COLOR-K, DENS-K, PG-QTY, TYPE
Additional Functions Mode		Adjustment/Maintenance> Maintenance> Clean Inside Main Unit
Supplement/Memo		Procedure to execute toner ejection sequence 1) Execute [Clean Inside Main Unit] in [Settings/Registration] (which takes time). 2) Place 10 sheets of A4 size paper for test print in a paper source. 3) Set 1 for COLOR-K. 4) Set 255 (solid black) for DENS-K. 5) Set 10 for PG-QTY. 6) Set 5 (whole-area halftone image) for TYPE.
DVTGT-Y	2	Adj of ATR Sensor (Y) gain value offset
Detail		To actually correct the TD ratio by setting the offset of the gain value of ATR Sensor (Y). When the value is increased (TD ratio is increased), uneven density due to poor stirring by screw is alleviated, but fogging may occur. The target value of TD ratio changes when changing the value. Therefore, after the setting has been changed, it is necessary to make TD ratio stable by executing toner ejection sequence. When the Developing Unit is replaced, the value is returned to 0.
Use Case		When uneven density due to poor stirring by screw occurs
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Execute toner ejection sequence.
Caution		After the value is changed, execute the toner ejection sequence. Note that toner ejection sequence must be executed for each color even though values for multiple colors are changed.
Display/Adj/Set Range		-3 to 3
Default Value		0
Related Service Mode		COPIER> TEST> PG> COLOR-Y, DENS-Y, PG-QTY, TYPE
Additional Functions Mode		Adjustment/Maintenance> Maintenance> Clean Inside Main Unit
Supplement/Memo		Procedure to execute toner ejection sequence 1) Execute [Clean Inside Main Unit] in [Settings/Registration] (which takes time). 2) Place 10 sheets of A4 size paper for test print in a paper source. 3) Set 1 for COLOR-Y. 4) Set 255 (solid black) for DENS-Y. 5) Set 10 for PG-QTY. 6) Set 5 (whole-area halftone image) for TYPE.

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DVTGT-M	2	Adj of ATR Sensor (M) gain value offset
Detail	To actually correct the TD ratio by setting the offset of the gain value of ATR Sensor (M). When the value is increased (TD ratio is increased), uneven density due to poor stirring by screw is alleviated, but fogging may occur. The target value of TD ratio changes when changing the value. Therefore, after the setting has been changed, it is necessary to make TD ratio stable by executing toner ejection sequence. When the Developing Unit is replaced, the value is returned to 0.	
Use Case	When uneven density due to poor stirring by screw occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Execute toner ejection sequence.	
Caution	After the value is changed, execute the toner ejection sequence. Note that toner ejection sequence must be executed for each color even though values for multiple colors are changed.	
Display/Adj/Set Range	-3 to 3	
Default Value	0	
Related Service Mode	COPIER> TEST> PG> COLOR-M, DENS-M, PG-QTY, TYPE	
Additional Functions Mode	Adjustment/Maintenance> Maintenance> Clean Inside Main Unit	
Supplement/Memo	Procedure to execute toner ejection sequence 1) Execute [Clean Inside Main Unit] in [Settings/Registration] (which takes time). 2) Place 10 sheets of A4 size paper for test print in a paper source. 3) Set 1 for COLOR-M. 4) Set 255 (solid black) for DENS-M. 5) Set 10 for PG-QTY. 6) Set 5 (whole-area halftone image) for TYPE.	
DVTGT-C	2	Adj of ATR Sensor (C) gain value offset
Detail	To actually correct the TD ratio by setting the offset of the gain value of ATR Sensor (C). When the value is increased (TD ratio is increased), uneven density due to poor stirring by screw is alleviated, but fogging may occur. The target value of TD ratio changes when changing the value. Therefore, after the setting has been changed, it is necessary to make TD ratio stable by executing toner ejection sequence. When the Developing Unit is replaced, the value is returned to 0.	
Use Case	When uneven density due to poor stirring by screw occurs	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Execute toner ejection sequence.	
Caution	After the value is changed, execute the toner ejection sequence. Note that toner ejection sequence must be executed for each color even though values for multiple colors are changed.	
Display/Adj/Set Range	-3 to 3	
Default Value	0	
Related Service Mode	COPIER> TEST> PG> COLOR-C, DENS-C, PG-QTY, TYPE	
Additional Functions Mode	Adjustment/Maintenance> Maintenance> Clean Inside Main Unit	
Supplement/Memo	Procedure to execute toner ejection sequence 1) Execute [Clean Inside Main Unit] in [Settings/Registration] (which takes time). 2) Place 10 sheets of A4 size paper for test print in a paper source. 3) Set 1 for COLOR-C. 4) Set 255 (solid black) for DENS-C. 5) Set 10 for PG-QTY. 6) Set 5 (whole-area halftone image) for TYPE.	

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AUTO-DH	1	ON/OFF D-max/multi tone ctrl: wrmup rtn
Detail		To set whether to execute D-max control and real-time multiple tone control (full) at warm-up rotation. When 0 is set, the control is not executed. When 1 is set, it is executed only in an HH (high temperature and high humidity) environment. When 2 is set, it is executed in all environments.
Use Case		When image smear occurs in an HH environment
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 2 0: OFF, 1: ON (HH environment only), 2: ON (all environments)
Default Value		0
PCHINT-1	2	Setting of ATR patch formation interval
Detail		To set the number of sheets as the intervals to execute patch detection by ATR control. Decrease the value when hue variation occurs, and increase the value to increase the productivity.
Use Case		- When hue variation occurs - Upon user's request (to reduce downtime)
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 5 0: At paper interval for every 50 sheets, at last rotation for every 35 sheets 1: At paper interval for every 100 sheets, at last rotation for every 70 sheets 2: At paper interval for every 200 sheets, at last rotation for every 140 sheets 3: At paper interval for every 400 sheets, at last rotation for every 280 sheets 4: At paper interval for every 700 sheets, at last rotation for every 490 sheets 5: At paper interval for every 1000 sheets, at last rotation for every 700 sheets
Default Value		2
Related Service Mode		COPIER> OPTION> CLEANING> ITBB-TMG
Amount of Change per Unit		1
PCHINT-V	2	Adj ATR patch VD counter total VL intvl
Detail		To adjust the interval of the total video counter value, that is the condition to execute patch detection by ATR control. Decrease the value when hue variation occurs, and increase the value to increase the productivity.
Use Case		- When hue variation occurs - Upon user's request (to reduce downtime)
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 5
Default Value		2
DELV-THY	2	Set image ratio for Y-color toner eject
Detail		To set the threshold value of average image ratio of Y-color, that is the condition to perform the low duty toner ejection sequence. When fogging occurs while making a large number of outputs of low duty images, increase the value. Execution frequency of the toner ejection is increased so fogging is alleviated, but toner consumption is increased. If the user does not want too many waste toner when low duty image is output, decrease the value. Toner consumption is decreased, but fogging is likely to occur.
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 5 0: 0%, 1: 1%, 2: 2%, 3: 3%, 4: 4%, 5: 5%
Default Value		1

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DELV-THC	2	Set image ratio for C-color toner eject
Detail	To set the threshold value of average image ratio of C-color, that is the condition to perform the low duty toner ejection sequence. When fogging occurs while making a large number of outputs of low duty images, increase the value. Execution frequency of the toner ejection is increased so fogging is alleviated, but toner consumption is increased. If the user does not want too many waste toner when low duty image is output, decrease the value. Toner consumption is decreased, but fogging is likely to occur.	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 5 0: 0%, 1: 1%, 2: 2%, 3: 3%, 4: 4%, 5: 5%	
Default Value	1	
DELV-THM	2	Set image ratio for M-color toner eject
Detail	To set the threshold value of average image ratio of M-color, that is the condition to perform the low duty toner ejection sequence. When fogging occurs while making a large number of outputs of low duty images, increase the value. Execution frequency of the toner ejection is increased so fogging is alleviated, but toner consumption is increased. If the user does not want too many waste toner when low duty image is output, decrease the value. Toner consumption is decreased, but fogging is likely to occur.	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 5 0: 0%, 1: 1%, 2: 2%, 3: 3%, 4: 4%, 5: 5%	
Default Value	1	
DELV-THK	2	Set image ratio for Bk-color toner eject
Detail	To set the threshold value of average image ratio of Bk-color, that is the condition to perform the low duty toner ejection sequence. When fogging occurs while making a large number of outputs of low duty images, increase the value. Execution frequency of the toner ejection is increased so fogging is alleviated, but toner consumption is increased. If the user does not want too many waste toner when low duty image is output, decrease the value. Toner consumption is decreased, but fogging is likely to occur.	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 5 0: 0%, 1: 1%, 2: 2%, 3: 3%, 4: 4%, 5: 5%	
Default Value	1	
ADJ-VPP	2	Adj of developing AC bias Vpp
Detail	To adjust Vpp of the developing AC bias. Decrease the value when ring marks occur. Increase the value when white spots occur.	
Use Case	When image failures (ring marks, white spots) occur	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Execute auto gradation adjustment (full adjustment).	
Caution	If the value is too small, density may be lowered.	
Display/Adj/Set Range	-4 to 1	
Default Value	0	

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SL-RATIO	1	Set Dev Cylndr perif SPD ratio: 1/2 SPD
Detail	To set whether to increase the peripheral speed ratio of the Developing Upper Cylinder and the Developing Lower Cylinder at 1/2 speed. Set 1 when vertical black lines appear on the left edge of the image under the following conditions. - Paper length is 12 inches or longer - At 1/2 speed (heavy paper 2 to 7 (129 to 300 g/m ²)/coated paper) - Image ratio is high	
Use Case	When black vertical lines appear on the left edge of the image at 1/2 speed	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	The setting is applied only at 1/2 speed.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
DMX-OF-Y	2	Adj of Y-color D-max target density
Detail	To adjust the target density of D-max control in the case where density of solid area on Y-color image is not appropriate even when auto gradation adjustment is executed. Increase the value when the density is low and decrease the value when the density is high.	
Use Case	When density of solid area is not appropriate even though auto gradation adjustment is executed	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Execute auto gradation adjustment (full adjustment).	
Caution	Be sure to execute auto gradation adjustment (full adjustment) after the setting is done.	
Display/Adj/Set Range	-3 to 3	
Default Value	0	
DMX-OF-M	2	Adj of M-color D-max target density
Detail	To adjust the target density of D-max control in the case where density of solid area on M-color image is not appropriate even when auto gradation adjustment is executed. Increase the value when the density is low and decrease the value when the density is high.	
Use Case	When density of solid area is not appropriate even though auto gradation adjustment is executed	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Execute auto gradation adjustment (full adjustment).	
Caution	Be sure to execute auto gradation adjustment (full adjustment) after the setting is done.	
Display/Adj/Set Range	-3 to 3	
Default Value	0	
DMX-OF-C	2	Adj of C-color D-max target density
Detail	To adjust the target density of D-max control in the case where density of solid area on C-color image is not appropriate even when auto gradation adjustment is executed. Increase the value when the density is low and decrease the value when the density is high.	
Use Case	When density of solid area is not appropriate even though auto gradation adjustment is executed	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Execute auto gradation adjustment (full adjustment).	
Caution	Be sure to execute auto gradation adjustment (full adjustment) after the setting is done.	
Display/Adj/Set Range	-3 to 3	
Default Value	0	

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DMX-OF-K	2	Adj of Bk-color D-max target density
Detail	To adjust the target density of D-max control in the case where density of solid area on Bk-color image is not appropriate even when auto gradation adjustment is executed. Increase the value when the density is low and decrease the value when the density is high.	
Use Case	When density of solid area is not appropriate even though auto gradation adjustment is executed	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch. 3) Execute auto gradation adjustment (full adjustment).	
Caution	Be sure to execute auto gradation adjustment (full adjustment) after the setting is done.	
Display/Adj/Set Range	-3 to 3	
Default Value	0	
ZAB-TH	2	Set of toner band form duration at stop
Detail	To set the duration of toner band formation on the Photosensitive Drum for Bk-color (number of fed sheets) while drive is stopped. While drive is stopped, the Photosensitive Drum for Bk-color is in contact with the ITB. If the contact state remains, the coating agent of the ITB penetrates to the surface, causing no toner deposit on the contact area of the drum. As the result, white lines appear on Bk-color image at intervals of drum circumference (94 mm). The newer the ITB is, the more likely the component penetrates. Therefore, toner band is formed on the contact area of the drum and the ITB while drive is stopped until the number of sheets set in ZAB-TH is fed. When 0 is set, toner band is not formed. When 1 to 5 is set, toner band is formed until the value of TR-BLT (ITB parts counter) reaches the specified number of sheets. After that, toner band is not formed. When 6 is set, toner band is always formed. Increase the value when white lines appear.	
Use Case	When white lines appear on Bk-color image at 94 mm intervals	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	- If the value is too small, white lines appear. - Be sure to change the value back to the default when replacing the ITB.	
Display/Adj/Set Range	0 to 6 0: OFF, 1: ON up to 100,000 sheets, 2: ON up to 200,000 sheets, 3: ON up to 300,000 sheets, 4: ON up to 400,000 sheets, 5: ON up to 500,000 sheets, 6: Always ON	
Appropriate Target Value	1 - 5	
Default Value	3	
Related Service Mode	COPIER> OPTION> IMG-DEV> ZAB-DENS COPIER> COUNTER> DRBL-1> TR-BLT	
Amount of Change per Unit	100000	

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ZAB-DENS	2	Setting of Bk-toner band density at stop
Detail		To set the density of toner band to be formed on the Photosensitive Drum for Bk-color while drive is stopped. While drive is stopped, the Photosensitive Drum for Bk-color is in contact with the ITB. If the contact state remains, the coating agent of the ITB penetrates to the surface, causing no toner deposit on the contact area of the drum. As the result, white lines appear on Bk-color image at intervals of drum circumference (94 mm). The newer the ITB is, the more likely the component penetrates. Therefore, toner band is formed on the contact area of the drum and the ITB while drive is stopped until the number of sheets set in ZAB-TH is fed. Increase the value when white lines appear. Because toner band becomes darker, white lines can be alleviated, but soiled back of paper with Bk-toner may occur.
Use Case		- When white lines appear on Bk-color image at 94 mm intervals - When soiled back of paper with Bk-color occurs
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Caution		- If the value is too small, white lines appear. If the value is too large, soiled back of paper occurs. - Be sure to change the value back to the default when replacing the ITB.
Display/Adj/Set Range		-13 to 13
Appropriate Target Value		-3 - 3
Default Value		0
Related Service Mode		COPIER> OPTION> IMG-DEV> ZAB-TH COPIER> COUNTER> DRBL-1> TR-BLT
Supplement/Memo		When the value of TR-BLT (ITB parts counter) is larger than the number of sheets specified in ZAB-TH, toner band is not formed so setting result cannot be checked.
Amount of Change per Unit		1
IMG-FEED	1	Setting of coated paper pickup timing
Detail		To set whether to pick up coated paper before or after the start of image formation. Usually, before the start of image formation, a paper is picked up and fed to the position where it is in contact with the Pre-registration Roller and stays there. Set 1 when trace of roller appears on the image on coated paper. Image failure can be alleviated, but productivity is decreased because the 1st sheet of paper is picked up after the start of image formation.
Use Case		When trace of roller appears on the leading edge (76 mm) of coated paper
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		When 1 is set, productivity is decreased.
Display/Adj/Set Range		0 to 1 0: Before the start of image formation, 1: After the start of image formation
Default Value		0

■ IMG-FIX

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FX-S-TMP	1	Set ITOP control temp: plain paper 1
Detail		To set the offset of ITOP control temperature for plain paper 1 (64 to 75 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C.
Use Case		When uneven gloss occurs on the leading edge (94 mm)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C
Unit		deg C
Default Value		0
Amount of Change per Unit		5
TMP-TBL2	1	Set fixing control temp: heavy paper 1
Detail		To set the offset of fixing control temperature for heavy paper 1 (106 to 128 g/m ²). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.
Use Case		When offset/fixing failure occurs on heavy paper 1
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C
Unit		deg C
Default Value		0
Amount of Change per Unit		5
TMP-TBL3	1	Set fixing control temp: heavy paper 2
Detail		To set the offset of fixing control temperature for heavy paper 2 (129 to 150 g/m ²). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.
Use Case		When offset/fixing failure occurs on heavy paper 2
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C
Unit		deg C
Default Value		0
Amount of Change per Unit		5

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TMP-TBL4	1	Set fixing control temp: heavy paper 3
Detail	To set the offset of fixing control temperature for heavy paper 3 (151 to 163 g/m ²). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on heavy paper 3	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
TMP-TBL5	1	Set fixing control temp: thin paper 2
Detail	To set the offset of fixing control temperature for thin paper 2 (52 to 59 g/m ²). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on thin paper 2	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
TMP-TBL6	1	Set fixing control temperature: envelope
Detail	To set the offset of fixing control temperature for envelope. As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on envelope	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
FXS-TMP2	1	Set ITOP control temp: heavy paper 1
Detail	To set the offset of ITOP control temperature for heavy paper 1 (106 to 128 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C.	
Use Case	When uneven gloss occurs on the leading edge (94 mm)	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	

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FXS-TMP3	1	Set ITOP control temp: heavy paper 2
Detail		To set the offset of ITOP control temperature for heavy paper 2 (129 to 150 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C.
Use Case		When uneven gloss occurs on the leading edge (94 mm)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C
Unit		deg C
Default Value		0
Amount of Change per Unit		5
FXS-TMP4	1	Set ITOP control temp: heavy paper 3
Detail		To set the offset of ITOP control temperature for heavy paper 3 (151 to 163 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C.
Use Case		When uneven gloss occurs on the leading edge (94 mm)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C
Unit		deg C
Default Value		0
Amount of Change per Unit		5
FXS-TMP5	1	Set ITOP control temp: thin paper 2
Detail		To set the offset of ITOP control temperature for thin paper 2 (52 to 59 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C.
Use Case		When uneven gloss occurs on the leading edge (94 mm)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C
Unit		deg C
Default Value		0
Amount of Change per Unit		5
FXS-TMP6	1	Set ITOP control temperature: envelope
Detail		To set the offset of ITOP control temperature for envelope. As the value is changed by 1, the control temperature is changed by 5 deg C.
Use Case		When uneven gloss occurs on the leading edge (94 mm)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C
Unit		deg C
Default Value		0
Amount of Change per Unit		5

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FXST2-N2	1	Set ITOP wait time in LL env: plain ppr
Detail	To set initial rotation time when plain paper 1 to 3 is fed with a room temperature of 18 deg C or lower. Increase the value when a fixing failure occurs.	
Use Case	When a fixing failure occurs in an low temperature environment	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 20	
Unit	sec	
Default Value	0	
Amount of Change per Unit	1	
FXST2-UH	1	Set ITOP wait time in LL env: heavy ppr
Detail	To set initial rotation time when heavy paper 1 to 7 is fed with a room temperature of 18 deg C or lower. Increase the value when a fixing failure occurs.	
Use Case	When a fixing failure occurs in an low temperature environment	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 30	
Unit	sec	
Default Value	0	
Amount of Change per Unit	1	
FN-ENTMP	1	Set of Fixing Cooling Fan ON/OFF temp
Detail	To set the ON/OFF temperature of the Fixing Cooling Fan (Front/Rear). Increase the value when a fixing failure occurs on the edge of small size paper, and decrease the value when fixing offset occurs.	
Use Case	When fixing offset/fixing failure occurs on the edge of small size paper	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-4 to 4 -4: -15 deg C, -3: -13 deg C, -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C, 3: +13 deg C, 4: +15 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
FLYING	2	ON/OFF of flying start temperature ctrl
Detail	To set whether to execute flying start temperature control. When 1 is set, flying start temperature control is not performed. Selecting 1 has an advantage over selecting 0 in terms of the life of the Fixing Unit. However, selecting 1 does not always extend the life.	
Use Case	When preferring to extend the life of the Fixing Unit	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	When 1 is set, FCOT becomes longer.	
Display/Adj/Set Range	0 to 1 0: ON, 1: OFF	
Default Value	0	

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TMP-TBL7	1	Set fixing control temp: plain paper 2
Detail	To set the offset of fixing control temperature for plain paper 2 (76 to 90 g/m ²). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on plain paper 2	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
TMP-TBL8	1	Set fixing control temp: transparency
Detail	To set the offset of fixing control temperature for transparency. As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on transparency	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
TMP-TBL9	1	Set fix control temp: 1-side coat ppr 1
Detail	To set the offset of fixing control temperature for 1-sided coated paper 1 (106 to 163 g/m ²). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on 1-sided coated paper 1	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	

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TMP-TB10	1	Set fix control temp: 1-side coat ppr 2
Detail	To set the offset of fixing control temperature for 1-sided coated paper 2 (164 to 220 g/m ²). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on 1-sided coated paper 2	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
FXS-TMP7	1	Set ITOP control temp: plain paper 2
Detail	To set the offset of ITOP control temperature for plain paper 2 (76 to 90 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C.	
Use Case	When uneven gloss occurs on the leading edge (94 mm)	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
FXS-TMP8	1	Set ITOP control temp: transparency
Detail	To set the offset of ITOP control temperature for transparency. As the value is changed by 1, the control temperature is changed by 5 deg C.	
Use Case	When uneven gloss occurs on the leading edge (94 mm)	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
FXS-TM10	1	Set ITOP control temp: 1-side coat ppr 2
Detail	To set the offset of ITOP control temperature for 1-sided coated paper 2 (164 to 220 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C.	
Use Case	When uneven gloss occurs on the leading edge (94 mm)	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	

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FXS-TMP9	1	Set ITOP control temp: 1-side coat ppr 1
Detail	To set the offset of ITOP control temperature for 1-sided coated paper 1 (106 to 163 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C.	
Use Case	When uneven gloss occurs on the leading edge (94 mm)	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
THIN-LP	2	Set of fixing arch amount: thin paper
Detail	To set the arch amount between secondary transfer and fixing when feeding thin paper 1 and 2. Usually, in case of thin paper, fixing arch control is performed to make the arch large. Set 0 when trailing edge is curled. The arch becomes small when feeding thin paper. Set 2 or 3 if paper length (in feed direction) causes the image failure.	
Use Case	When curl on the trailing edge occurs with thin paper	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 3 0: Small arch 1: Large arch 2: Small arch for paper whose length is 220.0 mm or less, large arch for paper whose length exceeds 220.0 mm 3: Large arch for paper whose length is 220.0 mm or less, small arch for paper whose length exceeds 220.0 mm	
Default Value	1	
TMP-TB11	1	Set fixing control temp:recycled paper 1
Detail	To set the offset of fixing control temperature for recycled paper 1 (64 to 75 g/m ²). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on recycled paper 1	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-3 to 2 -3: -15 deg C, -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	

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FXS-TM11	1	Set ITOP control temp: recycled paper 1
Detail		To set the offset of ITOP control temperature for recycled paper 1 (64 to 75 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C. Increase the value when a fixing failure occurs on the leading edge of paper, and decrease the value when uneven gloss occurs on the leading edge (94 mm).
Use Case		- When a fixing failure occurs on the leading edge of paper - When uneven gloss occurs on the leading edge (94 mm)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-3 to 2 -3: -15 deg C, -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C
Unit		deg C
Default Value		0
Amount of Change per Unit		5
PLN-LP	2	Set of fixing arch amount: plain/colored
Detail		To set the arch amount between secondary transfer and fixing when feeding plain paper 1 to 3 and colored paper. Usually, in case of plain paper/colored paper, fixing arch control is performed to make the arch small. Set 1 when an image failure (crepe marks) occurs. The arch becomes large when feeding plain paper/colored paper. Set 2 or 3 if paper length (in feed direction) causes the image failure.
Use Case		When an image failure (crepe marks) occurs with plain paper/colored paper
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 3 0: Small arch 1: Large arch 2: Small arch for paper whose length is 220.0 mm or less, large arch for paper whose length exceeds 220.0 mm 3: Large arch for paper whose length is 220.0 mm or less, small arch for paper whose length exceeds 220.0 mm
Default Value		0
TRC-LP	2	Set of fixing arch amount: tracing paper
Detail		To set the arch amount between secondary transfer and fixing when feeding tracing paper. Usually, in case of tracing paper, fixing arch control is performed to make the arch small. Set 1 when an image failure (crepe marks) occurs. The arch becomes large when feeding tracing paper. Set 2 or 3 if paper length (in feed direction) causes the image failure.
Use Case		When an image failure (crepe marks) occurs with tracing paper
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 3 0: Small arch 1: Large arch 2: Small arch for paper whose length is 220.0 mm or less, large arch for paper whose length exceeds 220.0 mm 3: Large arch for paper whose length is 220.0 mm or less, small arch for paper whose length exceeds 220.0 mm
Default Value		0

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FXS-T001	1	Set ITOP control temp: thin paper 1
Detail		To set the offset of ITOP control temperature for thin paper 1 (60 to 63 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C.
Use Case		When uneven gloss occurs on the leading edge (94 mm)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C
Unit		deg C
Default Value		0
Amount of Change per Unit		5
FXS-T002	1	Set ITOP control temp: plain paper 3
Detail		To set the offset of ITOP control temperature for plain paper 3 (91 to 105 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C.
Use Case		When uneven gloss occurs on the leading edge (94 mm)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C
Unit		deg C
Default Value		0
Amount of Change per Unit		5
FXS-T003	1	Set ITOP control temp: heavy paper 4
Detail		To set the offset of ITOP control temperature for heavy paper 4 (164 to 180 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C.
Use Case		When uneven gloss occurs on the leading edge (94 mm)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C
Unit		deg C
Default Value		0
Amount of Change per Unit		5
FXS-T004	1	Set ITOP control temp: heavy paper 5
Detail		To set the offset of ITOP control temperature for heavy paper 5 (181 to 220 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C.
Use Case		When uneven gloss occurs on the leading edge (94 mm)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C
Unit		deg C
Default Value		0
Amount of Change per Unit		5

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FXS-T005	1	Set ITOP control temp: heavy paper 6
Detail		To set the offset of ITOP control temperature for heavy paper 6 (221 to 256 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C.
Use Case		When uneven gloss occurs on the leading edge (94 mm)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C
Unit		deg C
Default Value		0
Amount of Change per Unit		5
FXS-T006	1	Set ITOP control temp: heavy paper 7
Detail		To set the offset of ITOP control temperature for heavy paper 7 (257 to 300 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C.
Use Case		When uneven gloss occurs on the leading edge (94 mm)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C
Unit		deg C
Default Value		0
Amount of Change per Unit		5
FXS-T007	1	Set ITOP control temp: 1-side coat ppr 3
Detail		To set the offset of ITOP control temperature for 1-sided coated paper 3 (221 to 256 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C.
Use Case		When uneven gloss occurs on the leading edge (94 mm)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C
Unit		deg C
Default Value		0
Amount of Change per Unit		5
FXS-T008	1	Set ITOP control temp: 2-side coat ppr 1
Detail		To set the offset of ITOP control temperature for 2-sided coated paper 1 (106 to 163 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C.
Use Case		When uneven gloss occurs on the leading edge (94 mm)
Adj/Set/Operate Method		1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C
Unit		deg C
Default Value		0
Amount of Change per Unit		5

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FXS-T009	1	Set ITOP control temp: 2-side coat ppr 2
Detail	To set the offset of ITOP control temperature for 2-sided coated paper 2 (164 to 220 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C.	
Use Case	When uneven gloss occurs on the leading edge (94 mm)	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
FXS-T010	1	Set ITOP control temp: 2-side coat ppr 3
Detail	To set the offset of ITOP control temperature for 2-sided coated paper 3 (221 to 256 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C.	
Use Case	When uneven gloss occurs on the leading edge (94 mm)	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
FXS-T012	1	Set ITOP control temp: recycled paper 2
Detail	To set the offset of ITOP control temperature for recycled paper 2 (76 to 90 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C. Increase the value when a fixing failure occurs on the leading edge of paper, and decrease the value when uneven gloss occurs on the leading edge (94 mm).	
Use Case	- When a fixing failure occurs on the leading edge of paper - When uneven gloss occurs on the leading edge (94 mm)	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-3 to 2 -3: -15 deg C, -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	

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FXS-T013	1	Set ITOP control temp: recycled paper 3
Detail	To set the offset of ITOP control temperature for recycled paper 3 (91 to 105 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C. Increase the value when a fixing failure occurs on the leading edge of paper, and decrease the value when uneven gloss occurs on the leading edge (94 mm).	
Use Case	- When a fixing failure occurs on the leading edge of paper - When uneven gloss occurs on the leading edge (94 mm)	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-3 to 2 -3: -15 deg C, -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
TMP-TB01	1	Set fixing control temp: thin paper 1
Detail	To set the offset of fixing control temperature for thin paper 1 (60 to 63 g/m ²). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on thin paper 1	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
TMP-TB02	1	Set fixing control temp: heavy paper 4
Detail	To set the offset of fixing control temperature for heavy paper 4 (164 to 180 g/m ²). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on heavy paper 4	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	

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TMP-TB03	1	Set fixing control temp: heavy paper 5
Detail	To set the offset of fixing control temperature for heavy paper 5 (181 to 220 g/m2). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on heavy paper 5	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
TMP-TB04	1	Set fixing control temp: plain paper 3
Detail	To set the offset of fixing control temperature for plain paper 3 (91 to 105 g/m2). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on plain paper 3	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
TMP-TB05	1	Set fixing control temp: heavy paper 6
Detail	To set the offset of fixing control temperature for heavy paper 6 (221 to 256 g/m2). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on heavy paper 6	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	

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TMP-TB06	1	Set fixing control temp: heavy paper 7
Detail	To set the offset of fixing control temperature for heavy paper 7 (257 to 300 g/m ²). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on heavy paper 7	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
TMP-TB07	1	Set fix control temp: 1-side coat ppr 3
Detail	To set the offset of fixing control temperature for 1-sided coated paper 3 (221 to 256 g/m ²). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on 1-sided coated paper 3	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
TMP-TB08	1	Set fix control temp: 2-side coat ppr 1
Detail	To set the offset of fixing control temperature for 2-sided coated paper 1 (106 to 163 g/m ²). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on 2-sided coated paper 1	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	

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TMP-TB09	1	Set fix control temp: 2-side coat ppr 2
Detail	To set the offset of fixing control temperature for 2-sided coated paper 2 (164 to 220 g/m ²). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on 2-sided coated paper 2	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
TMP-T010	1	Set fix control temp: 2-side coat ppr 3
Detail	To set the offset of fixing control temperature for 2-sided coated paper 3 (221 to 256 g/m ²). As the value is changed by 1, the control temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When a fixing failure/fixing offset occurs on 2-sided coated paper 3	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
TMP-T011	1	Set fixing control temp:recycled paper 2
Detail	To set the offset of fixing control temperature for recycled paper 2 (76 to 90 g/m ²). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on recycled paper 2	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-3 to 2 -3: -15 deg C, -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
TMP-T012	1	Set fixing control temp:recycled paper 3
Detail	To set the offset of fixing control temperature for recycled paper 3 (91 to 105 g/m ²). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When offset/fixing failure occurs on recycled paper 3	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-3 to 2 -3: -15 deg C, -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	

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REC-LP	2	Set of fixing arch amount: recycled
Detail	To set the arch amount between secondary transfer and fixing when feeding recycled paper 1 to 3. Usually, in case of recycled paper, fixing arch control is performed to make the arch small for paper whose length (in feed direction) is 220.0 mm or less, whereas the control is performed to make the arch large for paper whose length exceeds 220.0 mm. Set 1 when an image failure (crepe marks) occurs. The arch becomes large when feeding recycled paper regardless of paper length. Set 0 when trailing edge is curled. The arch becomes small when feeding recycled paper regardless of paper length.	
Use Case	When an image failure (crepe marks)/curl on the trailing edge occurs with recycled paper	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 3 0: Small arch 1: Large arch 2: Small arch for paper whose length is 220.0 mm or less, large arch for paper whose length exceeds 220.0 mm 3: Large arch for paper whose length is 220.0 mm or less, small arch for paper whose length exceeds 220.0 mm	
Default Value	2	

■ CUSTOM

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TEMP-TBL	1	Set fixing control temp: plain paper 1
Detail	To set the offset of fixing control temperature for plain paper 1 (64 to 75 g/m ²). As the value is changed by 1, the temperature is changed by 5 deg C. Increase the value when a fixing failure occurs, and decrease the value when fixing offset occurs.	
Use Case	When a fixing failure/fixing offset occurs on plain paper 1	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	-2 to 2 -2: -10 deg C, -1: -5 deg C, 0: 0 deg C, 1: +5 deg C, 2: +10 deg C	
Unit	deg C	
Default Value	0	
Amount of Change per Unit	5	
SC-L-CNT	1	Set large paper jdgmt reference at scan
Detail	To set the judgment reference of the scan counter as to which to use B4 or LTR to determine large size. The threshold is determined by the combination with the setting of B4-L-CNT. SC-L-CNT=0, B4-L-CNT=0: paper exceeding B4 is determined as large size, paper with B4 or smaller is determined as small size. SC-L-CNT=0, B4-L-CNT=1: paper with B4 or larger is determined as large size, paper smaller than B4 is determined as small size.	
Use Case	As needed	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: B4 size, 1: LTR size	
Default Value	0	
Related Service Mode	COPIER> OPTION> USER> B4-L-CNT	
SCANTYPE	1	[Not used]

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ABK-TOOL	1	Allow access from address book mntc tool
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to accept import from the address book maintenance tool.
Use Case		When executing import from the address book maintenance tool
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Disabled, 1: Enabled
Default Value		0
Supplement/Memo		Address book maintenance tool: Tool provided from CMJ.
DEV-SP1	2	Device special settings 1
Detail		To execute the device special settings 1.
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Use this mode only when specific instructions are given.
Display/Adj/Set Range		00000000 to 11111111
Default Value		00000000
DEV-SP2	2	Device special settings 2
Detail		To execute the device special settings 2.
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Use this mode only when specific instructions are given.
Display/Adj/Set Range		00000000 to 11111111
Default Value		00000000
DEV-SP3	2	Device special settings 3
Detail		To execute the device special settings 3.
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Use this mode only when specific instructions are given.
Display/Adj/Set Range		00000000 to 11111111
Default Value		00000000
DEV-SP4	2	Device special settings 4
Detail		To execute the device special settings 4.
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Use this mode only when specific instructions are given.
Display/Adj/Set Range		00000000 to 11111111
Default Value		00000000
DEV-SP5	2	Device special settings 5
Detail		To execute the device special settings 5.
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Use this mode only when specific instructions are given.
Display/Adj/Set Range		00000000 to 11111111
Default Value		00000000

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DEV-SP6	2	Device special settings 6
Detail	To execute the device special settings 6.	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this mode only when specific instructions are given.	
Display/Adj/Set Range	00000000 to 11111111	
Default Value	00000000	
DEV-SP7	2	Device special settings 7
Detail	To execute the device special settings 7.	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this mode only when specific instructions are given.	
Display/Adj/Set Range	00000000 to 11111111	
Default Value	00000000	
DEV-SP8	2	Device special settings 8
Detail	To execute the device special settings 8.	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this mode only when specific instructions are given.	
Display/Adj/Set Range	00000000 to 11111111	
Default Value	00000000	
USEUPTNR	1	Set Toner Container use-up mode
Detail	To set the maximum number of rotations of the Toner Container to use up toner in the container. When the machine is slanted, it is judged that toner in the Toner Container is empty before actual life. When 2 is set, the Toner Container Motor is driven longer than when setting to 1, so toner in the Toner Container can be used up more.	
Use Case	Upon user's request	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	When high duty image is printed frequently, downtime may occur.	
Display/Adj/Set Range	0 to 2 0: Not used, 1: 20 times, 2: 30 times	
Default Value	1	
DFEJCLED	1	ON/OFF of DADF Original Output Indicator
Detail	To set whether to light up the Original Output Indicator of the DADF.	
Use Case	Upon user's request (The Original Output Indicator is too bright.)	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: ON, 1: OFF	
Default Value	0	
RDEV-SP1	2	RCON device special settings 1
Detail	To execute the device special setting.	
Use Case	For customization	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this mode only when specific instructions are given.	
Display/Adj/Set Range	00000000 to 11111111	
Default Value	0	

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RDEV-SP2	2	RCON device special settings 2
Detail	To execute the device special setting.	
Use Case	For customization	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this mode only when specific instructions are given.	
Display/Adj/Set Range	00000000 to 11111111	
Default Value	0	
RDEV-SP3	2	RCON device special settings 3
Detail	To execute the device special setting.	
Use Case	For customization	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this mode only when specific instructions are given.	
Display/Adj/Set Range	00000000 to 11111111	
Default Value	0	
RDEV-SP4	2	RCON device special settings 4
Detail	To execute the device special setting.	
Use Case	For customization	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this mode only when specific instructions are given.	
Display/Adj/Set Range	00000000 to 11111111	
Default Value	0	
RDEV-SP5	2	RCON device special settings 5
Detail	To execute the device special setting.	
Use Case	For customization	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this mode only when specific instructions are given.	
Display/Adj/Set Range	00000000 to 11111111	
Default Value	0	
RDEV-SP6	2	RCON device special settings 6
Detail	To execute the device special setting.	
Use Case	For customization	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Use this mode only when specific instructions are given.	
Display/Adj/Set Range	00000000 to 11111111	
Default Value	0	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > CUSTOM

RDEV-SP7	2	RCON device special settings 7
Detail		To execute the device special setting.
Use Case		For customization
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Use this mode only when specific instructions are given.
Display/Adj/Set Range		00000000 to 11111111
Default Value		0
RDEV-SP8	2	RCON device special settings 8
Detail		To execute the device special setting.
Use Case		For customization
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Use this mode only when specific instructions are given.
Display/Adj/Set Range		00000000 to 11111111
Default Value		0
PSCL-QS	2	[For customization]
PAP-TYPE	2	[For customization]
TIFFJPEG	2	[For customization]
CPYROT-D	2	[For customization]
Amount of Change per Unit		1
CPYROT-S	2	[For customization]
Amount of Change per Unit		1
PRNROT-D	2	[For customization]
Amount of Change per Unit		1
PRNROT-S	2	[For customization]
Amount of Change per Unit		1
DCM-EXCL	1	[For customization]
F POT-MD	2	[For customization]

■ USER

COPIER (Service mode for printer) > OPTION (Specification setting mode) > USER

COPY-LIM	1	Setting of upper limit for copy
Detail		To set the upper limit value for copy.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		1 to 9999
Default Value		999

COPIER (Service mode for printer) > OPTION (Specification setting mode) > USER

SLEEP	1	Setting of auto sleep function
Detail		To set ON/OFF of auto sleep function.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: OFF, 1: ON
Default Value		1
Additional Functions Mode		Preferences> Timer/Energy Settings> Auto Sleep Time
Supplement/Memo		The time to shift to the sleep mode can be set in Settings/Registration> Preferences> Timer/Energy Settings> Auto Sleep Time.
SIZE-DET	2	ON/OFF of original size detect function
Detail		To set ON/OFF of original size detection function.
Use Case		Upon user's request (The LED is too bright, etc.)
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: OFF, 1: ON
Default Value		1
COUNTER1	1	Display of software counter 1
Detail		To display counter type for software counter 1 on the Counter Check screen.
Use Case		Upon user/dealer's request
Adj/Set/Operate Method		N/A (Display only)
Caution		Display only. No change is available.
Default Value		It differs according to the location.
COUNTER2	1	Setting of software counter 2
Detail		To set counter type for software counter 2 on the Counter Check screen.
Use Case		Upon user/dealer's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 999 0: No registration
Default Value		It differs according to the location.
COUNTER3	1	Setting of software counter 3
Detail		To set counter type for software counter 3 on the Counter Check screen.
Use Case		Upon user/dealer's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 999 0: No registration
Default Value		It differs according to the location.

COPIER (Service mode for printer) > OPTION (Specification setting mode) > USER

COUNTER4	1	Setting of software counter 4
Detail	To set counter type for software counter 4 on the Counter Check screen.	
Use Case	Upon user/dealer's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 999 0: No registration	
Default Value	It differs according to the location.	
COUNTER5	1	Setting of software counter 5
Detail	To set counter type for software counter 5 on the Counter Check screen.	
Use Case	Upon user/dealer's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 999 0: No registration	
Default Value	It differs according to the location.	
COUNTER6	1	Setting of software counter 6
Detail	To set counter type for software counter 6 on the Counter Check screen.	
Use Case	Upon user/dealer's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 999 0: No registration	
Default Value	It differs according to the location.	
DATE-DSP	2	Setting of data/time display format
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set date/time display format according to the country or region. After the display format is set with this mode, the order of date is reflected to the followings: Preferences> Timer/Energy Settings> Date/Time Settings, and report output.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 2 0: YYMM/DD, 1: DD/MMYY, 2: MM/DD/YY	
Default Value	It differs according to the location.	
Additional Functions Mode	Preferences> Timer/Energy Settings> Date/Time Settings	
MB-CCV	2	Control card usage limit for Mail Box
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To restrict use of control card for Mail Box.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Unlimited, 1: Limited	
Default Value	1	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > USER

CONTROL	1	Charge setting of PDL job
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set charge count transmission of PDL job to the connecting charging management device (Coin Manager or non-Canon-made control card).
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: No charge, 1: Charge
Default Value		0
Related Service Mode		COPIER> OPTION> ACC> COIN
B4-L-CNT	1	Count setting of B4 size
Detail		To set B4 count with software counter 1 to 8 as to whether B4 is counted as large size or small size. Selecting 1 counts B4 or larger size paper as large size while paper smaller than B4 size as small size.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Small size, 1: Large size
Default Value		0
Related Service Mode		COPIER> OPTION> CUSTOM> SC-L-CNT
MF-LG-ST	2	ON/OFF of long original mode display
Detail		To set whether to display or hide the [Long Original] button. When 1 is set, [Long Original] button is displayed in Copy> Options screen and the long strip paper becomes available.
Use Case		Upon user's request (use of long strip original or long strip paper)
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Long length paper is delivered from the Second Delivery Outlet (excluding delivery from the Inner Finisher).
Display/Adj/Set Range		0 to 1 0: Hide, 1: Display
Default Value		0
Additional Functions Mode		Copy> Options
Supplement/Memo		Up to 630mm length paper is supported when DADF is used.
CNT-DISP	2	Display/hide of serial No.
Detail		To set whether to display or hide the serial No. on the Counter Check screen.
Use Case		When setting to display/hide serial No. on the Counter Check screen.
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: OFF, 1: ON
Default Value		0

COPIER (Service mode for printer) > OPTION (Specification setting mode) > USER

COPY-JOB	1	Setting of copy job reservation
Detail		To set to enable/disable copy job reservation when the Card Reader/Coin Manager is used.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Enabled, 1: Disabled
Default Value		0
OP-SZ-DT	2	Orgnl size dtct ON/OFF at copyboard open
Detail		To set ON/OFF of original size detection while the Copyboard is opened. When "0: OFF" is set, enter original size manually from the Control Panel. When "1: ON" is set, original size is detected automatically. AB configuration machine: A3/B4/A4R/B5R/A4/B5/A5/B6 Inch configuration machine: 11" x 17"/LGL/LTR/LTRR
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: OFF, 1: ON
Default Value		0
JOB-INVL	2	Job intvl setting at interruption copy
Detail		To set output interval between jobs at the time of interruption copy. Sorting is difficult after interruption copy because of the continuous output of the next job. Paper interval becomes longer when starting pickup for the next job after the last sheet of the previous job is delivered.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 2 0: Continuous output of the interruption copy and the next job 1: Starting pickup for the next job after the interruption copy is delivered all. 2: Starting pickup for the next job after the previous job is delivered all. (For all jobs)
Default Value		0
TAB-ROT	1	Set of landscape img rotn at PDL:tab ppr
Detail		To set whether to rotate landscape image by 180 degrees when PDL print is made on tab paper. When 1 is set, image is rotated.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Not rotated, 1: Rotated
Default Value		0
PR-PSESW	1	ON/OFF Pause All Print Jobs button dspl
Detail		To set whether to display [Pause All Print Jobs] button on the Status Monitor/Cancel screen.
Use Case		- Upon user's request - When preferring to promptly stop the print job in operation or under reservation
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: OFF, 1: ON
Default Value		0

COPIER (Service mode for printer) > OPTION (Specification setting mode) > USER

IDPRN-SW	1	Charge target job set of dept mngm cntr
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the job type that advances the department management counter.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: PRINT category: Inbox Print, Report Print, PDL Print COPY category: COPY 1: PRINT category: Report Print, PDL Print COPY category: COPY, Inbox Print
Default Value		0
PCL-COPY	2	Set of PCL COPIES command control method
Detail		To set the binder control method of COPIES command with PCL. Select whether to use the control method of Canon-made PCL or use the same control method of non-Canon-made PCL.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 65535 0: Control method of Canon-made PCL (following the value of COPIES command that is specified for each page to control on a page basis) 1: Control method of non-Canon-made PCL (handling the value of COPIES command, which is specified for page 1 at the time of Collate mode, as bind figure while the value of COPIES command for the next page or later is invalid. Same control applies as Canon-made PCL at the time of non-sorted mode) 2 to 65535: For future use
Default Value		0
CNT-SW	1	Set default dspl items on charge counter
Detail		To set default display items of the charge counter on the Counter Check screen. For details of each type, refer to the Service Manual.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Type1, 1: Type2
Default Value		0
TAB-ACC	1	ON/OFF of auto cst change for tab ppr
Detail		To set to enable/disable auto cassette change when tab paper runs out.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Be sure to instruct the user to thoroughly comply the following: - Use tab paper with the same number of tabs. - Set tab paper. Be sure to comply the above; otherwise, proper print is not available and it can cause soiling inside the machine because of toner.
Display/Adj/Set Range		0 to 1 0: OFF, 1: ON
Default Value		0

COPIER (Service mode for printer) > OPTION (Specification setting mode) > USER

BCNT-AST	1	Set of box print charge target job
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the job type that advances the count in box print with NE Controller (ASSIST).	
Use Case	When switching the job type that is subject to counting of the box print with NE Controller	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: PDL job, 1: Copy job	
Default Value	0	
PRJOB-CP	2	Set count TX at RX/report print
Detail	To set to enable/disable a page-basis count pulse transmission to the charging management device at the time of reception print or report print.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: No transmission, 1: Transmission	
Default Value	0	
Supplement/Memo	Charging management device: Coin Manager, Non-Canon-made control card	
DFLT-CPY	1	Setting of color mode for copy
Detail	To set the default color mode for copy operation. To reflect the change, it is necessary to initialize the default settings of copy function in one of the following two ways. - Settings/Registration> Function Settings> Copy> Change Default Settings> Initialize - Main Menu> Copy> Logo icon in upper right of the screen> Change Default Settings> Initialize	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Initialize the default settings of copy function.	
Caution	Be sure to initialize the default settings of copy function after change.	
Display/Adj/Set Range	0 to 2 0: Based on Auto/ACS/Printer Driver settings, 1: Color mode, 2: Black mode	
Default Value	It differs according to the location.	
Additional Functions Mode	Function Settings> Copy> Change Default Settings> Initialize Function Settings> Copy> Select Color Settings for Copy> Use Auto (Color/Black & White)	
DFLT-BOX	1	Setting of color mode for Mail Box scan
Detail	To set the default color mode for Mail Box scan operation. To reflect the change, it is necessary to initialize the default settings of scan and store function in the screen displayed by pressing [Scan] in the main menu with one of the following methods. - Settings/Registration> Function Settings> Store/Access Files> Common Settings> Scan and Store Settings/Access Stored Files Settings> Change Default Settings> Initialize - Logo icon in upper right of the screen> Change Default Settings> Initialize	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Initialize the default settings of scan and store function.	
Caution	Be sure to initialize the default settings of scan and store function after change.	
Display/Adj/Set Range	0 to 2 0: Based on Auto/ACS settings, 1: Color mode, 2: Black mode	
Default Value	0	
Additional Functions Mode	Main Menu> Scan and Store> Mail Box> (Box number)> Scan Function Settings> Store/Access Files> Common Settings> Scan and Store Settings/Access Stored Files Settings> Change Default Settings> Initialize	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > USER

DOC-REM	1	Display/hide of original removal message
Detail		To set whether to display or hide the message to remove original when scanning with DADF without opening/closing DADF after scanning with the Copyboard.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Hide, 1: Display
Default Value		0
DPT-ID-7	2	Password entry set at dept ID reg/auth
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to require a password entry at the time of registration/authentication of department ID. With the setting to require entry, entry of 7-digit password is required as well as entry of department ID.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Department ID only, 1: 7-digit (password) entry
Default Value		0
RUI-RJT	2	Connct set at invalid auth from remoteUI
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set to disconnect HTTP port when the machine receives invalid authentication from remote UI 3 times.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Continued connection, 1: Disconnected
Default Value		0
SND-RATE	2	Set compress ratio at SEND high compress
Detail		To set the compression ratio when the data compression ratio for SEND (transmission) is set to "High Rati". As the value is larger, the compression ratio is higher (the file size becomes small).
Use Case		When making the transmission file size smaller
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		As the value is larger, image quality is decreased.
Display/Adj/Set Range		0 to 2 0: Compression ratio 1/16, 1: Compression ratio 1/20, 2: Compression ratio 1/24
Default Value		0
Additional Functions Mode		Function Settings> Send> Common Settings> Data Compression Ratio
FREG-SW	2	For R&D

COPIER (Service mode for printer) > OPTION (Specification setting mode) > USER

IFAX-SZL	2	Set of I-Fax transmission size limit
Detail		To set for restricting data size at the time of I-Fax transmission that does not go through the server. With the setting to restrict the data size, it is to be #830 error in the case of sending data that exceeds the upper limit value. In the case that the data goes through the server, the size of transmission data is always restricted.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Limited, 1: Not limited (Restriction applies when data goes through the server.)
Default Value		1
Additional Functions Mode		Function Settings> Send> E-Mail/I-Fax Settings> Maximum Data Size for Sending
Supplement/Memo		Set the upper limit value for transmission data size in Settings/Registration menu.
IFAX-PGD	2	Set page split TX at IFax Simple mode TX
Detail		To set whether to perform split-data transmission on a page basis in the case that the transmission size in I-Fax Simple mode exceeds the upper limit value.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		In the case to enable split-data transmission, be sure to get approval from the user by explaining the following: - No guarantee for page order on the reception side - There is a possibility of interruption of other received jobs between pages.
Display/Adj/Set Range		0 to 1 0: Disabled, 1: Enabled
Default Value		0
Additional Functions Mode		Function Settings> Send> E-Mail/I-Fax Settings> Maximum Data Size for Sending
Supplement/Memo		Set the upper limit value for transmission data size in Settings/Registration menu.
MEAPSAFE	2	Setting of MEAP safe mode
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set safe mode for MEAP platform. MPSF is displayed on the Control Panel in safe mode. In safe mode, MEAP application is stopped while just the system application, which starts with initial state, is activated. Logs for cause analysis of MEAP failure can be obtained.
Use Case		Perform system recovery processing when MEAP platform fails to be activated due to resource conflict between MEAP applications, service registration or use order.
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Normal mode, 1: Safe mode
Default Value		0
TRAY-FLL	2	[Not used]

COPIER (Service mode for printer) > OPTION (Specification setting mode) > USER

PRNT-POS	2	ON/OFF of all pauses at error job cancel
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to pause the print operation of following jobs when a job is canceled due to an error inside the machine (#037, etc.) except service calls during PDL print.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
AFN-PSWD	2	Setting of Set/Reg menu access limit
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set restriction on accessing Settings/Registration menu by entering password. With the setting to enable this mode, password entry of system administrator is required after pressing Settings/Registration key.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Password is not required, 1: Password is required	
Default Value	0	
PTJAM-RC	2	Auto reprint setting at PDL print jam
Detail	To set to automatically restart printing after jam recovery that occurs with PDL print.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Not automatically reprinted, 1: Automatically reprinted	
Default Value	1	
PDL-NCSW	2	Card mngm setting for PDL print job
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set to make PDL print job to be subject to card management by the Card Reader. With the setting to enable this mode, PDL print is available only when the card ID of the card inserted to the Card Reader matches the department ID.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: PDL print is available with no card inserted. 1: PDL print is available only when the card ID matches the department ID in the case that the card is inserted.	
Default Value	0	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > USER

PS-MODE	2	Setting of compatible mode at PS usage
Detail	To set the image processing at PS print. Set 8 when line width differs depending on the drawing position although the same line width is set.	
Use Case	Use case When right and left ruled lines are different in width	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 65535 0 to 7: Spare 8: Strokeadjustment is enabled. 9 to 65535: Spare	
Default Value	0	
CNCT-RLZ	2	Setting of connection serialize function
Detail	Connection serialize is a function to assure job grouping function of imageWARE Output Manager Select Edition V1.0. The setting to enable this mode can avoid job rearrangement because the machine does not receive job data from other connection until it completes job data reception from the current connection.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
Supplement/Memo	Connection: Connection to be established through network between multiple hosts (PC, etc). Job grouping function: A function of imageWARE Output Manager Select Edition V1.0. This is to prevent job interruption from other PC by group job (sending multiple jobs in 1 session at job transmission).	
COUNTER7	1	Setting of software counter 7
Detail	To set counter type for software counter 7 on the Counter Check screen.	
Use Case	Upon user/dealer's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 999 0: No registration	
Default Value	0	
COUNTER8	1	Setting of software counter 8
Detail	To set counter type for software counter 8 on the Counter Check screen.	
Use Case	Upon user/dealer's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 999 0: No registration	
Default Value	0	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > USER

2C-CT-SW	2	Set of color counter at 2-color mode
Detail	To set whether to use the single color counter or full color counter for count-up in 2-color mode.	
Use Case	When supporting 2-color mode	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Single color counter, 1: Full color counter	
Default Value	It differs according to the location.	
JA-FUNC	2	Display of job archive function ON/OFF
Detail	To display ON/OFF of job archive function. Make the setting with the MEAP program which supports job archiving.	
Use Case	When using the job archive function	
Adj/Set/Operate Method	N/A (Display only)	
Caution	Setting cannot be made with this item.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
JA-JOB	2	Display of job archive target job
Detail	To display the job type subject to job archive. When the job archive function is ON, archive operation is executed when executing the target job. Make the setting with the MEAP program which supports job archiving.	
Use Case	When using the job archive function	
Adj/Set/Operate Method	N/A (Display only)	
Caution	Setting cannot be made with this item.	
Display/Adj/Set Range	0: N/A, 3: Limited to FAX/IFAX, 0xFFFFFFFF: All jobs	
Default Value	0	
Related Service Mode	COPIER> OPTION> USER> JA-FUNC	
JA-RESTR	2	Display of job archive restriction items
Detail	To display restriction items for job archive specification. When the job archive function is ON, follow the setting to execute operation to restrict specification. Make the setting with the MEAP program which supports job archiving.	
Use Case	When using the job archive function	
Adj/Set/Operate Method	N/A (Display only)	
Caution	Setting cannot be made with this item.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON 32 specification restrictions with Bit definition Bit0: Function to obtain image file (0: OFF, 1: ON) Bit1: Function to compose form registration (0: OFF, 1: ON) Bit2: Function to edit document (0: OFF, 1: ON)	
Default Value	0	
Related Service Mode	COPIER> OPTION> USER> JA-FUNC	

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LDAP-SW	1	Retrieval condition set for LDAP server
Detail		To set the condition to search e-mail address, etc. from LDAP server.
Use Case		When specifying condition to search e-mail address, etc. from LDAP server
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 5 0: Includes the next, 1: Not include the next, 2: Equivalent to the next, 3: Not equivalent to the next, 4: Starts with the next, 5: Finishes with the next
Default Value		4
Supplement/Memo		LDAP (Lightweight Directory Access Protocol): Registering LDAP server enables to search e-mail address, etc. from LDAP server and the result can be registered in the Address Book, etc. Registration is available by the following: Set Destination > Register LDAP Server
FROM-OF	1	Deletion of mail sender's address
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to delete the sender's address (From) at the time of e-mail transmission.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Retained, 1: Deleted
Default Value		0
FILE-OF	1	Set file transmission to entered address
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to allow file transmission to a newly entered address. When 1 is set, file transmission is not available by entering the address because "File" is not displayed on the transmission screen. The addresses already registered in the Address Book can be used.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		To restrict addresses for transmission, be sure to manually delete them because the addresses registered in the Address Book can be used.
Display/Adj/Set Range		0 to 1 0: Enabled, 1: Disabled
Default Value		0
MAIL-OF	1	Setting of e-mail TX to entered address
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to allow e-mail transmission to a newly entered address. When 1 is set, e-mail transmission is not available by entering the address because "E-mail" is not displayed on the transmission screen. The addresses already registered in the Address Book can be used.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		To restrict addresses for transmission, be sure to manually delete them because the addresses registered in the Address Book can be used.
Display/Adj/Set Range		0 to 1 0: Allowed, 1: Prohibited
Default Value		0

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IFAX-OF	1	Setting of I-Fax TX to entered address
Detail		* Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to allow I-Fax transmission to a newly entered address. When 1 is set, I-Fax transmission is not available by entering the address because "I-Fax" is not displayed on the transmission screen. The addresses already registered in the Address Book can be used.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		To restrict addresses for transmission, be sure to manually delete them because the addresses registered in the Address Book can be used.
Display/Adj/Set Range		0 to 1 0: Allowed, 1: Prohibited
Default Value		0
LDAP-DEF	1	Initial condtn set of LDAP server search
Detail		To set initial condition for search target attribute that is specified at the time of LDAP server Details search.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 6 0: Name, 1: E-mail, 2: FAX, 3: Organization, 4: Organization unit, 5: No registration 1 (any setting), 6: No registration 2 (any setting)
Default Value		0
Related Service Mode		COPIER> OPTION> USER> LDAP-SW
JA-DPI	2	Display of job archive record resolution
Detail		To display the resolution of images for job archives recorded in jobs other than FAX reception and I-Fax reception, etc. In service mode, display is available, but settings cannot be made. To make the settings, use the MEAP application which supports job archiving.
Use Case		Upon user's request
Adj/Set/Operate Method		N/A (Display only)
Caution		In service mode, display is available, but settings cannot be made. To make the settings, use the MEAP application which supports job archiving.
Display/Adj/Set Range		0 to 3 0: No conversion, 1: 100 x 100 dpi, 2: 200 x 200 dpi, 3: 300 x 300 dpi
Default Value		3
JA-COMPR	2	Dspl job archive record compress ratio
Detail		To display the compression ratio of images for job archives recorded in jobs other than FAX reception and I-Fax reception, etc. In service mode, display is available, but settings cannot be made. To make the settings, use the MEAP application which supports job archiving.
Use Case		Upon user's request
Adj/Set/Operate Method		N/A (Display only)
Caution		In service mode, display is available, but settings cannot be made. To make the settings, use the MEAP application which supports job archiving.
Display/Adj/Set Range		0 to 5 0: No conversion, 1: Compression ratio 1/4, 2: Compression ratio 1/8, 3: Compression ratio 1/16, 4: Compression ratio 1/32, 5: Compression ratio 1/64
Default Value		3

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FREE-DSP	2	ON/OFF of charge disable screen
Detail	To set whether to display or hide the "Use Charge Management" screen for switching between charge and no charge. The hardware switch for switching charge/no charge in the Coin Manager enables the mode in which all the services are available for free (store manager mode) by temporarily canceling the charging system. Even without the hardware switch, the mode can be switched with the software switch when it is set to display the "Use Charge Management" screen in [Settings/Registration].	
Use Case	When enabling all the services to be provided for free by temporarily canceling the charging system	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	0	
Additional Functions Mode	Management Settings> Charge Management> Use Charge Management	
TNRB-SW	2	Display/hide of Toner Container counter
Detail	To set whether to display the Toner Container counter on the Counter Check screen.	
Use Case	When showing the Toner Container counter to the user	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 4 0: Hide, 1: Display (70s only), 2: Not used, 3: Display (70s/180s), 4: Display (60s/70s/180s)	
Default Value	It differs according to the location.	
Supplement/Memo	60s: The number of premature replacements of the Toner Container 70s: The number of installations of a new Toner Container 80s: The number of installations of a new Toner Container + the number of premature replacements 180s: The number of installations of unidentified Toner Container	
JA-FORMT	2	Display of job archive record format
Detail	To display the format of images for job archives recorded in jobs other than FAX reception and IFAX reception, etc. Whether the images processed by Packet JPEG are recorded in Packet JPEG, or converted into Raster JPEG and then recorded is displayed. Make the setting with the MEAP program which supports job archiving.	
Use Case	Upon user's request	
Adj/Set/Operate Method	N/A (Display only)	
Caution	Setting cannot be made with this item.	
Display/Adj/Set Range	0 to 1 0: Packet JPEG, 1: Raster JPEG	
Default Value	0	

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HDCR-DSW	1	ON/OFF of HDD complete deletion display
Detail	To set whether to display "Hard Disk Data Complete Deletion" in [Settings/Registration]. When 1 is set, unneeded data in the hard disk can be deleted completely on the HDD Data Complete Deletion screen.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	1	
Additional Functions Mode	Management Settings> Data Management> HDD Data Complete Deletion> Hard Disk Data Complete Deletion	
BWCL-DSP	2	ON/OFF of color/B&W selection screen
Detail	To set whether to display the color/B&W selection screen to select the default of the color mode.	
Use Case	When displaying the color mode default selection screen	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
USBH-DSP	2	ON/OFF of USB host use display
Detail	To set whether to display "Preferences> External Interface> USB Settings> Use USB Host". By selecting "1: Display", whether to use USB host on USB Settings screen can be selected.	
Use Case	When switching to display or hide "Use USB Host" on USB Settings screen	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	0	
Additional Functions Mode	Preferences> External Interface> USB Settings> Use USB Host	
USBM-DSP	2	ON/OFF USB ex-mem device MEAP driver use
Detail	To set whether to display [Use MEAP Driver for USB Storage Device] in [Settings/Registration]. When 0 is set, the item is not displayed so that the user administrator cannot change the setting.	
Use Case	When not allowing the user administrator to select whether to use the MEAP driver	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	When setting 0, be sure to make the setting after the specified setting is completed.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	1	
Additional Functions Mode	Preferences> External Interface> USB Settings> Use MEAP Driver for USB External Device	

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USBI-DSP	2	ON/OFF USB input device MEAP driver use
Detail	To set whether to display [Use MEAP Driver for USB Input Device] in [Settings/Registration]. When 0 is set, the item is not displayed so that the user administrator cannot change the setting.	
Use Case	When not allowing the user administrator to select whether to use the MEAP driver	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	When setting 0, be sure to make the setting after the specified setting is completed.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	1	
Additional Functions Mode	Preferences> External Interface> USB Settings> Use MEAP Driver for USB Input Device	
CTCHKDSP	1	Display/Hide of counter print
Detail	To set whether to display or hide "Print List" on the Counter Check screen. Model name, model number information, counter check date and counter information can be output as a total count management report.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	1	
USBR-DSP	2	ON/OFF USB infrared devc MEAP driver use
Detail	To set whether to display "Use MEAP Driver for USB Infrared Device" in [Settings/Registration]. When 1 is set, whether to use MEAP driver can be selected on USB Settings screen.	
Use Case	When allowing the user administrator to select whether to use the MEAP driver	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
Additional Functions Mode	Preferences> External Interface> USB Settings> Use MEAP Driver for USB Infrared Device	
POL-SCAN	1	ON/OFF Rights Management Server set dspI
Detail	When "1: Display" is set, the Rights Management Server function screen is displayed. While the Rights Management Server function is a standard feature, it is possible to hide if not necessary.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	It differs according to the location.	

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JA-SBOX	2	Setting of linking with Advanced Box: SAM
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the link with Advanced Box when iW SAM is enabled. When 1 is set, linking with Advanced Box is enabled.
Use Case		When the operation restriction is cleared at the time of iW SAM
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Disabled, 1: Enabled
Default Value		0
JA-DFAX	2	Setting of direct fax transmission: SAM
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the direct fax transmission when iW SAM is enabled. When 1 is set, the direct fax transmission is enabled.
Use Case		When the operation restriction is cleared at the time of iW SAM
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Disabled, 1: Enabled
Default Value		0
JA-REP	2	Setting of TX Report with image: SAM
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the TX Report with image when iW SAM is enabled. When 1 is set, the TX Report with image is enabled.
Use Case		When the operation restriction is cleared at the time of iW SAM
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Disabled, 1: Enabled
Default Value		0
JA-FREP	2	Setting of Fax TX Report with image: SAM
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the Fax TX Report with image when iW SAM is enabled. When 1 is set, the Fax TX Report with image is enabled.
Use Case		When the operation restriction is cleared at the time of iW SAM
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Disabled, 1: Enabled
Default Value		0
JA-BOX	2	Setting of Inbox document operation: SAM
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the operation for Inbox document at the time of iW SAM When 1 is set, the Inbox document can be operated.
Use Case		When the operation restriction is cleared at the time of iW SAM
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Disabled, 1: Enabled
Default Value		0

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JA-FORM	2	Setting of image composition: SAM
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the image composition when iW SAM is enabled. When 1 is set, the image composition is enabled.	
Use Case	When the operation restriction is cleared at the time of iW SAM	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Disabled, 1: Enabled	
Default Value	0	
JA-PREV	2	Setting of preview page deletion: SAM
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether a page is deleted from the scan preview screen at the time of iW SAM When 1 is set, a page is deleted from the scan preview screen.	
Use Case	When the operation restriction is cleared at the time of iW SAM	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Disabled, 1: Enabled	
Default Value	0	
JA-PULL	2	Setting of network scan: SAM
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the network scan when iW SAM is enabled. When 1 is set, the network scan is enabled.	
Use Case	When the operation restriction is cleared at the time of iW SAM	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Disabled, 1: Enabled	
Default Value	0	
JA-PDLB	2	Set of printer driver multi box save: SAM
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether a document can be simultaneously saved to multiple Inboxes from the printer driver at the time of iW SAM. When 1 is set, a document can be saved to multiple Inboxes from the printer driver.	
Use Case	When the operation restriction is cleared at the time of iW SAM	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Disabled, 1: Enabled	
Default Value	0	
JA-JOBK	2	Setting of job merge allowance: SAM
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether merging jobs is allowed when iW SAM is enabled. When 1 is set, jobs can be merged.	
Use Case	When the operation restriction is cleared at the time of iW SAM	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Disabled, 1: Enabled	
Default Value	0	

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JA-JDF	2	Setting of JDF: SAM
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the use of JDF when iW SAM is enabled. When 1 is set, JDF can be used.	
Use Case	When the operation restriction is cleared at the time of iW SAM	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Disabled, 1: Enabled	
Default Value	0	
JA-RUI	2	Setting of Inbox document access: SAM
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the Inbox document access from remote UI at the time of iW SAM When 1 is set, accessing to the Inbox document from remote UI is enabled.	
Use Case	When the operation restriction is cleared at the time of iW SAM	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Disabled, 1: Enabled	
Default Value	0	
JA-WEB	2	Setting of Inbox document upload: SAM
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the Inbox document upload with the Web browser at the time of iW SAM. When 1 is set uploading to the Inbox document with the Web Browser is enabled.	
Use Case	When the operation restriction is cleared at the time of iW SAM	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Disabled, 1: Enabled	
Default Value	0	
EXP-CRYP	1	Confndtial encrypt ON/OFF:add book expprt
Detail	* Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to encrypt the confidential part (password part) in the Address Book when exporting the address book and device settings via remote UI. When 0 is set, the confidential part in the address book is exported without encryption.	
Use Case	When there is a need to export password without encryption because of operation and tool	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Be sure not to allow the user to execute export without encryption because of security concern.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	1	

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SMD-EXPT	1	Setting of export target data: remote UI
Detail	To set whether to export "service mode data" from remote UI. When 1 is set, "service mode data" is displayed as the target data of export on remote UI. When installing more than 1 machine at the same time, the same service mode data can be registered.	
Use Case	When installing more than 1 machine at the same time	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	0	
Supplement/Memo	If selecting "service mode data" as the target data of export on remote UI after setting SMD-EXPT to 1, service mode data can be exported.	
SNDSTREN	1	Set of setting delete aftr scan and send
Detail	To set whether to delete the transmission settings except for the address after transmission from the "Scan and Send" screen.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 5 0: Deleted 1: Retained only the transmission setting 2: Retained the transmission setting and address * 3: Retained only address * 4: Retained the transmission setting and address 5: Retained only address * The setting for Options > Job Done Notice > Attach TX Image is not retained.	
Default Value	It differs according to the location.	
FAXSTREN	1	Set of setting delete aftr fax transmit
Detail	To set whether to delete the transmission settings except for the address after transmission from the "Fax" screen.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 2 0: Delete 1: Retain * 2: Retain * The setting for Options > Job Done Notice > Attach TX Image is not retained.	
Default Value	It differs according to the location.	
SJ-UNMSK	2	ON/OFF secured job masking cancellation
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to mask other people's secured jobs. When 0 is set, operation of other people's secured jobs is not possible because they are masked. When COIN is set to 6 or 7 (charge mode: Type-C), set 1. Masking is canceled and other people's secured jobs can be operated. It is enabled at MEAP authentication.	
Use Case	When operating secured jobs in charge mode Type-C	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF (Masking enabled), 1: ON (Masking canceled)	
Default Value	0	
Related Service Mode	COPIER> OPTION> ACC> COIN	

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SJ-CLMSK	2	ON/OFF secured job stop button display
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to display the button to stop a secured job. When 0 is set, the stop button is displayed. When COIN is set to 6 or 7 (charge mode: Type-C), set 1. Since the stop button is not displayed, the secured job cannot be stopped.	
Use Case	When prohibiting to stop the secured job in charge mode Type-C	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF (Display), 1: ON (Hide)	
Default Value	0	
Related Service Mode	COPIER> OPTION> ACC> COIN	
PRTDP-SW	1	Set delivery side for 1-page job:2-sided
Detail	To set whether to deliver paper face-up or face-down when printing only 1 page although 2-sided print is set. When 0 is set, paper is delivered face-down like 1-sided job. (Paper does not pass through the Duplex Path.) When 1 is set, paper is delivered face-up via the Duplex Path. Paper feed distance becomes longer so productivity is decreased.	
Use Case	When changing the delivery side of 1-page print although 2-sided print is set	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Face-down delivery, 1: Face-up delivery	
Default Value	0	
PDFD-MSW	2	Set output paper size: direct print PDF
Detail	To set output paper size at direct print PDF. Usually, the region defined by MediaBox is output. However, in some cases, the region defined (trimmed) by CropBox is judged as output paper size depending on PDF file. Set 1 when output result differs from what is defined at direct print PDF.	
Use Case	When preferring to output a PDF file with paper which size is defined by CropBox while the sizes of MediaBox and CropBox are different	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: MediaBox (Normal), 1: CropBox	
Default Value	0	
SFT-OUT	2	Setting of offset priority delivery
Detail	To set whether to deliver a job where offset and collate/offset group is set to the delivery destination with offset function. When 0 is set, a job is delivered to the delivery destination set in [Settings/Registration] even though the offset function is not available. When 1 is set, a job is delivered to the delivery destination with offset function even though a delivery destination without offset function is set in [Settings/Registration].	
Use Case	When preferring to deliver a job to the delivery destination with offset function	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Based on Output Tray Settings, 1: Priority on job settings (deliver to a delivery destination where offset is possible)	
Default Value	1	
Additional Functions Mode	Function Settings> Common> Paper Output Settings> Output Tray Settings	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > USER

LGCY-SCP	2	Setting of PPA/secured print switch
Detail	<p>*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to use the PPA function or the conventional secured print function. Set 0 when using the PPA function. The conventional secured print function is disabled. Set 1 when using the conventional secured print function (when the EFI Controller is connected, etc.). The PPA function is disabled. When IMG-CONT is set to 3 or 4 for connecting the EFI Controller, the setting of this item becomes 1. When this item is set to 0, the setting of UI-PPA becomes 1. When this item is set to 1, the setting of UI-PPA becomes 0.</p>	
Use Case	When using the conventional secured print function (when the EFI Controller is connected, etc.)	
Adj/Set/Operate Method	<p>1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.</p>	
Caution	The PPA function cannot be used when the EFI Controller is connected.	
Display/Adj/Set Range	<p>0 to 1 0: Use the PPA function, 1: Use the conventional secured print function</p>	
Default Value	0	
Related Service Mode	<p>COPIER> OPTION> DSPLY-SW> UI-PPA COPIER> OPTION> INT-FACE> IMG-CONT</p>	
Supplement/Memo	PPA (Personal Print Application): A function to hold print job. It contains the function of secured print.	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > USER

FLM-DSPL	2	ON/OFF of Clear Film usage
Detail	To set whether to use the Clear Film. When 1 is set, "Clear Film" is displayed on the paper type screen so it can be registered as the paper to be used.	
Use Case	When using large size transparency or special film	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	- Since the clear film is not defined in the specifications, image quality is not guaranteed even though it can be fed. - After the setting is made, check image quality and get approval from the user. If there is an error, set the value back to 0.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
Additional Functions Mode	Preferences> Paper Settings> Paper Settings> Set > Detailed Settings > Clear Film	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > USER

CNT-PRT	2	ON/OFF of parts counter report output
Detail	To set whether to print parts counter values on the counter report.	
Use Case	When grasping the estimated life of parts while the monitoring service function is not used	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF (Not print), 1: ON (Print)	
Default Value	It differs according to the location.	
Additional Functions Mode	Check Counter> Print List	
JA-WIFI	2	Setting of SAM Wi-Fi direct print
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to allow Wi-Fi direct print when iW SAM is enabled. Wi-Fi direct print cannot be used when iW SAM is enabled. However, when 1 is set, it can be used.	
Use Case	When the operation restriction is cleared at the time of iW SAM	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Disabled, 1: Enabled	
Default Value	0	
JA-1200	2	Job archive img resolution: 1200dpi, PDL
Detail	To display the resolution of images for job archives recorded for 1200 dpi PDL job. Only display is available in service mode. The setting is available only in the MEAP application (iW SAM) which support job archiving.	
Adj/Set/Operate Method	N/A (Display only)	
Caution	Setting cannot be made with this item.	
Display/Adj/Set Range	0 to 1 0: 300 dpi, 1: 1200 dpi	
Default Value	0	
Supplement/Memo	When prioritizing productivity of PDL job, set "1200 dpi" in the MEAP application.	
C-P-SIZE	2	[For customization]
MF-FEED	1	Manual restart w/OK key: no ppr on MP Tr
Detail	If the following three conditions are satisfied, pickup is not restarted automatically when placing paper on the Multi-purpose Tray. 1. The setting of "Preferences> Paper Settings> Multi-Purpose Tray Defaults" is "Fixed". 2. The job type is PDL. 3. The setting value of this service mode is 1. 4. Paper is placed at occurrence of no paper on the Multi-Purpose Tray.	
Use Case	Upon user's request. Use this item for customization for Aeon during application of service mode.	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
Additional Functions Mode	Preferences> Paper Settings> Multi-Purpose Tray Defaults	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > USER

INSTDT-Y	1	Register installation date info: year
Detail		To set the information on the installation date (year).
Use Case		- At installation - When replacing the HDD
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 2038
Default Value		0
Related Service Mode		COPIER>FUNCTION>INSTALL>INSTDTST
INSTDT-M	1	Register installation date info: month
Detail		To set the information on the installation date (month).
Use Case		- At installation - When replacing the HDD
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 12
Default Value		0
Related Service Mode		COPIER>FUNCTION>INSTALL>INSTDTST
INSTDT-D	1	Register installation date info: day
Detail		To set the information on the installation date (day).
Use Case		- At installation - When replacing the HDD
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 31
Default Value		0
Related Service Mode		COPIER>FUNCTION>INSTALL>INSTDTST
INSTDT-H	1	Register installation date info: hour
Detail		To set the information on the installation date (hour).
Use Case		- At installation - When replacing the HDD
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 23
Default Value		0
Related Service Mode		COPIER>FUNCTION>INSTALL>INSTDTST
INSTDT-N	1	Register installation date info: minute
Detail		To set the information on the installation date (minute).
Use Case		- At installation - When replacing the HDD
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 59
Default Value		0
Related Service Mode		COPIER>FUNCTION>INSTALL>INSTDTST

COPIER (Service mode for printer) > OPTION (Specification setting mode) > USER

STOP-USE	1	ON/OFF of Stop key function
Detail		To switch ON and OFF of the Stop key function. When Stop key is pressed, all print jobs are paused.
Use Case		When switching to use/not use Stop key according to the customer
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Be sure to explain to the customer in advance that all print jobs are paused when Stop key is pressed.
Display/Adj/Set Range		0 to 1 0: OFF, 1: ON
Default Value		1
LASTREST	1	Set remaining consumables display specs
Detail		To switch the percentage of increments in which the remaining level of consumables is shown at their near end.
Use Case		When the remaining level of toner or waste toner is suddenly displayed as 0%
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn ON/OFF the Main Power.
Caution		The default value is properly set according to the country and the model, and thus should not be normally changed unless requested.
Display/Adj/Set Range		0 to 1 0: 5%, 1: 1%
Default Value		The value differs according to the location.
Additional Functions Mode		Status Monitor/Cancel > Consmbls./Others > Consumables
SZCHKSW	2	For R&D

■ CST

COPIER (Service mode for printer) > OPTION (Specification setting mode) > CST

CST1-P1	1	Setting of Cst1 paper size (A5R/STMTR)
Detail		To set the paper size (A5R/STMTR) used in the Cassette 1.
Use Case		When setting the paper size for the Cassette 1
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Be sure to match with the hardware setting size.
Display/Adj/Set Range		0 to 1 0: A5R, 1: STMTR
Default Value		It differs according to the location.
Additional Functions Mode		Preferences> Paper Settings> A5R/STMTR Paper Selection
CST2-P1	1	Setting of Cst2 paper size (A5R/STMTR)
Detail		To set the paper size (A5R/STMTR) used in the Cassette 2.
Use Case		When setting the paper size for the Cassette 2
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Be sure to match with the hardware setting size.
Display/Adj/Set Range		0 to 1 0: A5R, 1: STMTR
Default Value		It differs according to the location.
Additional Functions Mode		Preferences> Paper Settings> A5R/STMTR Paper Selection

COPIER (Service mode for printer) > OPTION (Specification setting mode) > CST

CST3-P1	1	Setting of Cst3 paper size (A5R/STMTR)
Detail	To set the paper size (A5R/STMTR) used in the Cassette 3.	
Use Case	When setting the paper size for the Cassette 3	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Be sure to match with the hardware setting size.	
Display/Adj/Set Range	0 to 1 0: A5R, 1: STMTR	
Default Value	It differs according to the location.	
Additional Functions Mode	Preferences> Paper Settings> A5R/STMTR Paper Selection	
CST4-P1	1	Setting of Cst4 paper size (A5R/STMTR)
Detail	To set the paper size (A5R/STMTR) used in the Cassette 4.	
Use Case	When setting the paper size for the Cassette 4	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Be sure to match with the hardware setting size.	
Display/Adj/Set Range	0 to 1 0: A5R, 1: STMTR	
Default Value	It differs according to the location.	
Additional Functions Mode	Preferences> Paper Settings> A5R/STMTR Paper Selection	
CST-K-SW	2	Set of EXEC/16K size support: Cassette 1
Detail	To set whether to support EXEC or 16K size (K-size paper) by the Cassette 1. This setting is enabled only for the location where K-size paper can be selected in the Control Panel menu. For other locations, only EXEC can be set.	
Use Case	Upon user's request	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	When K-size paper cannot be selected in the Control Panel menu, only the setting value 0 can be set.	
Display/Adj/Set Range	0 to 1 0: EXEC, 1: 16K	
Default Value	0	
Supplement/Memo	16K paper: 270 x 195 mm	
C2-K-SW	2	Set of EXEC/16K size support: Cassette 2
Detail	To set whether to support EXEC or 16K size (K-size paper) by the Cassette 2. This setting is enabled only for the location where K-size paper can be selected in the Control Panel menu. For other locations, only EXEC can be set.	
Use Case	Upon user's request	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	When K-size paper cannot be selected in the Control Panel menu, only the setting value 0 can be set.	
Display/Adj/Set Range	0 to 1 0: EXEC, 1: 16K	
Default Value	0	
Supplement/Memo	16K paper: 270 x 195 mm	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > CST

C3-K-SW	2	Set of EXEC/16K size support: Cassette 3
Detail		To set whether to support EXEC or 16K size (K-size paper) by the Cassette 3. This setting is enabled only for the location where K-size paper can be selected in the Control Panel menu. For other locations, only EXEC can be set.
Use Case		Upon user's request
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		When K-size paper cannot be selected in the Control Panel menu, only the setting value 0 can be set.
Display/Adj/Set Range		0 to 1 0: EXEC, 1: 16K
Default Value		0
Supplement/Memo		16K paper: 270 x 195 mm
C4-K-SW	2	Set of EXEC/16K size support: Cassette 4
Detail		To set whether to support EXEC or 16K size (K-size paper) by the Cassette 4. This setting is enabled only for the location where K-size paper can be selected in the Control Panel menu. For other locations, only EXEC can be set.
Use Case		Upon user's request
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		When K-size paper cannot be selected in the Control Panel menu, only the setting value 0 can be set.
Display/Adj/Set Range		0 to 1 0: EXEC, 1: 16K
Default Value		0
Supplement/Memo		16K paper: 270 x 195 mm

■ ACC

COPIER (Service mode for printer) > OPTION (Specification setting mode) > ACC

COIN	1	Setting of charge management
Detail		*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set charge management method.
Use Case		At installation of Coin Manager
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		<ul style="list-style-type: none"> - When setting a value other than 0, "ON" is automatically set to [Delete Job After Printing]. It will not be returned to "OFF" even if the value is changed back to 0 once it has been changed. - Following items are automatically specified when changing the value to 3 (from 0 to 2) when setting 3. The change will not be returned even if changing back the value to 0 to 2 (from 3) once the mode has been changed. - COPIER> OPTION> USER> CONTROL, AFN-PSWD=1 - COPIER> OPTION> NETWORK> DA-CNCT=1 - COPIER> OPTION> DSPLY-SW> UI-BOX, UI-SEND, UI-FAX=0 - Preferences> Network> TCP/IP Settings> IPv4 Settings> IP Address Range Settings> RX/Print Range: Allow IPv4 Address=ON - Preferences> Network> TCP/IP Settings> IPv6 Settings> IP Address Range Settings> RX/Print Range: Allow IPv6 Address=ON - Preferences> Network> TCP/IP Settings> FTP Print Settings> Use FTP Printing=OFF - Preferences> Network> TCP/IP Settings> IPP Print Settings=ON - Preferences> Network> SMB Server Settings> SMB Printer Settings> Use SMB=ON - Function Settings> Send> E-mail/I-Fax Settings> Communication Settings> SMTP Receive, POP=OFF - Following items are automatically specified when changing the value to 4 (from 0 to 2) when setting 4. The change will not be returned even if changing back the value to 0 to 2 (from 4) once the mode has been changed. - COPIER> OPTION> USER> AFN-PSWD=1 - COPIER> OPTION> DSPLY-SW> UI-BOX, UI-SEND, UI-FAX, UI-RSCAN, UI-EPRNT, UI-HOLD=0 - Management Settings> Device Management> Display Log=OFF
Display/Adj/Set Range		0 to 7 0: No charge 1: Charge with Coin Manager 2: Charge with remote counter 3: Charge with DA (only in Japan) 4: Charge with this machine itself 5: New SC mode 6: External charge mode 6 7: External charge mode 7
Default Value		0
Related Service Mode		COPIER> OPTION> USER> CONTROL COPIER> OPTION> DSPLY-SW> UI-BOX, UI-SEND, UI-FAX COPIER> OPTION> ACC> PDL-THR
Additional Functions Mode		Function Settings> Send> E-Mail/I-Fax Settings> Communication Settings Function Settings> Print> Delete Job After Printing Preferences> Network> TCP/IP Settings> DNS Settings> FTP Print Settings, IPP Print Settings
Supplement/Memo		Control card can be used with "No charge". DA: Digital Accessory
DK-P	1	Setting of Paper Deck paper size
Detail		To set the paper size used in the Paper Deck.
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 2 0: A4, 1: LTR, 2: B5
Default Value		0

COPIER (Service mode for printer) > OPTION (Specification setting mode) > ACC

CARD-SW	1	Set screen dsp!: Coin Manager connected
Detail		To set coin or card that the user is prompted to insert on the Control Panel when the Coin Manager is connected. When 1 is set, authentication operation using the Coin Manager is also required.
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 3 0 and 3: Card, 1: Card + authentication, 2: Coin/Card
Default Value		0
STPL-LMT	2	Set number of sheets for saddle stitch
Detail		To set the number of sheets for saddle stitch
Use Case		Upon user's request
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 3 0: 5 sheets without blank band (6 sheets when a cover is included) 1: 10 sheets without blank band (11 sheets when a cover is included) 2: 10 sheets with blank band (11 sheets when a cover is included) 3: 15 sheets with blank band (16 sheets when a cover is included)
Default Value		3
OUT-TRAY	1	Presence/absence of Third Delivery Tray
Detail		To set whether the Third Delivery Tray is installed or not. When it is installed, set 1.
Use Case		When the Third Delivery Tray is installed
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Not installed, 1: Installed
Default Value		0
CC-SPSW	2	Setting of control card I/F support
Detail		To set support level of control card (CCIV/CCV) interface. To keep processing performance of the printer engine, set 1. To correctly stop the output by the upper limit number of sheets, set 2.
Use Case		Upon user's request (when connecting to the external counter management system using the control card interface)
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		When 1 is set, output cannot be correctly stopped by the upper limit number of sheets. When 2 is set, processing performance of the printer engine is decreased depending on pickup location.
Display/Adj/Set Range		0 to 2 0: No support, 1: Priority on speed, 2: Priority on upper limit number of sheets
Default Value		0

COPIER (Service mode for printer) > OPTION (Specification setting mode) > ACC

UNIT-PRC	2	Setting of Coin Manager currency unit
Detail	To set currency unit to be handled with Coin Manager	
Use Case	At installation of Coin Manager	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 6 0: Japanese yen, 1: Euro, 2: Pound, 3: Swiss Franc, 4: Dollar, 5: No currency unit (no fractional unit), 6: No currency unit (with fractional unit)	
Default Value	0	
IN-TRAY	1	Presence/absence of Second Delivery Tray
Detail	To set whether the Second Delivery Tray is installed or not. When it is installed, set 1.	
Use Case	When the Second Delivery Tray is installed	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Not installed, 1: Installed	
Default Value	0	
MIN-PRC	1	Set of Coin Manager minimum price
Detail	To set the minimum amount to be handled with Coin Manager. Enter 10 when specifying 10 Japanese yen as the minimum amount to be handled with the Coin Manager that supports Japanese yen. In the case to specify 1 to 4 (Euro/Pound/Swiss Franc/Dollar) by going through the following: COPIER> OPTION> ACC> UNIT-PRC, entry is in fractional unit. Entry of 50 indicates 50 cents (\$ 0.50).	
Use Case	At installation of Coin Manager	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	This mode is enabled when selecting 4 for the following: COPIER> OPTION> ACC> COIN.	
Display/Adj/Set Range	0 to 9999	
Default Value	10	
Related Service Mode	COPIER> OPTION> ACC> COIN, UNIT-PRC	
Supplement/Memo	When a value smaller than the minimum amount is entered in Settings/Registration menu as the charging amount, it causes an error.	
MAX-PRC	1	Set of Coin Manager maximum price
Detail	To set the maximum amount to be handled with Coin Manager. Enter 8800 when specifying 8800 Japanese yen as the maximum amount to be handled with the Coin Manager that supports Japanese yen.	
Use Case	At installation of Coin Manager	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	This mode is enabled when selecting 4 for the following: COPIER> OPTION> ACC> COIN.	
Display/Adj/Set Range	0 to 9999	
Default Value	8800	
Related Service Mode	COPIER> OPTION> ACC> COIN, UNIT-PRC	
Supplement/Memo	When a value larger than the maximum amount is entered in Settings/Registration menu as the charging amount, it causes an error.	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > ACC

MIC-TUN	1	Manual adj of voice recognize microphone
Detail	To manually adjust the voice receiving level (sensitivity) of the connected voice recognition microphone. Microphone sensitivity is automatically tuned in [Settings/Registration]; however, adjust it manually as needed.	
Use Case	When the sensitivity of microphone is not improved by auto tuning	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 255	
Default Value	128	
Additional Functions Mode	Preferences> Accessibility> Voice Navigation Settings> Tune Microphone	
SRL-SPSW	1	Setting of Serial I/F Kit support
Detail	To set the support level of the Serial Interface Kit. To keep processing performance of printer engine, select "1: Priority on speed". To correctly stop the output by the upper limit number of sheets, select "2: Priority on upper limit number of sheets".	
Use Case	At installation of Serial Interface Kit	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	With priority on speed, output cannot be correctly stopped by the upper limit number of sheets. With priority on the upper limit number of sheets, processing performance of the printer engine is decreased depending on pickup location.	
Display/Adj/Set Range	0 to 2 0: No support, 1: Priority on speed, 2: Priority on upper limit number of sheets	
Default Value	0	
PDL-THR	2	ON/OFF PDL print: external charge mode
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to execute normal PDL print when COIN is set to external charge mode 6/7.	
Use Case	When executing normal PDL print in external charge mode	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
Related Service Mode	COPIER> OPTION> ACC> COIN	
CR-TYPE	1	[Not used]
MEAP-SRL	1	Set to allow serial comctn from MEAP app
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to allow serial communication of MEAP application. When 1 is set, serial communication of the machine is stopped and only the serial communication with MEAP application is available.	
Use Case	When performing serial communication from MEAP application	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Prohibited, 1: Allowed	
Default Value	0	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > ACC

HCC-P	1	Set H-Cpcty Casstt Pedestal paper size
Detail	To set the paper size used in the High Capacity Cassette Pedestal.	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	Be sure to match with the hardware setting size.	
Display/Adj/Set Range	0 to 1 0: A4, 1: LTR	
Default Value	It differs according to the location.	
CV-CSZ	1	Set outpt info notice:chg w/device alone
Detail	To set whether to notify the Coin Manager of color mode and paper size at the time of charging with a device alone.	
Use Case	When Coin Manager (CV3) is connected	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	Set 0 when a coin manager other than CV3 is connected. When 1 is set, an error occurs.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
IMG-RTRY	1	ON/OFF of img form proc for Coin Manager
Detail	To set whether to perform image formation process supporting the connected Coin Manager.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
COIN-AUT	1	ON/OFF of charge/no charge mixed setting
Detail	* Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set whether to switch charge/no charge according to the authentication setting in an environment where both charged and no charged users exist. When this item is set to 1 while the setting value of COIN is 4, the initial screen where the user can select charge/no charge can be set. Selecting "Charge" on the initial screen displays the copy screen, and selecting "No Charge" displays the main menu after authentication.	
Use Case	At installation of Coin Manager	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	When setting 1, be sure to set COIN to 4 in advance. If COIN-AUT is set first, it is necessary to make the settings in the following order again: COIN and then COIN-AUT.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
Related Service Mode	COPIER> OPTION> ACC> COIN COPIER> OPTION> DSPLY-SW> UI-BOX/SEND/FAX	
Additional Functions Mode	Preferences> Display Settings> Default Screen after Startup/Restoration	

■ INT-FACE

COPIER (Service mode for printer) > OPTION (Specification setting mode) > INT-FACE

IMG-CONT	1	Connection setting of print server
Detail	To set connection with print server. When Secure print is set to 3 or 4, Conventional secured print function becomes effective(LGCY-SCP becomes 1). When Conventional secured print function becomes effective, Forced Hold Printing becomes invalid(UI-PPA become 0). If IMG-CONT is changed back from 3 or 4 to 0, LGCY-SCP do not link with each other.	
Use Case	At installation/Removal	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 5 0: Print server not yet connected (normal), 1, 2: Not used, 3: Print server (color machine) connected, 4: Print server (B&W machine) connected, 5: Not used	
Default Value	0	
Related Service Mode	COPIER> OPTION> USER> LGCY-SCP COPIER> OPTION> DSPLY-SW> UI-PPA	
Supplement/Memo	PPA (Personal Print Application): A function to Forced Hold Printing. It contains the function of secured print.	
AP-OPT	2	[Not used]
AP-ACCNT	2	[Not used]
AP-CODE	2	[Not used]
NWCT-TM	2	Timeout setting of network connection
Detail	*Operation on this item is restricted by the setting of [Restrict Service Representation Access]. To set the time to keep network connection between this machine and the PC application (keep-alive setting). As the value is incremented by 1, the time is increased by 1 minute.	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	1 to 5	
Unit	min	
Default Value	5	
Supplement/Memo	Expected PC application: Network print application, E-mail function, cascade copy, MEAP network application, etc.	
Amount of Change per Unit	1	
CNT-TYPE	1	Display of print server ID
Detail	To display the ID of the print server being recognized by the machine.	
Use Case	At installation of print server	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	1 to 999 1: Not yet connected, 400 to 499: EFI print server, 600 to 699: Creo print server, 700 to 799: Oce print server	
Default Value	1	
VTRNS-TO	2	For R&D
Amount of Change per Unit	1	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > INT-FACE

ERRHNDL	2	Set PS Cont-related error recover proc
Detail		To set the recovery process of the host machine and the PS Controller when a PS Controller-related error occurs. When 0 is set, print server error (E677-0080) is displayed on the Control Panel of the host machine. When 1 is set, the host machine automatically executes recovery process. Print server error is not displayed and received jobs are canceled. The PS Controller is automatically rebooted. This setting is enabled only when the PS Controller is connected.
Use Case		Upon user's request (automatic recovery at occurrence of E677-0080)
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Be sure to get approval from the user in advance by telling that jobs received by the host machine are canceled when a PS Controller-related error occurs so missing of jobs or pages may occur.
Display/Adj/Set Range		0 to 9 0: Display the error only 1: Cancel the received jobs and the PS Controller is rebooted 2 to 9: Not used
Default Value		0
Supplement/Memo		Even if 1 is set, E677-0080 is displayed if automatic recovery fails.

■ LCNS-TR

COPIER (Service mode for printer) > OPTION (Specification setting mode) > LCNS-TR

ST-SEND	2	Installation state dspl of SEND function
Detail		To display installation state of SEND function when disabling and then transferring the license.
Use Case		When checking whether SEND function is installed
Adj/Set/Operate Method		1) Select ST-SEND. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-SEND.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-SEND	2	Trns license key dspl of SEND function
Detail		To display transfer license key to use SEND function when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-SEND. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-SEND.
Display/Adj/Set Range		24 digits
ST-ENPDF	2	Install state dspl of Encryption PDF
Detail		To display installation state of Encryption PDF when disabling and then transferring the license.
Use Case		When checking whether Encryption PDF is installed
Adj/Set/Operate Method		1) Select ST-ENPDF. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-ENPDF.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment

COPIER (Service mode for printer) > OPTION (Specification setting mode) > LCNS-TR

TR-ENPDF	2	Trns license key dspl of Encryption PDF
Detail		To display transfer license key to use Encryption PDF when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-ENPDF. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-ENPDF.
Caution		This mode is enabled when SEND function is installed.
Display/Adj/Set Range		24 digits
ST-SPDF	2	Install state dspl of Searchable PDF
Detail		To display installation state of Searchable PDF when disabling and then transferring the license.
Use Case		When checking whether Searchable PDF is installed
Adj/Set/Operate Method		1) Select ST-SPDF. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-SPDF.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-SPDF	2	Trns license key dspl of Searchable PDF
Detail		To display transfer license key to use Searchable PDF when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-SPDF. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-SPDF.
Caution		This mode is enabled when SEND function is installed.
Display/Adj/Set Range		24 digits
ST-EXPDF	2	Instal state of Encry PDF + Searchbl PDF
Detail		To display installation state of Encryption PDF + Searchable PDF when disabling and then transferring the license.
Use Case		When checking whether Encryption PDF + Searchable PDF is installed
Adj/Set/Operate Method		1) Select ST-EXPDF. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-EXPDF.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-EXPDF	2	Trns lcns key of Encry PDF+Searchbl PDF
Detail		To display transfer license key to use Encryption PDF + Searchable PDF when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-EXPDF. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-EXPDF.
Caution		This mode is enabled when SEND function is installed for Japan.
Display/Adj/Set Range		24 digits

COPIER (Service mode for printer) > OPTION (Specification setting mode) > LCNS-TR

ST-PDFDR	2	Install state dspl of Direct Print PDF
Detail		To display installation state of Direct Print PDF when disabling and then transferring the license.
Use Case		When checking whether Direct Print PDF is installed
Adj/Set/Operate Method		1) Select ST-PDFDR. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-PDFDR.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-PDFDR	2	Trns lcns key dspl of Direct Print PDF
Detail		To display transfer license key to use Direct Print PDF when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-PDFDR. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-PDFDR.
Display/Adj/Set Range		24 digits
ST-SCR	2	Install state dspl of Encry Secure Print
Detail		To display installation state of Encrypted Secure Print when disabling and then transferring the license.
Use Case		When checking whether Encrypted Secure Print is installed
Adj/Set/Operate Method		1) Select ST-SCR. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-SCR.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-SCR	2	Trns license key dspl: Encry Secure Pnt
Detail		To display transfer license key to use Encrypted Secure Print when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-SCR. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-SCR.
Caution		This mode is enabled when there is "3DES+USH-H" Board.
Display/Adj/Set Range		24 digits
ST-BRDIM	2	Install state dspl: PCL Barcode Printing
Detail		To display installation state of Barcode Printing for PCL when disabling and then transferring the license.
Use Case		When checking whether Barcode Printing for PCL is installed
Adj/Set/Operate Method		1) Select ST-BRDIM. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-BRDIM.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment

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TR-BRDIM	2	Trns lcns key dspl: PCL Barcode Printing
Detail		To display transfer license key to use Barcode Printing for PCL when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-BRDIM. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-BRDIM.
Display/Adj/Set Range		24 digits
ST-VNC	2	Install state dspl of Remote Oprtr Soft
Detail		To display installation state of Remote Operators Software when disabling and then transferring the license.
Use Case		When checking whether Remote Operators Software is installed
Adj/Set/Operate Method		1) Select ST-VNC. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-VNC.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-VNC	2	Trns lcns dspl of Remote Operators Soft
Detail		To display transfer license key to use Remote Operators Software when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-VNC. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-VNC.
Display/Adj/Set Range		24 digits
ST-WEB	2	Install state dspl: Web Access Software
Detail		To display installation state of Web Access Software when disabling and then transferring the license.
Use Case		When checking whether Web Access Software is installed
Adj/Set/Operate Method		1) Select ST-WEB. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-WEB.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-WEB	2	Trns license key dspl of Web Access Soft
Detail		To display transfer license key to use Web Access Software when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-WEB. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-WEB.
Display/Adj/Set Range		24 digits

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ST-HRPDF	2	Install state dspl of High Compress PDF
Detail		To display installation state of High Compression PDF when disabling and then transferring the license.
Use Case		When checking whether High Compression PDF is installed
Adj/Set/Operate Method		1) Select ST-HRPDF. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-HRPDF.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-HRPDF	2	Trns lcns key dspl of High Compress PDF
Detail		To display transfer license key to use High Compression PDF when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-HRPDF. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-HRPDF.
Display/Adj/Set Range		24 digits
ST-TRSND	2	Install state dspl: Trial SEND function
Detail		To display installation state of Trial SEND function when disabling and then transferring the license.
Use Case		When checking whether Trial SEND function is installed
Adj/Set/Operate Method		1) Select ST-TRSND. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-TRSND.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-TRSND	2	Trns lcns key dspl: Trial SEND function
Detail		To display transfer license key to use Trial SEND function when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-TRSND. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-TRSND.
Display/Adj/Set Range		24 digits
ST-WTMRK	2	Install state dspl of Secure Watermark
Detail		To display installation state of Secure Watermark when disabling and then transferring the license.
Use Case		When checking whether Secure Watermark is installed
Adj/Set/Operate Method		1) Select ST-WTMRK. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-WTMRK.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment

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TR-WTMRK	2	Trns license key dspl: Secure Watermark
Detail		To display transfer license key to use Secure Watermark when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-WTMRK. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-WTMRK.
Display/Adj/Set Range		24 digits
ST-TSPDF	2	Install state dspl of Time Stamp PDF: JP
Detail		To display installation state of Time Stamp PDF (JP only) when disabling and then transferring the license.
Use Case		When checking whether Time Stamp PDF (JP only) is installed
Adj/Set/Operate Method		1) Select ST-TSPDF. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-TSPDF.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-TSPDF	2	Trns lcns key dspl of Time Stamp PDF: JP
Detail		To display transfer license key to use Time Stamp PDF (JP only) when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-TSPDF. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-TSPDF.
Caution		This mode is enabled when SEND function is installed.
Display/Adj/Set Range		24 digits
ST-USPDF	2	Install state dspl of Dgtl User Sign PDF
Detail		To display installation state of Digital User Signature PDF when disabling and then transferring the license.
Use Case		When checking whether Digital User Signature PDF is installed
Adj/Set/Operate Method		1) Select ST-USPDF. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-USPDF.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		0
TR-USPDF	2	Trns lcns key dspl of Dgtl User Sign PDF
Detail		To display transfer license key to use Digital User Signature PDF when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-USPDF. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-USPDF.
Caution		This mode is enabled when SEND function is installed.
Display/Adj/Set Range		24 digits

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ST-DVPDF	2	Install state dspl of Device Sign PDF
Detail		To display installation state of Device Signature PDF when disabling and then transferring the license.
Use Case		When checking whether Device Signature PDF is installed
Adj/Set/Operate Method		1) Select ST-DVPDF. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-DVPDF.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-DVPDF	2	Trns lcns key dspl of Device Sign PDF
Detail		To display transfer license key to use Device Signature PDF when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-DVPDF. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-DVPDF.
Caution		This mode is enabled when SEND function is installed.
Display/Adj/Set Range		24 digits
ST-SCPDF	2	Install state dspl of Trace & Smooth PDF
Detail		To display installation state of Trace & Smooth PDF when disabling and then transferring the license.
Use Case		When checking whether Trace & Smooth PDF is installed
Adj/Set/Operate Method		1) Select ST-SCPDF. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-SCPDF.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-SCPDF	2	Trns lcns key dspl of Trace & Smooth PDF
Detail		To display transfer license key to use Trace & Smooth PDF when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-SCPDF. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-SCPDF.
Caution		This mode is enabled when SEND function is installed.
Display/Adj/Set Range		24 digits
ST-AMS	2	Install state dspl of Access Mngm System
Detail		To display installation state of Access Management System when disabling and then transferring the license.
Use Case		When checking whether Access Management System is installed
Adj/Set/Operate Method		1) Select ST-AMS. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-AMS.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment

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TR-AMS	2	Trns lcns key dspl of Access Mngm System
Detail		To display transfer license key to use Access Management System when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-AMS. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-AMS.
Display/Adj/Set Range		24 digits
ST-ERDS	2	Install state dspl: E-RDS 3rd Pty Expnsn
Detail		To display installation state of E-RDS non-Canon-made extension function when disabling and then transferring the license.
Use Case		When checking whether E-RDS non-Canon-made extension function is installed
Adj/Set/Operate Method		1) Select ST-ERDS. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-ERDS.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
Supplement/Memo		Monitoring service function: A function to send charge counter to the non-Canon-made charge server.
TR-ERDS	2	Trns lcns key dspl: E-RDS 3rd Pty Expnsn
Detail		To display transfer license key to use E-RDS non-Canon-made extension function when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-ERDS. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-ERDS.
Display/Adj/Set Range		24 digits
Supplement/Memo		Monitoring service function: A function to send charge counter to the non-Canon-made charge server.
ST-PS	2	Install state display of PS function
Detail		To display installation state of PS function when disabling and then transferring the license.
Use Case		When checking whether PS function is installed
Adj/Set/Operate Method		1) Select ST-PS. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-PS.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-PS	2	Transfer license key dspl of PS function
Detail		To display transfer license key to use PS function when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-PS. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-PS.
Display/Adj/Set Range		24 digits

COPIER (Service mode for printer) > OPTION (Specification setting mode) > LCNS-TR

ST-PCL	2	Install state display of PCL function
Detail		To display installation state of PCL function when disabling and then transferring the license.
Use Case		When checking whether PCL function is installed
Adj/Set/Operate Method		1) Select ST-PCL. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-PCL.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-PCL	2	Transfer license key dsp: PCL function
Detail		To display transfer license key to use PCL function when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-PCL. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-PCL.
Display/Adj/Set Range		24 digits
ST-PSLI5	2	Install state dsp: PS/LIPS4/LIPS LX: JP
Detail		To display installation state of PS/LIPS4/LIPS LX function (JP only) when disabling and then transferring the license.
Use Case		When checking whether PS/LIPS4/LIPS LX function (JP only) is installed
Adj/Set/Operate Method		1) Select ST-PSLI5. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-PSLI5.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		0
TR-PSLI5	2	Trns lcns key dsp: PS/LIPS4/LIPS LX: JP
Detail		To display transfer license key to use PS/LIPS4/LIPS LX function (JP only) when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-PSLI5. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-PSLI5.
Display/Adj/Set Range		24 digits
ST-LIPS5	2	Install state dsp:LIPS LX/LIPS4 func:JP
Detail		To display installation state of LIPS LX/LIPS4 function (JP only) when disabling and then transferring the license.
Use Case		When checking whether LIPS LX/LIPS4 function (JP only) is installed
Adj/Set/Operate Method		1) Select ST-LIPS5. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-LIPS5.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment

COPIER (Service mode for printer) > OPTION (Specification setting mode) > LCNS-TR

TR-LIPS5	2	Trns lcns key dspl:LIPS LX/LIPS4 func:JP
Detail		To display transfer license key to use LIPS LX/LIPS4 function (JP only) when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-LIPS5. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-LIPS5.
Display/Adj/Set Range		24 digits
ST-LIPS4	2	Install state display of LIPS4 func: JP
Detail		To display installation state of LIPS4 function (JP only) when disabling and then transferring the license.
Use Case		When checking whether LIPS4 function (JP only) is installed
Adj/Set/Operate Method		1) Select ST-LIPS4. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-LIPS4.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-LIPS4	2	Trns license key dspl of LIPS4 func: JP
Detail		To display transfer license key to use LIPS4 function (JP only) when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-LIPS4. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-LIPS4.
Display/Adj/Set Range		24 digits
ST-PSPCL	2	Install state dspl of PS/PCL function
Detail		To display installation state of PS/PCL function when disabling and then transferring the license.
Use Case		When checking whether PS/PCL function is installed
Adj/Set/Operate Method		1) Select ST-PSPCL. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-PSPCL.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-PSPCL	2	Transfer license key dspl of PS/PCL func
Detail		To display transfer license key to use PS/PCL function when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-PSPCL. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-PSPCL.
Display/Adj/Set Range		24 digits

COPIER (Service mode for printer) > OPTION (Specification setting mode) > LCNS-TR

ST-PCLUF	2	Install state dspl: PCL/UFR II function
Detail		To display installation state of PCL/UFR II function when disabling and then transferring the license.
Use Case		When checking whether PCL/UFR II function is installed
Adj/Set/Operate Method		1) Select ST-PCLUF. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-PCLUF.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-PCLUF	2	Trns license key dspl of PCL/UFR II func
Detail		To display transfer license key to use PCL/UFR II function when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-PCLUF. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-PCLUF.
Display/Adj/Set Range		24 digits
ST-PSLIP	2	Install state dspl of PS/LIPS4 func: JP
Detail		To display installation state of PS/LIPS4 function (JP only) when disabling and then transferring the license.
Use Case		When checking whether PS/LIPS4 function (JP only) is installed
Adj/Set/Operate Method		1) Select ST-PSLIP. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-PSLIP.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-PSLIP	2	Trns license key dspl: PS/LIPS4 func:JP
Detail		To display transfer license key to use PS/LIPS4 function (JP only) when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-PSLIP. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-PSLIP.
Display/Adj/Set Range		24 digits
ST-PSPCU	2	Install state dspl of PS/PCL/UFR II func
Detail		To display installation state of PS/PCL/UFR II function when disabling and then transferring the license.
Use Case		When checking whether PS/PCL/UFR II function is installed
Adj/Set/Operate Method		1) Select ST-PSPCU. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-PSPCU.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment

COPIER (Service mode for printer) > OPTION (Specification setting mode) > LCNS-TR

TR-PSPCU	2	Trns lcns key dspl of PS/PCL/UFR II func
Detail		To display transfer license key to use PS/PCL/UFR II function when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-PSPCU. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-PSPCU.
Display/Adj/Set Range		24 digits
ST-LXUFR	2	Install state display of UFR II function
Detail		To display installation state of UFR II function when disabling and then transferring the license.
Use Case		When checking whether UFR II function is installed
Adj/Set/Operate Method		1) Select ST-LXUFR. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-LXUFR.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-LXUFR	2	Trns license key dspl of UFR II function
Detail		To display transfer license key to use UFR II function when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-LXUFR. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-LXUFR.
Display/Adj/Set Range		24 digits
ST-HDCR2	2	Install state dspl:HDD Init All Data/Set
Detail		To display installation state of HDD Initialize All Data/Settings when disabling and then transferring the license.
Use Case		When checking whether HDD Initialize All Data/Settings is installed
Adj/Set/Operate Method		1) Select ST-HDCR2. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-HDCR2.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		0
TR-HDCR2	2	Trns lcns key dspl:HDD Init All Data/Set
Detail		To display transfer license key to use HDD Initialize All Data/Settings when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-HDCR2. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-HDCR2.
Display/Adj/Set Range		24 digits

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ST-JBLK	2	Install state dspl of Document Scan Lock
Detail		To display installation state of Document Scan Lock when disabling and then transferring the license.
Use Case		When checking whether Document Scan Lock is installed
Adj/Set/Operate Method		1) Select ST-JBLK. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-JBLK.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		0
TR-JBLK	2	Trns lcns key dspl of Document Scan Lock
Detail		To display transfer license key to use Document Scan Lock when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-JBLK. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-JBLK.
Display/Adj/Set Range		24 digits
ST-AFAX	2	Installation state display of Remote Fax
Detail		To display installation state of Remote Fax when disabling and then transferring the license.
Use Case		When checking whether Remote Fax is installed
Adj/Set/Operate Method		1) Select ST-AFAX. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-AFAX.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-AFAX	2	Transfer license key dspl of Remote Fax
Detail		To display transfer license key to use Remote Fax when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-AFAX. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-AFAX.
Display/Adj/Set Range		24 digits
ST-REPDF	2	Install state dspl:Reader Extensions PDF
Detail		To display installation state of Reader Extensions PDF when disabling and then transferring the license.
Use Case		When checking whether Reader Extensions PDF is installed
Adj/Set/Operate Method		1) Select ST-REPDF. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-REPDF.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment

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TR-REPDF	2	Trns lcns key dspl:Reader Extensions PDF
Detail		To display transfer license key to use Reader Extensions PDF when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-REPDF. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-REPDF.
Display/Adj/Set Range		24 digits
ST-OOXML	2	Install state display of Office Open XML
Detail		To display installation state of Office Open XML when disabling and then transferring the license.
Use Case		When checking whether Office Open XML is installed
Adj/Set/Operate Method		1) Select ST-OOXML. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-OOXML.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-OOXML	2	Trns lcns key display of Office Open XML
Detail		To display transfer license key to use Office Open XML when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-OOXML. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-OOXML.
Display/Adj/Set Range		24 digits
ST-XPS	2	Install state dspl of Direct Print XPS
Detail		To display installation state of Direct Print XPS when disabling and then transferring the license.
Use Case		When checking whether Direct Print XPS is installed
Adj/Set/Operate Method		1) Select ST-XPS. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-XPS.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-XPS	2	Trns lcns key dspl of Direct Print XPS
Detail		To display transfer license key to use Direct Print XPS when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-XPS. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-XPS.
Display/Adj/Set Range		24 digits

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ST-2600	2	Instal state dspl: IEEE2600.1 scrty func
Detail		To display installation state of the IEEE2600.1 security function when disabling and then transferring the license.
Use Case		When checking whether the IEEE2600.1 security function is installed
Adj/Set/Operate Method		1) Select ST-2600. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-2600.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-2600	2	Trn lcns key dspl: IEEE2600.1 scrty func
Detail		To display transfer license key to use IEEE2600.1 security function when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-2600. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-2600.
Display/Adj/Set Range		24 digits
ST-OPFNT	2	Install state display of PCL Font Set
Detail		To display installation state of PCL Font Set when disabling and then transferring the license.
Use Case		When checking whether PCL Font Set is installed
Adj/Set/Operate Method		1) Select ST-OPFNT. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-OPFNT.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-OPFNT	2	Trns license key display of PCL Font Set
Detail		To display transfer license key to use the PCL Font Set when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-OPFNT. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-OPFNT.
Display/Adj/Set Range		24 digits
ST-NCAPT	2	Install state display of NetCap function
Detail		To display installation state of network packet capture function when disabling and then transferring the license.
Use Case		When checking whether network packet capture function is installed
Adj/Set/Operate Method		1) Select ST-NCAPT. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-NCAPT.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment

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TR-NCAPT	2	Transfer license key dspl of NetCap func
Detail		To display transfer license key to use the network packet capture function when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-NCAPT. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-NCAPT.
Display/Adj/Set Range		24 digits
ST-IPFAX	2	Installation state display of IPFAX
Detail		To display installation state of IPFAX when disabling and then transferring the license.
Use Case		When checking whether IPFAX is installed
Adj/Set/Operate Method		1) Select ST-IPFAX. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-IPFAX.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		0
TR-IPFAX	2	Transfer license key dspl of IPFAX
Detail		To display transfer license key to use IPFAX when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-IPFAX. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-IPFAX.
Display/Adj/Set Range		24 digits
ST-U-RDS	2	Install state display of E-RDS function
Detail		To display installation state of Embedded-RDS function when disabling and then transferring the license.
Use Case		When checking whether Embedded-RDS function is installed
Adj/Set/Operate Method		1) Select ST-U-RDS. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-U-RDS.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
Related Service Mode		COPIER> FUNCTION> INSTALL> E-RDS
TR-U-RDS	2	Trns license key dspl of E-RDS function
Detail		To display transfer license key to use Embedded-RDS function when disabling and then transferring the license.
Use Case		- When replacing the HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-U-RDS. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-U-RDS.
Display/Adj/Set Range		24 digits

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ST-OFIC	2	Install state dspl:MS Office direct func
Detail		To display installation state of MS Office direct function when disabling and then transferring the license.
Use Case		When checking whether MS Office direct function is installed
Adj/Set/Operate Method		1) Select ST-OFIC. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-OFIC.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-OFIC	2	Trns lcns key dspl:MS Office direct func
Detail		To display transfer license key to use MS Office direct function when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-OFIC. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-OFIC.
Display/Adj/Set Range		24 digits
ST-SMLG	2	Install state dspl of picture login func
Detail		To display installation state of picture login function when disabling and then transferring the license.
Use Case		When checking whether picture login function is installed
Adj/Set/Operate Method		1) Select ST-SMLG. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-SMLG.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-SMLG	2	Trns lcns key dspl: picture login func
Detail		To display transfer license key to use picture login function when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-SMLG. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-SMLG.
Display/Adj/Set Range		24 digits
ST-TCFNT	2	Inst state dspl:PCL Asian Font, trad CHI
Detail		To display installation state of PCL Asian Font (traditional Chinese) when disabling and then transfer the license.
Use Case		When checking whether PCL Asian Font (traditional Chinese) is installed
Adj/Set/Operate Method		1) Select ST-TCFNT. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-TCFNT.
Caution		When replacing the HDD, check that "PCL Traditional Chinese Fonts" and "PCL Traditional Chinese Fonts (HKSCS)" are installed with [Font List] in [Settings/Registration].
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
Additional Functions Mode		Function Settings> Printer> Output Report> PCL> Font List

COPIER (Service mode for printer) > OPTION (Specification setting mode) > LCNS-TR

TR-TCFNT	2	Trn lic key dspl:PCL Asian Font,trad CHI
Detail		To display transfer license key to use PCL Asian Font (traditional Chinese) when disabling and then transferring the license.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-TCFNT. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-TCFNT.
Display/Adj/Set Range		24 digits
Additional Functions Mode		Function Settings> Printer> Output Report> PCL> Font List
TR-FRWEB	2	Trn lcns key dspl:Web Access SW,free ver
Detail		To display transfer license key to use the free version of Web Access Software when disabling and then transferring the license of it.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-FRWEB. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-FRWEB.
Display/Adj/Set Range		24 digits
ST-FRWEB	2	Instl state dspl:Web Access SW, free ver
Detail		To display installation state of the free version of Web Access Software when disabling and then transferring the license of it.
Use Case		When checking whether the free version of Web Access Software is installed
Adj/Set/Operate Method		1) Select ST-FRWEB. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-FRWEB.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
ST-HCD	2	Inst state dspl: IEEE2600 Security Kit
Detail		To display installation state of Security Kit for IEEE2600 when disabling and then transferring the license.
Use Case		When checking whether the Security Kit for IEEE2600 is installed
Adj/Set/Operate Method		1) Select ST-HCD. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-HCD.
Display/Adj/Set Range		When operation finished normally: OK!
Default Value		According to the setting at shipment
TR-HCD	2	Trn lcns key dspl: IEEE2600 Security Kit
Detail		To display transfer license key to use the Security Kit for IEEE2600 when disabling and then transferring the license of it.
Use Case		- When replacing HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-HCD. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-HCD.
Display/Adj/Set Range		24 digits

COPIER (Service mode for printer) > OPTION (Specification setting mode) > LCNS-TR

ST-MECWL	2	Inst state dspl: McAfee whitelist func
Detail		To display installation state of McAfee whitelisting function when disabling the function and transferring the license.
Use Case		When checking whether McAfee whitelisting function is installed.
Adj/Set/Operate Method		1) Select ST-MECWL. 2) Enter 0, and then press OK key. When installation has been completed, the transfer license key is displayed under TR-MECWL.
Display/Adj/Set Range		When operation finished normally: OK!
Supplement/Memo		McAfee and the McAfee logo are trademarks or registered trademarks of McAfee, LLC or its subsidiaries in the United States and other countries. All other trademarks and registered trademarks are the property of their respective manufacturers. Copyright(c)2018 McAfee LLC
TR-MECWL	2	Trn lcns key dspl: McAfee whitelist func
Detail		To display transfer license key to use McAfee whitelisting function when disabling and then transferring the license of it.
Use Case		- When replacing the HDD - When replacing the device
Adj/Set/Operate Method		1) Select ST-MECWL. 2) Enter 0, and then press OK key. The transfer license key is displayed under TR-MECWL.
Display/Adj/Set Range		24 digits
Supplement/Memo		McAfee and the McAfee logo are trademarks or registered trademarks of McAfee, LLC or its subsidiaries in the United States and other countries. All other trademarks and registered trademarks are the property of their respective manufacturers. Copyright(c)2018 McAfee LLC

■ CUSTOM2

COPIER (Service mode for printer) > OPTION (Specification setting mode) > CUSTOM2

SP-B01	2	[For customization]
SP-B02	2	[For customization]
SP-B03	2	[For customization]
SP-B04	2	[For customization]
SP-B05	2	[For customization]
SP-B06	2	[For customization]
SP-B07	2	[For customization]
SP-B08	2	[For customization]
SP-B09	2	[For customization]
SP-B10	2	[For customization]
SP-B11	2	[For customization]
SP-B12	2	[For customization]
SP-B13	2	[For customization]
SP-B14	2	[For customization]
SP-B15	2	[For customization]
SP-B16	2	[For customization]
SP-B17	2	[For customization]
SP-B18	2	[For customization]
SP-B19	2	[For customization]
SP-B20	2	[For customization]
SP-B21	2	[For customization]

COPIER (Service mode for printer) > OPTION (Specification setting mode) > CUSTOM2

SP-B22	2	[For customization]
SP-B23	2	[For customization]
SP-B24	2	[For customization]
SP-B25	2	[For customization]
SP-B26	2	[For customization]
SP-B27	2	[For customization]
SP-B28	2	[For customization]
SP-B29	2	[For customization]
SP-B30	2	[For customization]
SP-B31	2	[For customization]
SP-B32	2	[For customization]
SP-B33	2	[For customization]
SP-B34	2	[For customization]
SP-B35	2	[For customization]
SP-B36	2	[For customization]
SP-B37	2	[For customization]
SP-B38	2	[For customization]
SP-B39	2	[For customization]
SP-B40	2	[For customization]
SP-B41	2	[For customization]
SP-B42	2	[For customization]
SP-B43	2	[For customization]
SP-B44	2	[For customization]
SP-B45	2	[For customization]
SP-B46	2	[For customization]
SP-B47	2	[For customization]
SP-B48	2	[For customization]
SP-B49	2	[For customization]
SP-B50	2	[For customization]
SP-B51	2	[For customization]
SP-B52	2	[For customization]
SP-B53	2	[For customization]
SP-B54	2	[For customization]
SP-B55	2	[For customization]
SP-B56	2	[For customization]
SP-B57	2	[For customization]
SP-B58	2	[For customization]
SP-B59	2	[For customization]
SP-B60	2	[For customization]
SP-B61	2	[For customization]
SP-B62	2	[For customization]

COPIER (Service mode for printer) > OPTION (Specification setting mode) > CUSTOM2

SP-B63	2	[For customization]
SP-B64	2	[For customization]
SP-B65	2	[For customization]
SP-B66	2	[For customization]
SP-B67	2	[For customization]
SP-B68	2	[For customization]
SP-B69	2	[For customization]
SP-B70	2	[For customization]
SP-B71	2	[For customization]
SP-B72	2	[For customization]
SP-B73	2	[For customization]
SP-B74	2	[For customization]
SP-B75	2	[For customization]
SP-B76	2	[For customization]
SP-B77	2	[For customization]
SP-B78	2	[For customization]
SP-B79	2	[For customization]
SP-B80	2	[For customization]
SP-V01	2	[For customization]
SP-V02	2	[For customization]
SP-V03	2	[For customization]
SP-V04	2	[For customization]
SP-V05	2	[For customization]
SP-V06	2	[For customization]
SP-V07	2	[For customization]
SP-V08	2	[For customization]
SP-V09	2	[For customization]
SP-V10	2	[For customization]
SP-V11	2	[For customization]
SP-V12	2	[For customization]
SP-V13	2	[For customization]
SP-V14	2	[For customization]
SP-V15	2	[For customization]
SP-V16	2	[For customization]
SP-V17	2	[For customization]
SP-V18	2	[For customization]
SP-V19	2	[For customization]
SP-V20	2	[For customization]
SP-V21	2	[For customization]
SP-V22	2	[For customization]
SP-V23	2	[For customization]

COPIER (Service mode for printer) > OPTION (Specification setting mode) > CUSTOM2

SP-V24	2	[For customization]
SP-V25	2	[For customization]
SP-V26	2	[For customization]
SP-V27	2	[For customization]
SP-V28	2	[For customization]
SP-V29	2	[For customization]
SP-V30	2	[For customization]
SP-V31	2	[For customization]
SP-V32	2	[For customization]
SP-V33	2	[For customization]
SP-V34	2	[For customization]
SP-V35	2	[For customization]
SP-V36	2	[For customization]
SP-V37	2	[For customization]
SP-V38	2	[For customization]
SP-V39	2	[For customization]
SP-V40	2	[For customization]
SP-V41	2	[For customization]
SP-V42	2	[For customization]
SP-V43	2	[For customization]
SP-V44	2	[For customization]
SP-V45	2	[For customization]
SP-V46	2	[For customization]
SP-V47	2	[For customization]
SP-V48	2	[For customization]
SP-V49	2	[For customization]
SP-V50	2	[For customization]
SP-V51	2	[For customization]
SP-V52	2	[For customization]
SP-V53	2	[For customization]
SP-V54	2	[For customization]
SP-V55	2	[For customization]
SP-V56	2	[For customization]
SP-V57	2	[For customization]
SP-V58	2	[For customization]
SP-V59	2	[For customization]
SP-V60	2	[For customization]
SP-V61	2	[For customization]
SP-V62	2	[For customization]
SP-V63	2	[For customization]
SP-V64	2	[For customization]

COPIER (Service mode for printer) > OPTION (Specification setting mode) > CUSTOM2

SP-V65	2	[For customization]
SP-V66	2	[For customization]
SP-V67	2	[For customization]
SP-V68	2	[For customization]
SP-V69	2	[For customization]
SP-V70	2	[For customization]
SP-V71	2	[For customization]
SP-V72	2	[For customization]
SP-V73	2	[For customization]
SP-V74	2	[For customization]
SP-V75	2	[For customization]
SP-V76	2	[For customization]
SP-V77	2	[For customization]
SP-V78	2	[For customization]
SP-V79	2	[For customization]
SP-V80	2	[For customization]

■ PM-PRE-M

COPIER (Service mode for printer) > OPTION (Specification setting mode) > PM-PRE-M

TONER-Y	1	Dspl/hide Toner (Y) preparation warning
Detail	To switch between display/hide the preparation warning on the Control Panel Status Bar.	
Use Case	In the case of displaying the warning when consumables/consumable parts are not automatically delivered	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	The value differs according to the location.	
TONER-M	1	Dspl/hide Toner (M) preparation warning
Detail	To switch between display/hide the preparation warning on the Control Panel Status Bar.	
Use Case	In the case of displaying the warning when consumables/consumable parts are not automatically delivered	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	The value differs according to the location.	
TONER-C	1	Dspl/hide Toner (C) preparation warning
Detail	To switch between display/hide the preparation warning on the Control Panel Status Bar.	
Use Case	In the case of displaying the warning when consumables/consumable parts are not automatically delivered	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	The value differs according to the location.	

COPIER (Service mode for printer) > OPTION (Specification setting mode) > PM-PRE-M

TONER-K	1	Dspl/hide Toner (Bk) preparation warning
Detail		To switch between display/hide the preparation warning on the Control Panel Status Bar.
Use Case		In the case of displaying the warning when consumables/consumable parts are not automatically delivered
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 1 0: Hide, 1: Display
Default Value		The value differs according to the location.
WST-TNR	1	Display/hide Wst Tonr Cont prep warning
Detail		To switch between display/hide the preparation warning on the Control Panel Status Bar.
Use Case		In the case of displaying the warning when consumables/consumable parts are not automatically delivered
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 1 0: Hide, 1: Display
Default Value		The value differs according to the location.

■ PM-U-DSP

COPIER (Service mode for printer) > OPTION (Specification setting mode) > PM-U-DSP

PT-DR-Y	1	For R&D
PT-DR-M	1	For R&D
PT-DR-C	1	For R&D
PT-DRM	1	For R&D
FX-REP	1	For R&D

■ PM-MSG-D

COPIER (Service mode for printer) > OPTION (Specification setting mode) > PM-MSG-D

TONER-Y	1	Set days left before Toner (Y) prep warn
Detail		To set the timing (number of days left) at which the preparation warning will be displayed.
Use Case		When changing the timing (number of days left) at which the preparation warning will be displayed
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		Change the setting in accordance with the instruction of the sales company HQ.
Display/Adj/Set Range		0 to 365
Default Value		The value differs according to the location.
TONER-M	1	Set days left before Toner (M) prep warn
Detail		To set the timing (number of days left) at which the preparation warning will be displayed.
Use Case		When changing the timing (number of days left) at which the preparation warning will be displayed
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		Change the setting in accordance with the instruction of the sales company HQ.
Display/Adj/Set Range		0 to 365
Default Value		The value differs according to the location.

COPIER (Service mode for printer) > OPTION (Specification setting mode) > PM-MSG-D

TONER-C	1	Set days left before Toner (C) prep warn
Detail		To set the timing (number of days left) at which the preparation warning will be displayed.
Use Case		When changing the timing (number of days left) at which the preparation warning will be displayed
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		Change the setting in accordance with the instruction of the sales company HQ.
Display/Adj/Set Range		0 to 365
Default Value		The value differs according to the location.
TONER-K	1	Set days left before Toner(Bk) prep warn
Detail		To set the timing (number of days left) at which the preparation warning will be displayed.
Use Case		When changing the timing (number of days left) at which the preparation warning will be displayed
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		Change the setting in accordance with the instruction of the sales company HQ.
Display/Adj/Set Range		0 to 365
Default Value		The value differs according to the location.
WST-TNR	1	Set days left bef Wst Tnr Cont prep warn
Detail		To set the timing (number of days left) at which the preparation warning will be displayed.
Use Case		When changing the timing (number of days left) at which the preparation warning will be displayed
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		Change the setting in accordance with the instruction of the sales company HQ.
Display/Adj/Set Range		0 to 365
Default Value		The value differs according to the location.

■ PM-DLV-D

COPIER (Service mode for printer) > OPTION (Specification setting mode) > PM-DLV-D

TONER-Y	1	Set Toner (Y) prior alarm notice timing
Detail		To set the number of days left before the prior notification alarm will be notified.
Use Case		When changing the timing to notify the prior notification alarm
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		-1 to 365 -1: The alarm not issued
Default Value		It differs according to the location.
TONER-M	1	Set Toner (M) prior alarm notice timing
Detail		To set the number of days left before the prior notification alarm will be notified.
Use Case		When changing the timing to notify the prior notification alarm
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		-1 to 365 -1: The alarm not issued
Default Value		It differs according to the location.
TONER-C	1	Set Toner (C) prior alarm notice timing
Detail		To set the number of days left before the prior notification alarm will be notified.
Use Case		When changing the timing to notify the prior notification alarm
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		-1 to 365 -1: The alarm not issued
Default Value		It differs according to the location.

COPIER (Service mode for printer) > OPTION (Specification setting mode) > PM-DLV-D

TONER-K	1	Set Toner (Bk) prior alarm notice timing
Detail	To set the number of days left before the prior notification alarm will be notified.	
Use Case	When changing the timing to notify the prior notification alarm	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	-1 to 365 -1: The alarm not issued	
Default Value	It differs according to the location.	
WST-TNR	1	Set Wst Tonr Cont prior alarm notice tmng
Detail	To set the number of days left before the prior notification alarm will be notified.	
Use Case	When changing the timing to notify the prior notification alarm	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	-1 to 365 -1: The alarm not issued	
Default Value	It differs according to the location.	
PT-DR-Y	1	Set Drum-U (Y) prior alarm notice timing
Detail	To set the number of days left before the prior notification alarm will be notified.	
Use Case	When changing the timing to notify the prior notification alarm	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	-1 to 365 -1: The alarm not issued	
Default Value	It differs according to the location.	
PT-DR-M	1	Set Drum-U (M) prior alarm notice timing
Detail	To set the number of days left before the prior notification alarm will be notified.	
Use Case	When changing the timing to notify the prior notification alarm	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	-1 to 365 -1: The alarm not issued	
Default Value	It differs according to the location.	
PT-DR-C	1	Set Drum-U (C) prior alarm notice timing
Detail	To set the number of days left before the prior notification alarm will be notified.	
Use Case	When changing the timing to notify the prior notification alarm	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	-1 to 365 -1: The alarm not issued	
Default Value	It differs according to the location.	
PT-DRM	1	Set Drum-U(Bk) prior alarm notice timing
Detail	To set the number of days left before the prior notification alarm will be notified.	
Use Case	When changing the timing to notify the prior notification alarm	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	-1 to 365 -1: The alarm not issued	
Default Value	It differs according to the location.	
DV-UNT-Y	1	For R&D
DV-UNT-M	1	For R&D
DV-UNT-C	1	For R&D
DV-UNT-K	1	For R&D
TR-BLT	1	For R&D

COPIER (Service mode for printer) > OPTION (Specification setting mode) > PM-DLV-D

TR-ROLK	1	For R&D
TR-ROLC	1	For R&D
2TR-ROLL	1	For R&D
2TR-INRL	1	For R&D
T-CLN-BD	1	For R&D
T/S-UNIT	1	For R&D
FX-UP-FR	1	For R&D
FX-LW-BR	1	For R&D
FX-LW-RL	1	For R&D
FX-LW-GR	1	For R&D
C1-PU-RL	1	For R&D
C1-FD-RL	1	For R&D
C1-SP-RL	1	For R&D
C2-PU-RL	1	For R&D
C2-FD-RL	1	For R&D
C2-SP-RL	1	For R&D
C3-PU-RL	1	For R&D
C3-SP-RL	1	For R&D
C3-FD-RL	1	For R&D
C4-PU-RL	1	For R&D
C4-FD-RL	1	For R&D
C4-SP-RL	1	For R&D
M-PU-RL	1	For R&D
M-FD-RL	1	For R&D
M-SP-RL	1	For R&D
TN-FIL1	1	For R&D
DF-PU-RL	1	For R&D
DF-FD-RL	1	For R&D
DF-SP-RL	1	For R&D
DF-PR-PD	1	For R&D
HCCFD-RL	1	For R&D
HCCPU-RL	1	For R&D
HCCSP-RL	1	For R&D

TEST (Print test mode)

■ PG

COPIER (Service mode for printer) > TEST (Print test mode) > PG

TYPE	1	Test print
Detail		To execute the test print.
Use Case		At problem analysis
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Press Start key. Test print is executed.
Caution		Be sure to set the value back to 0 after the test print output.
Display/Adj/Set Range		0 to 100 0: Image from CCD (normal print) 1 to 3: For R&D use 4: 16 gradations 5: Whole-area halftone image 6: Grid 7 to 9: For R&D use 10: MCYBk horizontal stripes 11: For R&D use 12: YMCBk 64 gradations 13: For R&D use 14: Full color 16 gradations 15 to 100: For R&D use
Default Value		0
TXPH	1	Setting of test print image mode
Detail		To set the image mode at the time of test print output. This mode is enabled for test print only.
Use Case		At problem analysis
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 9 0: 600 dpi error diffusion (no trailing edge correction of Bk), 1: "Gradation" screen (no trailing edge correction of Bk), 2: "Resolution" screen (no trailing edge correction of Bk), 3 to 4: None, 5: 600 dpi error diffusion (with trailing edge correction of Bk), 6: "Resolution" screen (with trailing edge correction of Bk), 7: 1200 dpi error diffusion (no trailing edge correction of Bk), 8: 1200 dpi error diffusion (with trailing edge correction of Bk), 9: "Gradation" screen (with trailing edge correction of Bk)
Default Value		0
THRU	1	Set image correct table use: test print
Detail		To set whether to use the image correction table at the time of test print output.
Use Case		At problem analysis
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 2 0: "Auto Adjust Gradation": ON, "Auto Correct Full Color": OFF 1: "Auto Adjust Gradation": OFF, "Auto Correct Full Color": OFF 2: "Auto Adjust Gradation": ON, "Auto Correct Full Color": ON
Default Value		0

COPIER (Service mode for printer) > TEST (Print test mode) > PG

DENS-Y	1	Adj of Y-color density at test print
Detail	To adjust Y-color density when performing test print (TYPE = 5). As the value is larger, the image gets darker.	
Use Case	At test print (TYPE = 5)	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 255	
Default Value	128	
DENS-M	1	Adj of M-color density at test print
Detail	To adjust M-color density when performing test print (TYPE = 5). As the value is larger, the image gets darker.	
Use Case	At test print (TYPE = 5)	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 255	
Default Value	128	
DENS-C	1	Adj of C-color density at test print
Detail	To adjust C-color density when performing test print (TYPE = 5). As the value is larger, the image gets darker.	
Use Case	At test print (TYPE = 5)	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 255	
Default Value	128	
DENS-K	1	Adj of Bk-color density at test print
Detail	To adjust Bk-color density when performing test print (TYPE = 5). As the value is larger, the image gets darker.	
Use Case	At test print (TYPE = 5)	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 255	
Default Value	128	
COLOR-Y	1	Setting of Y-color output at test print
Detail	To set whether to output Y-color at the time of test print. The setting is applied to all types. When setting COLOR-Y to 1 and COLOR-M/C/K to 0, a single Y-color is output.	
Use Case	At test print	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: Not output, 1: Output	
Default Value	1	
Related Service Mode	COPIER> TEST> PG> COLOR-M/C/K	
COLOR-M	1	Setting of M-color output at test print
Detail	To set whether to output M-color at the time of test print. The setting is applied to all types. When setting COLOR-M to 1 and COLOR-Y/C/K to 0, a single M-color is output.	
Use Case	At test print	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: Not output, 1: Output	
Default Value	1	
Related Service Mode	COPIER> TEST> PG> COLOR-Y/C/K	

COPIER (Service mode for printer) > TEST (Print test mode) > PG

COLOR-C	1	Setting of C-color output at test print
Detail	To set whether to output C-color at the time of test print. The setting is applied to all types. When setting COLOR-C to 1 and COLOR-Y/M/K to 0, a single C-color is output.	
Use Case	At test print	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: Not output, 1: Output	
Default Value	1	
Related Service Mode	COPIER> TEST> PG> COLOR-Y/M/K	
COLOR-K	1	Setting of Bk-color output at test print
Detail	To set whether to output Bk-color at the time of test print. The setting is applied to all types. When setting COLOR-K to 1 and COLOR-Y/M/C to 0, a single Bk-color is output.	
Use Case	At test print	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: Not output, 1: Output	
Default Value	1	
Related Service Mode	COPIER> TEST> PG> COLOR-Y/M/C	
F/M-SW	1	Setting of PG full color/single color
Detail	To set whether to output PG in full color or single color.	
Use Case	When identifying the cause whether it's due to full color or single color	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: Full color, 1: Single color	
Default Value	0	
PG-PICK	1	Setting of test print paper source
Detail	To set the paper source at the time of test print output.	
Use Case	- When outputting a test print - At problem analysis	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	1 to 8 1: Cassette 1, 2: Cassette 2, 3: Cassette 3, 4: Cassette 4, 5: Multi-purpose Tray, 6: Paper Deck, 7 to 8: Not used	
Default Value	0	
2-SIDE	1	Setting of PG 2-sided mode
Detail	To set 1-sided/2-sided print for PG output.	
Use Case	At trouble analysis	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: 1-sided, 1: 2-sided	
Default Value	0	

COPIER (Service mode for printer) > TEST (Print test mode) > PG

PG-QTY	1	Setting of PG output quantity
	Detail	To set the number of sheets for PG output.
	Use Case	At trouble analysis
	Adj/Set/Operate Method	Enter the setting value, and then press OK key.
	Display/Adj/Set Range	1 to 999
	Unit	sheet
	Default Value	1
	Amount of Change per Unit	1
FINISH	1	Accessory processing function test print
	Detail	To execute the test print relating to accessory processing function.
	Use Case	When checking operation of accessory processing function
	Adj/Set/Operate Method	1) Enter the number of sheets for PG-QTY, and then press OK key. 2) Enter the setting value, and then press OK key. 3) Press Start button. The machine outputs a test print.
	Display/Adj/Set Range	0 to 99 0: N/A 1: Staple (Finisher, front) 2: Staple (Finisher, 2 points) 3: Staple (Finisher, rear) 4: Booklet (saddle stitch) 5: Z-fold (Finisher) 8: Saddle fold (Finisher) 11: Punch (Inner Puncher) 16: Staple free stapling (Finisher) Any values other than those mentioned above: Not used
	Default Value	0
	Related Service Mode	COPIER> TEST> PG> PG-QTY

■ NETWORK

COPIER (Service mode for printer) > TEST (Print test mode) > NETWORK

PING	1	Network connection check
Detail		To check connection between this machine and TCP/IP network.
Use Case		- When checking network connection at the time of installation - At network connection failure
Adj/Set/Operate Method		1) Turn OFF the main power switch. 2) Connect the network cable to this machine, and then turn ON the main power switch. 3) Inform the system administrator at user's site that installation of this machine is complete, and ask for network setting. 4) Ask the system administrator to check the network connection, and check the remote host address of PING transmission target. 5) Select the item and enter the remote host address, and then press OK key and Start key. OK: Connection is normal. Checking procedure is complete. NG: Connection failed. Go to step 6) if the cable connection is OK. In case of cable connection failure, connect again and then go to step 5). 6) Select the item and enter loopback address, and then press OK key and Start key. OK: TCP/IP setting of this machine is normal. Go to step 7) to check NIC. NG: TCP/IP setting of this machine has failure. Go to step 3) to check the setting again. 7) Select the item and enter the local host address, and then press OK key. OK: Network setting of this machine and NIC are normal. Inform the system administrator that the trouble is due to network environment and ask for countermeasure. NG: Connection failure/fault with NIC. Check connection of NIC/ replace NIC.
Display/Adj/Set Range		0.0.0.0 to 255.255.255.255 At normal state: OK, At failure occurrence: NG
Supplement/Memo		- Remote host address: IP address of PC terminal in network. - Loopback address: 127.0.0.1. Checking TCP/IP of this machine is available because the signal is returned before NIC. - NIC: Network interface - Local host address: IP address of this machine
BML-DISP	2	Set System Monitor scrn: BMLinks support
Detail		To set whether to display only the device configuration in the System Monitor screen when supporting BMLinks. When the setting is switched, the job status and logs are not displayed.
Use Case		When supporting BMLinks
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 1 0: Ordinary System Monitor screen, 1: Screen in which only the device configuration is displayed
Default Value		0
IPV6-ADR	1	Setting of PING send address (IPv6)
Detail		To set the IPv6 address to send PING. When PING is sent to this address by COPIER> TEST> NETWORK> PING-IP6, the network connection condition in the IPv6 environment can be checked.
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		- Enter a consistent character string as an address of IPv6. - Enter an address within 39 characters including hexadecimal numbers (0-9, a-f) and a separator (:).
Related Service Mode		COPIER> TEST> NETWORK> PING-IP6
PING-IP6	1	PING transmission to IPv6 address
Detail		To send PING to the address specified by IPV6-ADR. The network connection condition in the IPv6 environment can be checked.
Adj/Set/Operate Method		Select the item, and then press OK key.
Related Service Mode		COPIER> TEST> NETWORK> IPV6-ADR

■ NET-CAP

COPIER (Service mode for printer) > TEST (Print test mode) > NET-CAP

CAPOFFON	2	ON/OFF of NetCap function
Detail	To set ON/OFF of network packet capture function.	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
Related Service Mode	COPIER> TEST> NET-CAP	
Additional Functions Mode	Store Network Packet Log	
STT-STP	2	Start and stop of network packet capture
Detail	To start and stop network packet capture.	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: Stop, 1: Start	
Default Value	0	
Related Service Mode	COPIER> TEST> NET-CAP	
Additional Functions Mode	Store Network Packet Log	
CAPSTATE	2	State display of network packet capture
Detail	To display the state of network packet capture.	
Adj/Set/Operate Method	N/A (Display only)	
Related Service Mode	COPIER> TEST> NET-CAP	
Additional Functions Mode	Store Network Packet Log	
PONSTART	2	Set network packet capture start timing
Detail	To set whether to perform network packet capture from power-on.	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
Related Service Mode	COPIER> TEST> NET-CAP	
Additional Functions Mode	Store Network Packet Log	
OVERWRIT	2	Setting of NetCap data overwriting
Detail	To set whether to finish network capturing or overwrite when HDD becomes full.	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: No overwriting (finish network packet capture), 1: Overwriting	
Default Value	1	
Related Service Mode	COPIER> TEST> NET-CAP	
Additional Functions Mode	Store Network Packet Log	

COPIER (Service mode for printer) > TEST (Print test mode) > NET-CAP

PAYLOAD	2	Set network packet capture data save
Detail		To set whether to discard payload when saving the captured packet data.
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		0 to 1 0: Save captured packet data as is, 1: Discard payload and save the packet data
Default Value		0
Related Service Mode		COPIER> TEST> NET-CAP
Additional Functions Mode		Store Network Packet Log
FILE-CLR	2	Deletion of network packet capture data
Detail		To delete the captured packet data.
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
SIMPFILT	2	For R&D
ENCDATA	2	Setting of packet data encryption
Detail		To set whether to encrypt the packet data when writing the captured packet data to the USB flash drive.
Use Case		- At problem analysis (at packet data analysis) - When improving security of written packet data
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		This setting is enabled only when writing data to the USB flash drive. Even when the packet data is loaded using SST, the file is specified, therefore the setting is disabled.
Display/Adj/Set Range		0 to 2 0: Encrypted (encrypted file) 1: Not encrypted (plain text file) 2: Encrypted (encrypted file + plain text file)
Default Value		0
CAPIF	2	Setting of network packet capture target
Detail		To set the network interface to capture the packet data. Make this setting before starting network packet capture.
Use Case		When changing the target of network packet capture
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		1 to 6 1: Local loopback, 2: Wired LAN, 3: Wireless LAN, 4: Wireless Soft AP mode, 5: Wi-Fi direct 6: Wired LAN (Sub-Line)
Default Value		2
Related Service Mode		COPIER> TEST> NET-CAP

■ P-STOP

COPIER (Service mode for printer) > TEST (Print test mode) > P-STOP

PRINTER	1	Forcible stop of paper feed
Detail		To forcibly stop paper for the next job at the specified position (only once). Leading edge of paper stops at the specified position so that the cause of a problem can be identified. Set 99 when checking an image on the ITB. When the operation is stopped forcibly, jam code "AAxx" is displayed. When a normal jam occurs at a position other than the specified position or paper is delivered without being forcibly stopped, this setting is automatically cleared.
Use Case		- When bent paper/skew/wrinkles occur - When jam occurs frequently - When checking an image on the ITB
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Execute a job (copy/test print). Paper stops at the specified position.
Caution		- Remove the paper being stopped with the normal jam removal procedure. After jam removal, the job is automatically recovered. - Display of standard jam code indicates that a jam occurs somewhere other than the specified position. - The setting is disabled for job where paper does not pass through the specified position. - Unfixed toner may be adhered on paper depending on the stop position. Thus, handle it with care.
Display/Adj/Set Range		0 to 255 0: OFF 1: Outlet of the Cassette Pickup Assembly 20: Registration Roller, 21: Registration Roller (2nd side) 30: Inlet of the Fixing Assembly, 31: Inlet of the Fixing Assembly (2nd side) 32: Outlet of the Fixing Assembly, 33: Outlet of the Fixing Assembly (2nd side) 40: Outlet of the First Delivery *1 42: Outlet of the Second Delivery *1 70: Reverse Mouth *2 71: Duplex standby position *2 99: Inlet of the Fixing Assembly (1st side, for checking image) Any value other than those mentioned above: Not used *1: Paper may not be stopped depending on the delivery destination setting. *2: Paper is stopped after being reversed for a 2-sided job.
Default Value		0

COUNTER (Counter mode)

■ TOTAL

COPIER (Service mode for printer) > COUNTER (Counter mode) > TOTAL

SERVICE1	1	Service-purposed total counter 1
Detail		To count up when the printout is delivered outside the machine. Large size: 1, Small size: 1 A blank sheet is not counted.
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 99999999
Default Value		0

COPIER (Service mode for printer) > COUNTER (Counter mode) > TOTAL

SERVICE2	1	Service-purposed total counter 2
Detail		To count up when the printout is delivered outside the machine. Large size: 2, Small size: 1 A blank sheet is not counted.
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 99999999
Default Value		0
COPY	1	Total copy counter
Detail		To count up when the printout is delivered outside the machine. Large size: 1, Small size: 1 A blank sheet is not counted.
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 99999999
Default Value		0
PDL-PRT	1	PDL print counter
Detail		To count up when the printout is delivered outside the machine according to the charge counter at PDL print. Large size: 1, Small size: 1 A blank sheet is not counted.
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 99999999
Default Value		0
FAX-PRT	1	FAX reception print counter
Detail		To count up when the printout is delivered outside the machine according to the charge counter at FAX reception. Large size: 1, Small size: 1 A blank sheet is not counted.
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 99999999
Default Value		0
BOX-PRT	1	Inbox print counter
Detail		To count up when the printout is delivered outside the machine according to the charge counter at Inbox print. Large size: 1, Small size: 1 A blank sheet is not counted.
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 99999999
Default Value		0
RPT-PRT	1	Report print counter
Detail		To count up when the printout is delivered outside the machine according to the charge counter at report print. Large size: 1, Small size: 1 A blank sheet is not counted.
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 99999999
Default Value		0

COPIER (Service mode for printer) > COUNTER (Counter mode) > TOTAL

2-SIDE	1	2-sided copy/print counter
Detail		To count up when the copy/printout is delivered outside the machine according to the charge counter at 2-sided copy/print. Large size: 1, Small size: 1 A blank sheet is not counted.
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 99999999
Default Value		0
SCAN	1	Scan counter
Detail		To count the number of scan operations according to the charge counter when the scanning operation is complete. Large size: 1, Small size: 1
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 99999999
Default Value		0

■ PICK-UP

COPIER (Service mode for printer) > COUNTER (Counter mode) > PICK-UP

C1	1	Cassette 1 pickup total counter
Detail		Total pickup counter value of the Cassette 1 Large size: 1, Small size: 1
Use Case		When checking the counter
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Amount of Change per Unit		1
C2	1	Cassette 2 pickup total counter
Detail		Total pickup counter value of the Cassette 2 Large size: 1, Small size: 1
Use Case		When checking the counter
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Amount of Change per Unit		1
C3	1	Cassette 3 pickup total counter
Detail		Total pickup counter value of the Cassette 3 Large size: 1, Small size: 1
Use Case		When checking the counter
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Amount of Change per Unit		1

COPIER (Service mode for printer) > COUNTER (Counter mode) > PICK-UP

C4	1	Cassette 4 pickup total counter
Detail	Total pickup counter value of the Cassette 4 Large size: 1, Small size: 1	
Use Case	When checking the counter	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Amount of Change per Unit	1	
MF	1	Multi-purpose Tray pickup total counter
Detail	Total pickup counter value of the Multi-purpose Tray Large size: 1, Small size: 1	
Use Case	When checking the counter	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Amount of Change per Unit	1	
DK	1	Paper Deck pickup total counter
Detail	Total pickup counter value of the Paper Deck Large size: 1, Small size: 1	
Use Case	When checking the counter	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
2-SIDE	1	2-sided pickup total counter
Detail	Total pickup counter value of 2-sided print Large size: 1, Small size: 1	
Use Case	When checking the counter	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	

■ FEEDER

COPIER (Service mode for printer) > COUNTER (Counter mode) > FEEDER

FEED	1	DADF original pickup total counter
Detail	To count up the number of originals picked up from the DADF.	
Use Case	When checking the total counter of original pickup by DADF	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > COUNTER (Counter mode) > FEEDER

DFOP-CNT	1	DADF hinge open/close counter
Detail		To count up the number of open/close of the DADF hinge.
Use Case		When checking the DADF hinge open/close counter
Display/Adj/Set Range		0 to 99999999
Unit		time
Default Value		0
Amount of Change per Unit		1

■ JAM

COPIER (Service mode for printer) > COUNTER (Counter mode) > JAM

TOTAL	1	Host machine total jam counter
Detail		Total number of jam occurrences in the host machine
Use Case		When checking the jam counter
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key.
Display/Adj/Set Range		0 to 99999999
Unit		time
Default Value		0
Amount of Change per Unit		1

FEEDER	1	DADF total jam counter
Detail		Total number of jam occurrences in the DADF
Use Case		When checking the jam counter
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key.
Display/Adj/Set Range		0 to 99999999
Unit		time
Default Value		0
Amount of Change per Unit		1

SORTER	1	Finisher total jam counter
Detail		Total number of jam occurrences in the Finisher
Use Case		When checking the jam counter
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key.
Display/Adj/Set Range		0 to 99999999
Unit		time
Default Value		0
Amount of Change per Unit		1

MF	1	Multi-purpose Tray jam counter
Detail		The number of pickup jam occurrences in the Multi-purpose Tray
Use Case		When checking the jam counter
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key.
Display/Adj/Set Range		0 to 99999999
Unit		time
Default Value		0
Amount of Change per Unit		1

COPIER (Service mode for printer) > COUNTER (Counter mode) > JAM

C1	1	Cassette 1 jam counter
Detail	The number of pickup jam occurrences in the Cassette 1	
Use Case	When checking the jam counter	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key.	
Display/Adj/Set Range	0 to 99999999	
Unit	time	
Default Value	0	
Amount of Change per Unit	1	
C2	1	Cassette 2 jam counter
Detail	The number of pickup jam occurrences in the Cassette 2	
Use Case	When checking the jam counter	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key.	
Display/Adj/Set Range	0 to 99999999	
Unit	time	
Default Value	0	
Amount of Change per Unit	1	
C3	1	Cassette 3 jam counter
Detail	The number of pickup jam occurrences in the Cassette 3 (Upper Cassette of the 2-cassette Pedestal)	
Use Case	When checking the jam counter	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key.	
Display/Adj/Set Range	0 to 99999999	
Unit	time	
Default Value	0	
Amount of Change per Unit	1	
C4	1	Cassette 4 jam counter
Detail	The number of pickup jam occurrences in the Cassette 4 (Lower Cassette of the 2-cassette Pedestal)	
Use Case	When checking the jam counter	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key.	
Display/Adj/Set Range	0 to 99999999	
Unit	time	
Default Value	0	
Amount of Change per Unit	1	
DK	1	Paper Deck jam counter
Detail	The number of pickup jam occurrences in the Paper Deck	
Use Case	When checking the jam counter	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key.	
Display/Adj/Set Range	0 to 99999999	
Unit	time	
Default Value	0	
Amount of Change per Unit	1	

■ MISC

COPIER (Service mode for printer) > COUNTER (Counter mode) > MISC

T-SPLY-Y	1	Y toner supply counter
Detail		To count up the number of Y-color toner supply blocks every time the Toner Stirring Screw makes a full turn.
Use Case		When checking the usage status of toner
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 99999999
Unit		block
Default Value		0
Amount of Change per Unit		1
T-SPLY-M	1	M toner supply counter
Detail		To count up the number of M-color toner supply blocks every time the Toner Stirring Screw makes a full turn.
Use Case		When checking the usage status of toner
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 99999999
Unit		block
Default Value		0
Amount of Change per Unit		1
T-SPLY-C	1	C toner supply counter
Detail		To count up the number of C-color toner supply blocks every time the Toner Stirring Screw makes a full turn.
Use Case		When checking the usage status of toner
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 99999999
Unit		block
Default Value		0
Amount of Change per Unit		1
T-SPLY-K	1	Bk toner supply counter
Detail		To count up the number of Bk-color toner supply blocks every time the Toner Stirring Screw makes a full turn.
Use Case		When checking the usage status of toner
Adj/Set/Operate Method		N/A (Display only)
Display/Adj/Set Range		0 to 99999999
Unit		block
Default Value		0
Amount of Change per Unit		1

COPIER (Service mode for printer) > COUNTER (Counter mode) > MISC

ALLPW-ON	1	Number of DCON PCB power-on times
Detail		Number of power-on times (Non-all-night Power Unit). To count up when power is turned ON (Non-all-night Power Unit).
Use Case		When checking the usage status of the product
Display/Adj/Set Range		0 to 99999999
Unit		time
Default Value		0
Amount of Change per Unit		1
HDD-ON	1	Number of hard disk start-up times
Detail		To count up when power of the hard disk is turned ON.
Use Case		When judging whether to shift the machine to power-saving state after using the printer or scanner for a job
Display/Adj/Set Range		0 to 99999999
Unit		time
Default Value		0
Amount of Change per Unit		1
SUC-A-Y	2	For R&D
SUC-A-M	2	For R&D
SUC-A-C	2	For R&D
SUC-A-K	2	For R&D
FIN-PTH	1	For R&D
Amount of Change per Unit		1
FR-STPL	1	For R&D
Amount of Change per Unit		1
MSTP-B	1	For R&D
Amount of Change per Unit		1
MSTPL	1	For R&D
Amount of Change per Unit		1
STPL-2P	1	For R&D
Amount of Change per Unit		1
STPL-F	1	For R&D
Amount of Change per Unit		1
STPL-R	1	For R&D
Amount of Change per Unit		1
SWG-RL	1	For R&D
Amount of Change per Unit		1

COPIER (Service mode for printer) > COUNTER (Counter mode) > MISC

FIN-RBLT	1	For R&D
Amount of Change per Unit	1	

■ JOB

COPIER (Service mode for printer) > COUNTER (Counter mode) > JOB

DVPAPLEN	1	For R&D
DVRUNLEN	1	For R&D

■ DRBL-1

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-1

T/S-UNIT	1	Transfer Separation Guide Unit prts ctr
Detail	Transfer Separation Guide Unit 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
T-CLN-BD	1	ITB Cleaning Blade parts counter
Detail	ITB Cleaning Blade 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
TR-BLT	1	ITB parts counter
Detail	ITB 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-1

2TR-ROLL	1	Sec Transfer Outer Roller parts counter
Detail	Secondary Transfer Outer Roller 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
2TR-INRL	1	Sec Transfer Inner Roller parts counter
Detail	Secondary Transfer Inner Roller 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
FX-LW-GR	1	Fixing Gear parts counter
Detail	Fixing Gear 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
PT-DRM	1	Drum Unit (Bk) parts counter
Detail	Drum Unit (Bk) 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-1

DV-UNT-C	1	Developing Unit (C) parts counter
Detail	Developing Unit (C) 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
DV-UNT-Y	1	Developing Unit (Y) parts counter
Detail	Developing Unit (Y) 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
DV-UNT-M	1	Developing Unit (M) parts counter
Detail	Developing Unit (M) 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-1

DV-UNT-K	1	Developing Unit (Bk) parts counter
Detail	Developing Unit (Bk) 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
C1-PU-RL	1	Cassette 1 Pickup Roller parts counter
Detail	Cassette 1 Pickup Roller 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
C1-SP-RL	1	Cassette 1 Separation Roller parts cntr
Detail	Cassette 1 Separation Roller 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-1

C1-FD-RL	1	Cassette 1 Feed Roller parts counter
Detail	Cassette 1 Feed Roller 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
C2-PU-RL	1	Cassette 2 Pickup Roller parts counter
Detail	Cassette 2 Pickup Roller 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
C2-SP-RL	1	Cassette 2 Separation Roller parts cntr
Detail	Cassette 2 Separation Roller 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-1

C2-FD-RL	1	Cassette 2 Feed Roller parts counter
Detail		Cassette 2 Feed Roller 1st line: Total counter value from the previous replacement 2nd line: Estimated life value
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Default Value		0
Amount of Change per Unit		1
M-PU-RL	1	Multi-purpose Tray Pickup Roll prts cntr
Detail		Multi-purpose Tray Pickup Roller 1st line: Total counter value from the previous replacement 2nd line: Estimated life value
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Default Value		0
Amount of Change per Unit		1
M-SP-RL	1	Multi-purpose Tray Sprtn Roll prts cntr
Detail		Multi-purpose Tray Separation Roller 1st line: Total counter value from the previous replacement 2nd line: Estimated life value
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Default Value		0
Amount of Change per Unit		1

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-1

M-FD-RL	1	Multi-purpose Tray Feed Roll prts cntr
Detail	Multi-purpose Tray Feed Roller 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
FX-LW-RL	1	Pressure Roller parts counter
Detail	Pressure Roller 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
FX-UP-FR	1	Fixing Film Unit parts counter
Detail	Fixing Film Unit 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	The counter value cannot be cleared with this item. When the part is replaced, the counter value stored by the part is displayed.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-1

FX-LW-BR	1	Fixing Bearing parts counter
Detail	Fixing Bearing	1st line: Total counter value from the previous replacement 2nd line: Estimated life value
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
WST-TNR	1	Waste Toner Container parts counter
Detail	Waste Toner Container	1st line: Total counter value from the previous replacement 2nd line: Estimated life value
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
TN-FIL1	1	Toner Filter parts counter
Detail	Toner Filter	1st line: Total counter value from the previous replacement 2nd line: Estimated life value
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-1

PT-DR-Y	1	Drum Unit (Y) parts counter
Detail	Drum Unit (Y) 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
PT-DR-M	1	Drum Unit (M) parts counter
Detail	Drum Unit (M) 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
PT-DR-C	1	Drum Unit (C) parts counter
Detail	Drum Unit (C) 1st line: Total counter value from the previous replacement 2nd line: Estimated life	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-1

TR-ROLK	1	Primary Transfer Roller(Bk) prts counter
Detail		Primary Transfer Roller (Bk) Due to engagement/disengagement of the roller, the counter is advanced separately from Y, M, and C. 1st line: Total counter value from the previous replacement 2nd line: Estimated life value
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Default Value		0
Related Service Mode		COPIER> COUNTER> DRBL-1> TR-ROLK
Amount of Change per Unit		1

TR-ROLK	1	Prmry Transfer Roll(Y,M,C) parts counter
Detail		Primary Transfer Roller (Y/M/C) Due to engagement/disengagement of the roller, the counter is advanced separately from Bk. 1st line: Total counter value from the previous replacement 2nd line: Estimated life value
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Default Value		0
Related Service Mode		COPIER> COUNTER> DRBL-1> TR-ROLK
Amount of Change per Unit		1

■ DRBL-2

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-2

DF-PU-RL	1	Pickup Roller parts counter: DADF
Detail		Pickup Roller (DADF) 1st line: Total counter value from the previous replacement 2nd line: Estimated life
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Default Value		0
Supplement/Memo		Regardless of the read mode (1-sided/2-sided), the counter is advanced every time a sheet is fed.
Amount of Change per Unit		1

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-2

DF-FD-RL	1	Feed Roller parts counter: DADF
Detail		Feed Roller (DADF) 1st line: Total counter value from the previous replacement 2nd line: Estimated life
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Default Value		0
Supplement/Memo		Regardless of the read mode (1-sided/2-sided), the counter is advanced every time a sheet is fed.
Amount of Change per Unit		1
DF-SP-RL	1	Separation Roller parts counter: DADF
Detail		Separation Roller (DADF) 1st line: Total counter value from the previous replacement 2nd line: Estimated life
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Default Value		0
Supplement/Memo		Regardless of the read mode (1-sided/2-sided), the counter is advanced every time a sheet is fed.
Amount of Change per Unit		1
STAMP	1	Stamp parts counter: DADF
Detail		Stamp (DADF) 1st line: Total counter value from the previous replacement 2nd line: Estimated life value
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		time
Default Value		0
Amount of Change per Unit		1

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-2

PD-PU-RL	1	Pickup Roller parts counter: Deck
Detail		Pickup Roller (Front/Rear) of Paper Deck 1st line: Total counter value from the previous replacement 2nd line: Estimated life
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Default Value		0
Amount of Change per Unit		1
PD-SP-RL	1	Separation Roller parts counter: Deck
Detail		Separation Roller of Paper Deck 1st line: Total counter value from the previous replacement 2nd line: Estimated life
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Default Value		0
Amount of Change per Unit		1
PD-FD-RL	1	Feed Roller parts counter: Deck
Detail		Feed Roller of Paper Deck 1st line: Total counter value from the previous replacement 2nd line: Estimated life
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Default Value		0
Amount of Change per Unit		1

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-2

C3-PU-RL	1	Casstt3 Pickup Roller prts cntr: CST-FD1
Detail		Cassette 3 Pickup Roller (Cassette Feeding Unit) 1st line: Total counter value from the previous replacement 2nd line: Estimated life value
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Default Value		0
Amount of Change per Unit		1
C3-SP-RL	1	Casstt3 Sprtn Roller prts cntr: CST-FD1
Detail		Cassette 3 Separation Roller (Cassette Feeding Unit) 1st line: Total counter value from the previous replacement 2nd line: Estimated life value
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Default Value		0
Amount of Change per Unit		1
C3-FD-RL	1	Casstt3 Feed Roller prts cntr: CST-FD1
Detail		Cassette 3 Feed Roller (Cassette Feeding Unit) 1st line: Total counter value from the previous replacement 2nd line: Estimated life value
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Default Value		0
Amount of Change per Unit		1

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-2

C4-PU-RL	1	Cassette 4 Pickup Roller parts counter
Detail	Cassette 4 Pickup Roller 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
C4-SP-RL	1	Cassette 4 Separation Roller parts cntr
Detail	Cassette 4 Separation Roller 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
C4-FD-RL	1	Cassette 4 Feed Roller parts counter
Detail	Cassette 4 Feed Roller 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-2

FIN-STPR	1	Stapler parts counter: Fin-H1/Y1
Detail		Staple Unit 1st line: Total counter value from the previous replacement 2nd line: Estimated life
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		time
Default Value		0
Amount of Change per Unit		1
PUNCH	1	Punch unit parts counter: Fin-H1/Y1
Detail		Punch Unit 1st line: total counter value from the previous replacement 2nd line: estimated life
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		time
Default Value		0
Amount of Change per Unit		1
TRY-TQLM	1	Tray Torque Limiter parts counter:Fin-Y1
Detail		Stack Tray Torque Limiter 1st line: Total counter value from the previous replacement 2nd line: Estimated life
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Default Value		0
Amount of Change per Unit		1

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-2

DL-STC	1	Stack Tray Dvry Ass'y Sttc Elim: Fin-Y1
Detail		Stack Tray Delivery Assembly Static Eliminator 1st line: Total counter value from the previous replacement 2nd line: Estimated life
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Default Value		0
Amount of Change per Unit		1
FIN-MPDL	1	Paddle parts counter: Fin-Y1
Detail		Paddle 1st line: Total counter value from the previous replacement 2nd line: Estimated life value
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		time
Default Value		0
Amount of Change per Unit		1
FR-STPL	1	Staple free stapling counter: Fin-H1/Y1
Detail		Number of executions of staple free stapling (including at the time of paper dust removal) 1st line: Total counter value from the previous replacement 2nd line: Estimated life value
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		time
Default Value		0
Related Service Mode		SORTER> FUNCTION> FR-ST-RP
Amount of Change per Unit		1

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-2

ESC-CL	1	Escape Feed Clutch parts counter: Fin-Y1
Detail	Escape Feed Clutch 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	time	
Default Value	0	
Amount of Change per Unit	1	
SDL-STC	1	Saddle Delvry Ass'y Sttc Elim: Fin-Y1
Detail	Saddle Delivery Assembly Static Eliminator 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
TRY-STC1	1	Escape Dvry Ass'y Sttc Elim cntr: Fin-Y1
Detail	Escape Delivery Assembly Static Eliminator 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-2

SW-RL-CL	1	Stck Delvry Low Rol Clt prts cntr:Fin-Y1
Detail		Lower Stack Delivery Roller Clutch 1st line: Total counter value from the previous replacement 2nd line: Estimated life
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		time
Default Value		0
Amount of Change per Unit		1
HCCPU-RL	1	High Cpcty Casstt Pickup Roll prts cntr
Detail		High Capacity Cassette Pickup Roller 1st line: Total counter value from the previous replacement 2nd line: Estimated life value
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Default Value		0
Amount of Change per Unit		1
HCCSP-RL	1	High Cpcty Casstt Sprtn Roll prts cntr
Detail		High Capacity Cassette Separation Roller 1st line: Total counter value from the previous replacement 2nd line: Estimated life value
Use Case		When checking the consumption level of parts/replacing the parts
Adj/Set/Operate Method		To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.
Caution		Clear the counter value after replacement.
Display/Adj/Set Range		0 to 99999999
Unit		sheet
Default Value		0
Amount of Change per Unit		1

COPIER (Service mode for printer) > COUNTER (Counter mode) > DRBL-2

HCCFD-RL	1	High Capacity Casstt Feed Roll prts cntr
Detail	High Capacity Cassette Feed Roller 1st line: Total counter value from the previous replacement 2nd line: Estimated life value	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Amount of Change per Unit	1	
SDL-STP	1	Saddle stitcher parts counter: Fin-Y1
Detail	Saddle stitcher unit 1st line: total counter value from the previous replacement 2nd line: estimated life	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	time	
Default Value	0	
Amount of Change per Unit	1	
DF-PR-PD	1	Pre-separation Unit parts counter: DADF
Detail	Pre-separation Unit (DADF) 1st line: Total counter value from the previous replacement 2nd line: Estimated life	
Use Case	When checking the consumption level of parts/replacing the parts	
Adj/Set/Operate Method	To clear the counter value: Select the item, and then press Clear key. To change the estimated life value: Select the item, enter the value, and then press OK key.	
Caution	Clear the counter value after replacement.	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Default Value	0	
Supplement/Memo	Regardless of the read mode (1-sided/2-sided), the counter is advanced every time a sheet is fed.	
Amount of Change per Unit	1	

■ T-CNTR

COPIER (Service mode for printer) > COUNTER (Counter mode) > T-CNTR

YELLOW	1	For R&D
MAGENTA	1	For R&D
CYAN	1	For R&D
BLACK	1	For R&D

■ MISC2

COPIER (Service mode for printer) > COUNTER (Counter mode) > MISC2

APW-TIME	2	For R&D
CPW-TIME	2	For R&D
BAT-TIME	2	For R&D
FUSE-CNT	2	For R&D
SPW-TIME	2	For R&D

■ PAPER

COPIER (Service mode for printer) > COUNTER (Counter mode) > PAPER

G52-59	1	Delivered sheet counter: 52 to 59 g/m2
Detail	To count up the number of delivered sheets with a weight of 52 to 59 g/m2. 1st line: The counter is advanced by 1 for both small size and large size. 2nd line: The counter is advanced by 1 for small size and by 2 for large size.	
Use Case	When checking the consumption level of parts based on the number of delivered sheets	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Amount of Change per Unit	1	
G60-63	1	Delivered sheet counter: 60 to 63 g/m2
Detail	To count up the number of delivered sheets with a weight of 60 to 63 g/m2. 1st line: The counter is advanced by 1 for both small size and large size. 2nd line: The counter is advanced by 1 for small size and by 2 for large size.	
Use Case	When checking the consumption level of parts based on the number of delivered sheets	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Amount of Change per Unit	1	
G64-75	1	Delivered sheet counter: 64 to 75 g/m2
Detail	To count up the number of delivered sheets with a weight of 64 to 75 g/m2. 1st line: The counter is advanced by 1 for both small size and large size. 2nd line: The counter is advanced by 1 for small size and by 2 for large size.	
Use Case	When checking the consumption level of parts based on the number of delivered sheets	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > COUNTER (Counter mode) > PAPER

G76-90	1	Delivered sheet counter: 76 to 90 g/m2
Detail	To count up the number of delivered sheets with a weight of 76 to 90 g/m2. 1st line: The counter is advanced by 1 for both small size and large size. 2nd line: The counter is advanced by 1 for small size and by 2 for large size.	
Use Case	When checking the consumption level of parts based on the number of delivered sheets	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Amount of Change per Unit	1	
G91-105	1	Delivered sheet counter: 91 to 105 g/m2
Detail	To count up the number of delivered sheets with a weight of 91 to 105 g/m2. 1st line: The counter is advanced by 1 for both small size and large size. 2nd line: The counter is advanced by 1 for small size and by 2 for large size.	
Use Case	When checking the consumption level of parts based on the number of delivered sheets	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Amount of Change per Unit	1	
G106-128	1	Delivered sheet counter: 106 to 128 g/m2
Detail	To count up the number of delivered sheets with a weight of 106 to 128 g/m2. 1st line: The counter is advanced by 1 for both small size and large size. 2nd line: The counter is advanced by 1 for small size and by 2 for large size.	
Use Case	When checking the consumption level of parts based on the number of delivered sheets	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Amount of Change per Unit	1	
G129-150	1	Delivered sheet counter: 129 to 150 g/m2
Detail	To count up the number of delivered sheets with a weight of 129 to 150 g/m2. 1st line: The counter is advanced by 1 for both small size and large size. 2nd line: The counter is advanced by 1 for small size and by 2 for large size.	
Use Case	When checking the consumption level of parts based on the number of delivered sheets	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Amount of Change per Unit	1	
G151-163	1	Delivered sheet counter: 151 to 163 g/m2
Detail	To count up the number of delivered sheets with a weight of 151 to 163 g/m2. 1st line: The counter is advanced by 1 for both small size and large size. 2nd line: The counter is advanced by 1 for small size and by 2 for large size.	
Use Case	When checking the consumption level of parts based on the number of delivered sheets	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > COUNTER (Counter mode) > PAPER

G164-180	1	Delivered sheet counter: 164 to 180 g/m2
Detail	To count up the number of delivered sheets with a weight of 164 to 180 g/m2. 1st line: The counter is advanced by 1 for both small size and large size. 2nd line: The counter is advanced by 1 for small size and by 2 for large size.	
Use Case	When checking the consumption level of parts based on the number of delivered sheets	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Amount of Change per Unit	1	
G181-220	1	Delivered sheet counter: 181 to 220 g/m2
Detail	To count up the number of delivered sheets with a weight of 181 to 220 g/m2. 1st line: The counter is advanced by 1 for both small size and large size. 2nd line: The counter is advanced by 1 for small size and by 2 for large size.	
Use Case	When checking the consumption level of parts based on the number of delivered sheets	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Amount of Change per Unit	1	
G221-256	1	Delivered sheet counter: 221 to 256 g/m2
Detail	To count up the number of delivered sheets with a weight of 221 to 256 g/m2. 1st line: The counter is advanced by 1 for both small size and large size. 2nd line: The counter is advanced by 1 for small size and by 2 for large size.	
Use Case	When checking the consumption level of parts based on the number of delivered sheets	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Amount of Change per Unit	1	
G257-300	1	Delivered sheet counter: 257 to 300 g/m2
Detail	To count up the number of delivered sheets with a weight of 257 to 300 g/m2. 1st line: The counter is advanced by 1 for both small size and large size. 2nd line: The counter is advanced by 1 for small size and by 2 for large size.	
Use Case	When checking the consumption level of parts based on the number of delivered sheets	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Amount of Change per Unit	1	
G301-325	1	Delivered sheet counter: 301 to 325 g/m2
Detail	To count up the number of delivered sheets with a weight of 301 to 325 g/m2. 1st line: The counter is advanced by 1 for both small size and large size. 2nd line: The counter is advanced by 1 for small size and by 2 for large size.	
Use Case	When checking the consumption level of parts based on the number of delivered sheets	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Amount of Change per Unit	1	

COPIER (Service mode for printer) > COUNTER (Counter mode) > PAPER

G326-350	1	Delivered sheet counter: 326 to 350 g/m2
Detail	To count up the number of delivered sheets with a weight of 326 to 350 g/m2. 1st line: The counter is advanced by 1 for both small size and large size. 2nd line: The counter is advanced by 1 for small size and by 2 for large size.	
Use Case	When checking the consumption level of parts based on the number of delivered sheets	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Amount of Change per Unit	1	
G351OVER	1	Delivered sheet counter:351 g/m2 or more
Detail	To count up the number of delivered sheets with a weight of 351 g/m2 or more. 1st line: The counter is advanced by 1 for both small size and large size. 2nd line: The counter is advanced by 1 for small size and by 2 for large size.	
Use Case	When checking the consumption level of parts based on the number of delivered sheets	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 99999999	
Unit	sheet	
Amount of Change per Unit	1	

■ LIFE

COPIER (Service mode for printer) > COUNTER (Counter mode) > LIFE

TONER-Y	1	Toner (Y):Life VL and No. of days left
Detail	To display the life value and the number of days left of Toner (Y).The 3rd and 4th columns may be hidden depending on the country. 1st column: Operation Life Value 2nd column: Number of Days Left 3rd column: Life Value 4th column: Replacement Life Value	
Use Case	When checking Life VL/No. of days left	
Display/Adj/Set Range	1st column: 0 to 999 (%) 2nd column: 0 to 999 (days) 3rd column: 0 to 999 (%) 4th column: 50 to 999 (%)	
Supplement/Memo	Operation Life Value: Wear level value relative to Replacement Life Value (%) Operation Life Value = Life Value/Replacement Life Value x 100 Number of Days Left: Expected number of days until the part reaches its end of life Replacement Life Value: Target replacement life value	

COPIER (Service mode for printer) > COUNTER (Counter mode) > LIFE

TONER-M	1	Toner (M): Life VL and No. of days left
Detail	To display the life value and the number of days left of Toner (M).The 3rd and 4th columns may be hidden depending on the country. 1st column: Operation Life Value 2nd column: Number of Days Left 3rd column: Life Value 4th column: Replacement Life Value	
Use Case	When checking Life VL/No. of days left	
Display/Adj/Set Range	1st column: 0 to 999 (%) 2nd column: 0 to 999 (days) 3rd column: 0 to 999 (%) 4th column: 50 to 999 (%)	
Supplement/Memo	Operation Life Value: Wear level value relative to Replacement Life Value (%) Operation Life Value = Life Value/Replacement Life Value x 100 Number of Days Left: Expected number of days until the part reaches its end of life Replacement Life Value: Target replacement life value	
TONER-C	1	Toner (C): Life VL and No. of days left
Detail	To display the life value and the number of days left of Toner (C).The 3rd and 4th columns may be hidden depending on the country. 1st column: Operation Life Value 2nd column: Number of Days Left 3rd column: Life Value 4th column: Replacement Life Value	
Use Case	When checking Life VL/No. of days left	
Display/Adj/Set Range	1st column: 0 to 999 (%) 2nd column: 0 to 999 (days) 3rd column: 0 to 999 (%) 4th column: 50 to 999 (%)	
Supplement/Memo	Operation Life Value: Wear level value relative to Replacement Life Value (%) Operation Life Value = Life Value/Replacement Life Value x 100 Number of Days Left: Expected number of days until the part reaches its end of life Replacement Life Value: Target replacement life value	
TONER-K	1	Toner (Bk): Life VL and No. of days left
Detail	To display the life value and the number of days left of Toner (Bk).The 3rd and 4th columns may be hidden depending on the country. 1st column: Operation Life Value 2nd column: Number of Days Left 3rd column: Life Value 4th column: Replacement Life Value	
Use Case	When checking Life VL/No. of days left	
Display/Adj/Set Range	1st column: 0 to 999 (%) 2nd column: 0 to 999 (days) 3rd column: 0 to 999 (%) 4th column: 50 to 999 (%)	
Supplement/Memo	Operation Life Value: Wear level value relative to Replacement Life Value (%) Operation Life Value = Life Value/Replacement Life Value x 100 Number of Days Left: Expected number of days until the part reaches its end of life Replacement Life Value: Target replacement life value	

COPIER (Service mode for printer) > COUNTER (Counter mode) > LIFE

WST-TNR	1	Waste Toner Container:Life VL/days left
Detail		To display the life value and the number of days left of Waste Toner Container. The 3rd and 4th columns may be hidden depending on the country. 1st column: Operation Life Value 2nd column: Number of Days Left 3rd column: Life Value 4th column: Replacement Life Value
Use Case		When checking Life VL/No. of days left
Adj/Set/Operate Method		To reset Operation Life Value/Number of Days Left/Life Value: Select the item, and then press Clear key.
Caution		- Clear the counters if the waste toner container is replaced when the Preparing Waste Toner Container warning or Waste Toner Full message is not displayed. - Operation Life Value/Number of Days Left/Life Value can be reset also by clearing the counters in COPIER> COUNTER> DRBL-1> WST-TNR.
Display/Adj/Set Range		1st column: 0 to 999 (%) 2nd column: 0 to 999 (days) 3rd column: 0 to 999 (%) 4th column: 50 to 999 (%)
Supplement/Memo		Operation Life Value: Wear level value relative to Replacement Life Value (%) Operation Life Value = Life Value/Replacement Life Value x 100 Number of Days Left: Expected number of days until the part reaches its end of life Replacement Life Value: Target replacement life value
PT-DR-Y	1	Drum Unit (Y): Life VL/No. of days left
Detail		To display the life value and the number of days left of Drum Unit (Y).The 3rd and 4th columns may be hidden depending on the country. 1st column: Operation Life Value 2nd column: Number of Days Left 3rd column: Life Value 4th column: Replacement Life Value
Use Case		- When checking Life VL/No. of days left of the part - At parts replacement
Adj/Set/Operate Method		To change the Replacement Life Value: Select the item, enter the value, and then press OK key. Operation Life Value/Number of Days Left/Life Value: Display only
Caution		Operation Life Value, Number of Days Left and Life Value are reset automatically when the part is replaced.
Display/Adj/Set Range		1st column: 0 to 999 (%) 2nd column: 0 to 999 (days) 3rd column: 0 to 999 (%) 4th column: 50 to 999 (%)
Supplement/Memo		Operation Life Value: Wear level value relative to Replacement Life Value (%) Operation Life Value = Life Value/Replacement Life Value x 100 Number of Days Left: Expected number of days until the part reaches its end of life Replacement Life Value: Target replacement life value

COPIER (Service mode for printer) > COUNTER (Counter mode) > LIFE

PT-DR-M	1	Drum Unit (M): Life VL/No. of days left
Detail		To display the life value and the number of days left of Drum Unit (M).The 3rd and 4th columns may be hidden depending on the country. 1st column: Operation Life Value 2nd column: Number of Days Left 3rd column: Life Value 4th column: Replacement Life Value
Use Case		- When checking Life VL/No. of days left of the part - At parts replacement
Adj/Set/Operate Method		To change the Replacement Life Value: Select the item, enter the value, and then press OK key. Operation Life Value/Number of Days Left/Life Value: Display only
Caution		Operation Life Value, Number of Days Left and Life Value are reset automatically when the part is replaced.
Display/Adj/Set Range		1st column: 0 to 999 (%) 2nd column: 0 to 999 (days) 3rd column: 0 to 999 (%) 4th column: 50 to 999 (%)
Supplement/Memo		Operation Life Value: Wear level value relative to Replacement Life Value (%) Operation Life Value = Life Value/Replacement Life Value x 100 Number of Days Left: Expected number of days until the part reaches its end of life Replacement Life Value: Target replacement life value
PT-DR-C	1	Drum Unit (C): Life VL/No. of days left
Detail		To display the life value and the number of days left of Drum Unit (C).The 3rd and 4th columns may be hidden depending on the country. 1st column: Operation Life Value 2nd column: Number of Days Left 3rd column: Life Value 4th column: Replacement Life Value
Use Case		- When checking Life VL/No. of days left of the part - At parts replacement
Adj/Set/Operate Method		To change the Replacement Life Value: Select the item, enter the value, and then press OK key. Operation Life Value/Number of Days Left/Life Value: Display only
Caution		Operation Life Value, Number of Days Left and Life Value are reset automatically when the part is replaced.
Display/Adj/Set Range		1st column: 0 to 999 (%) 2nd column: 0 to 999 (days) 3rd column: 0 to 999 (%) 4th column: 50 to 999 (%)
Supplement/Memo		Operation Life Value: Wear level value relative to Replacement Life Value (%) Operation Life Value = Life Value/Replacement Life Value x 100 Number of Days Left: Expected number of days until the part reaches its end of life Replacement Life Value: Target replacement life value

COPIER (Service mode for printer) > COUNTER (Counter mode) > LIFE

PT-DRM	1	Drum Unit (Bk): Life VL/No. of days
Detail		To display the life value and the number of days left of Drum Unit (Bk).The 3rd and 4th columns may be hidden depending on the country. 1st column: Operation Life Value 2nd column: Number of Days Left 3rd column: Life Value 4th column: Replacement Life Value
Use Case		- When checking Life VL/No. of days left of the part - At parts replacement
Adj/Set/Operate Method		To change the Replacement Life Value: Select the item, enter the value, and then press OK key. Operation Life Value/Number of Days Left/Life Value: Display only
Caution		Operation Life Value, Number of Days Left and Life Value are reset automatically when the part is replaced.
Display/Adj/Set Range		1st column: 0 to 999 (%) 2nd column: 0 to 999 (days) 3rd column: 0 to 999 (%) 4th column: 50 to 999 (%)
Supplement/Memo		Operation Life Value: Wear level value relative to Replacement Life Value (%) Operation Life Value = Life Value/Replacement Life Value x 100 Number of Days Left: Expected number of days until the part reaches its end of life Replacement Life Value: Target replacement life value
DV-UNT-Y	1	For R&D
DV-UNT-M	1	For R&D
DV-UNT-C	1	For R&D
DV-UNT-K	1	For R&D
TR-BLT	1	For R&D
TR-ROLK	1	For R&D
TR-ROLC	1	For R&D
2TR-ROLL	1	For R&D
2TR-INRL	1	For R&D
T-CLN-BD	1	For R&D
T/S-UNIT	1	For R&D
FX-UP-FR	1	For R&D
FX-LW-BR	1	For R&D
FX-LW-RL	1	For R&D
FX-LW-GR	1	For R&D
C1-PU-RL	1	For R&D
C1-FD-RL	1	For R&D
C1-SP-RL	1	For R&D
C2-PU-RL	1	For R&D
C2-FD-RL	1	For R&D
C2-SP-RL	1	For R&D
C3-PU-RL	1	For R&D
C3-SP-RL	1	For R&D
C3-FD-RL	1	For R&D
C4-PU-RL	1	For R&D
C4-FD-RL	1	For R&D

COPIER (Service mode for printer) > COUNTER (Counter mode) > LIFE

C4-SP-RL	1	For R&D
M-PU-RL	1	For R&D
M-FD-RL	1	For R&D
M-SP-RL	1	For R&D
TN-FIL1	1	For R&D
DF-PU-RL	1	For R&D
DF-FD-RL	1	For R&D
DF-SP-RL	1	For R&D
DF-PR-PD	1	For R&D
HCCFD-RL	1	For R&D
HCCPU-RL	1	For R&D
HCCSP-RL	1	For R&D

FEEDER (ADF service mode)

DISPLAY (State display mode)

FEEDER (ADF service mode) > DISPLAY (State display mode)

FEEDSIZE	1	Dspl orgnl size detected by DADF
Detail		To display the original size detected by the DADF.
Use Case		When checking the paper size recognized by the device after scanning
Adj/Set/Operate Method		N/A (Display only)
TRY-WIDE	1	Distance of Original Width Detect Slider
Detail		To display the distance between the Original Width Detection Sliders.
Use Case		At incorrect detection of original size
Adj/Set/Operate Method		N/A (Display only)
Caution		Even if a value larger than 297.0 mm which is the maximum readable width is displayed, it does not mean that the reading range changes. When reading an original of 297.1 mm or larger in width, the edge of an image may be missing.
Display/Adj/Set Range		0 to 3048
Unit		mm
Related Service Mode		FEEDER> FUNCTION> TRY-A4
Supplement/Memo		If the edge of an image is still missing after adjustment of A4 paper width (297.0 mm) with TRY-A4, the original width may be larger than 297.1 mm.
Amount of Change per Unit		0.1

ADJUST (Adjustment mode)

FEEDER (ADF service mode) > ADJUST (Adjustment mode)

DOCST	1	Adj of DADF img lead edge margin: front
Detail		To adjust the leading edge margin on the front side at DADF reading. Execute this item when the output image after DADF installation is displaced. When replacing the Reader Controller PCB/clearing RAM data, enter the value of service label. As the value is incremented by 1, the margin is reduced by 0.1 mm. (The image moves upward.)
Use Case		- When installing DADF - When replacing the Reader Controller PCB/clearing RAM data
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Display/Adj/Set Range		-50 to 50
Unit		mm
Default Value		0
Amount of Change per Unit		0.1

FEEDER (ADF service mode) > ADJUST (Adjustment mode)

LA-SPEED	1	Fine adj img ratio: DADF,vert scan,front
Detail	To make a fine adjustment of the front side image magnification ratio in vertical scanning direction at DADF reading. As the value is incremented by 1, the image is reduced by 0.1% in vertical scanning direction. (The feeding speed increases, and the image is reduced.)	
Use Case	- When installing DADF - When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Display/Adj/Set Range	-30 to 30	
Unit	%	
Default Value	0	
Amount of Change per Unit	0.1	
DOCST2	1	Adj of DADF img lead edge margin: back
Detail	To adjust the leading edge margin on the back side at DADF reading. Execute this item when the output image after DADF installation is displaced. When replacing the Reader Controller PCB/clearing RAM data, enter the value of service label. As the value is incremented by 1, the margin is reduced by 0.1 mm. (The image moves upward.)	
Use Case	- When installing DADF - When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
LA-SPD2	1	Fine adj img ratio: DADF,vert scan,back
Detail	To make a fine adjustment of the back side image magnification ratio in vertical scanning direction at DADF reading. As the value is incremented by 1, the image is reduced by 0.01% in vertical scanning direction. (The feeding speed increases, and the image is reduced.)	
Use Case	- When installing DADF - When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Display/Adj/Set Range	-200 to 200 (-2.00 to 2.00%)	
Unit	%	
Default Value	0	
Amount of Change per Unit	0.01	
ADJMSCN1	1	Fine adj img ratio:2-sided,horz scan,frt
Detail	To make a fine adjustment of the front side image magnification ratio in horizontal scanning direction at DADF 2-sided reading. As the value is incremented by 1, the image is enlarged by 0.1% in horizontal scanning direction.	
Use Case	When image magnification ratio on the front side and back side are different at 2-sided reading	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Display/Adj/Set Range	-10 to 10	
Unit	%	
Default Value	0	
Amount of Change per Unit	0.1	

FEEDER (ADF service mode) > ADJUST (Adjustment mode)

ADJMCSN2	1	Fine adj img ratio:2-sided,horz scan,bck
Detail	To make a fine adjustment of the back side image magnification ratio in horizontal scanning direction at DADF 2-sided reading. As the value is incremented by 1, the image is enlarged by 0.1% in horizontal scanning direction.	
Use Case	When image magnification ratio on the front side and back side are different at 2-sided reading	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by -/+ key) and press OK key.	
Display/Adj/Set Range	-10 to 10	
Unit	%	
Default Value	0	
Amount of Change per Unit	0.1	

FUNCTION (Operation / inspection mode)

FEEDER (ADF service mode) > FUNCTION (Operation / inspection mode)

MTR-CHK	1	Specification of DADF operation motor
Detail	To specify the motor of DADF to operate. The motor is activated by MTR-ON.	
Use Case	At operation check	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	0 to 2 0: Pickup Motor (STM2) 1: Regist Motor (STM1) 2: Read Motor (STM3)	
Default Value	0	
Related Service Mode	FEEDER> FUNCTION> MTR-ON	
TRY-A4	1	Adj of DADF Tray width detect ref 1: A4
Detail	To automatically adjust the paper width detection reference point 1 for the DADF Original Pickup Tray. (A4)	
Use Case	- When replacing the Original Width Volume (VR) - When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Select the item, and then press OK key.	
TRY-A5R	1	Adj of DADF Tray width detect ref 2: A5R
Detail	To automatically adjust the paper width detection reference point 2 for the DADF Original Pickup Tray. (A5R)	
Use Case	- When replacing the Original Width Volume (VR) - When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Select the item, and then press OK key.	
TRY-LTR	1	Adj of DADF Tray width detect ref 1: LTR
Detail	To automatically adjust the paper width detection reference point 1 for the DADF Original Pickup Tray. (LTR)	
Use Case	- When replacing the Original Width Volume (VR) - When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Select the item, and then press OK key.	
TRY-LTRR	1	Adj of DADF Tray width detect ref2: LTRR
Detail	To automatically adjust the paper width detection reference point 2 for the DADF Original Pickup Tray. (LTRR)	
Use Case	- When replacing the Original Width Volume (VR) - When replacing the Reader Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Select the item, and then press OK key.	

FEEDER (ADF service mode) > FUNCTION (Operation / inspection mode)

FEED-CHK	1	Specify DADF individual feed operation
Detail		To specify the feed mode for DADF. Feed operation is activated by FEED-ON.
Use Case		At operation check
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 3 0: 1-sided pickup/delivery operation, 1: Not used, 2: 1-sided pickup/delivery operation (with stamp), 3: Not used
Default Value		0
Related Service Mode		FEEDER> FUNCTION> FEED-ON
FAN-CHK	1	Specification of DADF operation fan
Detail		To specify the fan of DADF to operate. The fan is activated by FAN-ON.
Use Case		At operation check
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0: Cooling Fan (FAN_A1)
Default Value		0
Related Service Mode		FEEDER> FUNCTION> FAN-ON
FAN-ON	1	Operation check of DADF fan
Detail		To start operation check of the fan specified by FAN-CHK.
Use Case		At operation check
Adj/Set/Operate Method		1) Select the item, and then press OK key. It is driven for approximately 5 seconds and is automatically stopped. 2) Press OK key. The operation check is completed.
Caution		Be sure to press the OK key again after execution. The operation automatically stops after approximately 5 seconds, but is not completed unless the OK key is pressed (STOP is not displayed).
Related Service Mode		FEEDER> FUNCTION> FAN-CHK
SL-CHK	1	Specification of DADF operation solenoid
Detail		To specify the solenoid of DADF to operate. The solenoid is activated by SL-ON.
Use Case		At operation check
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0: Stamp Solenoid (SL1)
Default Value		0
Related Service Mode		FEEDER> FUNCTION> SL-ON
SL-ON	1	Operation check of DADF solenoid
Detail		To start operation check of the solenoid specified by SL-CHK.
Use Case		At operation check
Adj/Set/Operate Method		1) Select the item, and then press OK key. It is driven for approximately 5 seconds and is automatically stopped. 2) Press OK key. The operation check is completed.
Caution		Be sure to press the OK key again after execution. The operation automatically stops after approximately 5 seconds, but is not completed unless the OK key is pressed (STOP is not displayed).
Related Service Mode		FEEDER> FUNCTION> SL-CHK

FEEDER (ADF service mode) > FUNCTION (Operation / inspection mode)

MTR-ON	1	Operation check of DADF motor
Detail		To start operation check for the motor specified by MTR-CHK.
Use Case		At operation check
Adj/Set/Operate Method		1) Select the item, and then press OK key. The unit operates for approximately 5 seconds and automatically stops. 2) Press OK key. The operation check is completed.
Caution		Be sure to press the OK key again after execution. The operation automatically stops after approximately 5 seconds, but is not completed unless the OK key is pressed (STOP is not displayed).
Related Service Mode		FEEDER> FUNCTION> MTR-CHK
ROLL-CLN	1	Rotation of DADF rollers
Detail		To rotate the rollers of DADF for cleaning. Check the rollers with lint-free paper moistened with alcohol while they are rotating.
Use Case		When cleaning the rollers
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Clean the rotating rollers with lint-free paper moistened with alcohol. 3) Press OK key. The rollers stop.
FEED-ON	1	Operation check of DADF individual feed
Detail		To start operation check of the feed mode specified by FEED-CHK.
Use Case		At operation check
Adj/Set/Operate Method		Select the item, and then press OK key.
Related Service Mode		FEEDER> FUNCTION> FEED-CHK

OPTION (Specification setting mode)

FEEDER (ADF service mode) > OPTION (Specification setting mode)

R-ATM	1	Set DADF double feed dtct highland mode
Detail		To set the Double Feed Sensor of the DADF to the highland mode. Set 1 if the installation site is above the altitude of 2000 meters.
Use Case		When the installation site is above the altitude of 2000 meters at installation
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 1 0: Normal, 1: Highland mode
Default Value		0
R-OVLPLV	2	Set DADF double feed dtct threshold VL
Detail		To set the threshold value at which the Double Feed Sensor of the DADF judges whether papers are double fed. Decrease the value if single feed of paper is incorrectly detected as double feed. Increase the value if double feed of paper is incorrectly detected as single feed.
Use Case		When double feed is incorrectly detected with special paper not defined in the specifications
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Caution		In the case of highlands, be sure to set R-ATM in advance.
Display/Adj/Set Range		-3 to 3
Default Value		0
Related Service Mode		FEEDER> OPTION> R-ATM

SORTER (Service mode for delivery options)

ADJUST (Adjustment mode)

SORTER (Service mode for delivery options) > ADJUST (Adjustment mode)

PNCH-Y	1	Adj punch hole horz rgst pstn: Fin-H1/Y1
Detail	To adjust the punch hole in horizontal registration direction. As the value is incremented by 1, the punch hole moves by 0.1 mm. +: Toward rear -: Toward front	
Use Case	When the punch hole is misaligned in the horizontal registration direction	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	FIN-Y1 When the setting of "PUN-Y-SW" is 0, the adjustable range is from -3 to 15. FIN-H1 When the setting of "PUN-Y-SW" is 0, the adjustable range is from -13 to 15.	
Display/Adj/Set Range	-25 to 25	
Unit	mm	
Default Value	0	
Related Service Mode	SORTER> OPTION> PUN-Y-SW	
Amount of Change per Unit	0.1	
STP-F1	1	Front 1-staple position: Fin-Y1
Detail	To adjust the front 1-staple position. As the value is changed by 1, the staple position moves by 0.1 mm. +: Toward rear -: Toward front When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB, enter the value of service label.	
Use Case	When the staple position in front/rear direction is displaced in the front 1-stapling mode When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB.	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-30 to 30	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	

SORTER (Service mode for delivery options) > ADJUST (Adjustment mode)

STP-R1	1	Rear 1-staple position: Fin-Y1
Detail	<p>To adjust the rear 1-staple position. As the value is changed by 1, the staple position moves by 0.1 mm. +: Toward rear -: Toward front When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB, enter the value of service label.</p>	
Use Case	<p>When the staple position in front/rear direction is displaced in the rear 1-stapling mode When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB.</p>	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-30 to 30	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
STP-2P	1	Adj 2-stapling position: Fin-H1/Y1
Detail	<p>To adjust the 2-staple position. As the value is changed by 1, the staples position moves by 0.1 mm. +: Toward rear -: Toward front When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB, enter the value of service label.</p>	
Use Case	<p>When the staples position in front/rear direction is displaced in the 2-stapling mode When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB.</p>	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	Fin-H1: -50 to 50 Fin-Y1: -30 to 30	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
BFF-SFT	1	Ppr displace amount on buffer: Fin-Y1
Detail	<p>To adjust the paper displacement amount on Finisher Buffer Assembly. As the value is incremented by 1, the paper position moves by 0.1mm. +: The 1st sheet of buffered paper shifts toward the inlet side -: The 1st sheet of buffered paper shifts toward the delivery side When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB, enter the value of service label.</p>	
Use Case	<p>When the paper displacement occurs on the 1st to 2nd sheets of buffered paper. When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB.</p>	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-60 to 60	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	

SORTER (Service mode for delivery options) > ADJUST (Adjustment mode)

PNCH-X	1	Punch hole pstn in feed way: Fin-H1/Y1
Detail		To adjust the punch hole position on puncher unit in feed direction. As the value is incremented by 1, the punch hole moves by 0.1mm. +: Toward delivery direction -: Toward inlet direction
Use Case		When the punch hole is displaced in feed direction
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		Fin-Y1: When selecting the precision priority by operation panel menu, this adjustment cannot be executed.
Display/Adj/Set Range		-20 to 20
Unit		mm
Default Value		0
Related Service Mode		SORTER> OPTION> PUCH-SW
Additional Functions Mode		Adjustment/Maintenance> Adjust Action> Switch Finisher Puncher Mode
Amount of Change per Unit		0.1
BFF-SFT2	1	Ppr displace amount on buffer: Fin-Y1
Detail		To adjust the paper displacement amount on Finisher Buffer Assembly. As the value is incremented by 1, the paper position moves by 0.1mm. +: The 2nd sheet of buffered paper shifts toward the inlet side -: The 2nd sheet of buffered paper shifts toward the delivery side When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB, enter the value of service label.
Use Case		When the paper displacement occurs on the 2nd to 3rd sheets of buffered paper. When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB.
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range		-60 to 60
Unit		mm
Default Value		0
Amount of Change per Unit		0.1

SORTER (Service mode for delivery options) > ADJUST (Adjustment mode)

SDL-STP	1	Adj of Saddle Sttch stpl pstn: Fin-Y1
Detail	To adjust the staple position of Saddle Stitcher. As the value is incremented by 1, the staple position moves by 0.1mm. +: The staple position moves toward the left at open page of the book -: The staple position moves toward the right at open page of the book When replacing the Finiser Controller PCB/clearing the RAM data of the Finiser Controller PCB, enter the value of service label.	
Use Case	When the staple position of the Saddle Stitcher is displaced. When replacing the Finiser Controller PCB/clearing the RAM data of the Finiser Controller PCB.	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-20 to 20	
Unit	mm	
Default Value	0	
Related Service Mode	SORTER> ADJUST> SDL-STP2	
Supplement/Memo	Because the staple position of the thin paper is changed by this adjustment at the same time, perform the adjustment of SDL-STP2 as needed after performing this adjustment if the staple position of the thin paper has been adjusted by SDL-STP2.	
Amount of Change per Unit	0.1	
SDL-FLD	1	Adj of Saddle Sttch fold pstn: Fin-Y1
Detail	To adjust the fold position of Saddle Stitcher. As the value is incremented by 1, the fold position moves by 0.1 mm. +: The staple position moves toward the left at open page of the book -: The staple position moves toward the right at open page of the book When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB, enter the value of service label.	
Use Case	When the fold position of the Saddle Stitcher is displaced	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-20 to 20	
Unit	mm	
Default Value	0	
Related Service Mode	SORTER> ADJUST> SDL-FLD2	
Supplement/Memo	Because the fold position of the thin paper is changed by this adjustment at the same time, perform the adjustment of SDL-FLD2 as needed after performing this adjustment if the fold position of the thin paper has been adjusted by SDL-FLD2.	
Amount of Change per Unit	0.1	
SDL-ALG	1	Adj of Saddle Sttch align wid: Fin-Y1
Detail	To adjust the alignment width of Saddle Stitcher. As the value is incremented by 1, the alignment width is increased by 0.1 mm. +: The width of the adjustment plate becomes narrow. -: The width of the adjustment plate becomes wide.	
Use Case	When the misalignment occurs within a paper stack on the Saddle Stitcher	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	-20 to 20	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	

SORTER (Service mode for delivery options) > ADJUST (Adjustment mode)

PUNCH-SB	1	[Not used]
Amount of Change per Unit	0.1	
ST-ALG1	1	Adj Stacker A4 align pstn: Fin-Y1
Detail	To adjust the A4 size paper alignment position of the Process Tray. As the value is incremented by 1, the position of the adjustment plate is increased by 0.1 mm. +: Inward -: Outward When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB, enter the value of service label.	
Use Case	When misalignment occurs in A4 size paper. When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB.	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) The alignment plate moves to position of the A4 width. 3) Set the A4 paper on the processing tray. 4) Enter the setting value, and then press OK key. 5) Check the adjustment movement of the alignment plate. 6) Repeat steps 4) and 5) and adjust alignment width. 7) After completion of the adjustment, remove paper on the processing tray.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
ST-ALG2	1	Adj Stacker LTR align pstn: Fin-Y1
Detail	To adjust the LTR size paper alignment position of the Process Tray. As the value is incremented by 1, the position of the adjustment plate is increased by 0.1 mm. +: Inward -: Outward When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB, enter the value of service label.	
Use Case	When misalignment occurs in LTR size paper. When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB.	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) The alignment plate moves to position of the LTR width. 3) Set the LTR paper on the processing tray. 4) Enter the setting value, and then press OK key. 5) Check the adjustment movement of the alignment plate. 6) Repeat steps 4) and 5) and adjust alignment width. 7) After completion of the adjustment, remove paper on the processing tray.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	

SORTER (Service mode for delivery options) > ADJUST (Adjustment mode)

SW-UP-RL	1	Adj of swing unit height: Fin-Y1
Detail	To adjust the height of the swing unit. As the value is incremented by 1, the height of the swing unit is changed by angle of 0.1 degree. +: Downward -: Upward When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB, enter the value of service label.	
Use Case	When misalignment occurs by failure of the paper feeding to processing tray. When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB.	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-30 to 30	
Default Value	0	
Amount of Change per Unit	0.1	
INSTP-F1	1	Adj front 1-stapling position: Fin-H1
Detail	To adjust the front 1-staple position. As the value is changed by 1, the staple position moves by 0.1 mm. +: Toward rear -: Toward front When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB, enter the value of service label.	
Use Case	When the staple position in front/rear direction is displaced in the front 1-stapling mode When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB.	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by -/+ key) and press OK key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	
INSTP-R1	1	Adj rear 1-stapling position: Fin-H1
Detail	To adjust the rear 1-staple position. As the value is changed by 1, the staple position moves by 0.1 mm. +: Toward rear -: Toward front When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB, enter the value of service label.	
Use Case	When the staple position in front/rear direction is displaced in the rear 1-stapling mode When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB.	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by -/+ key) and press OK key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	

SORTER (Service mode for delivery options) > ADJUST (Adjustment mode)

NST-SPD	1	Adj dvry speed at non-collate: Fin-Y1
Detail	To adjust the delivery speed to the stack tray in non-collate mode. As the value is incremented by 1, the delivery speed is increased by 10 mm/sec.	
Use Case	When the stacking condition in non-collate mode is poor	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	-10 to 10	
Unit	mm/s	
Default Value	0	
Amount of Change per Unit	10	
FR-ST-PS	1	Adjust staple free pressure: Fin-H1/Y1
Detail	To adjust the binding pressure at staple free stapling. As the value is changed by 1, the binding pressure is changed by 1 mNm. +: Increase -: Decrease	
Use Case	Upon user's request (When changing the binding pressure)	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Caution	The life of staple-free binding unit becomes shorter when increasing the setting value.	
Display/Adj/Set Range	-15 to 15	
Unit	mNm	
Default Value	0	
Amount of Change per Unit	1	
FR-STP-X	1	Adj stpl free stpl pstn (Fd way): Fin-H1
Detail	To adjust the staple position for paper feed direction in the staple free stapling mode. As the value is changed by 1, the staple position moves by 0.1 mm. +: Toward inlet direction -: Toward delivery direction When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB, enter the value of service label.	
Use Case	When the staple position in paper feed direction is displaced in the staple free stapling mode When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB.	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-15 to 15	
Unit	mm	
Default Value	0	
Supplement/Memo	Change the paper shift amount in the paper feed direction. The staple free stapler position is not changed.	
Amount of Change per Unit	0.1	

SORTER (Service mode for delivery options) > ADJUST (Adjustment mode)

FR-STP-Y	1	Adj stpl free stpl pstn (F/R):Fin-H1/Y1
Detail		To adjust the staple position for front/rear direction in the staple free stapling mode. As the value is changed by 1, the staple position moves by 0.1 mm. +: Toward rear -: Toward front When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB, enter the value of service label.
Use Case		When the staple position in front/rear direction is displaced in the staple free stapling mode When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB.
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Caution		After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range		Fin-H1: -30 to 30 Fin-Y1: -20 to 15
Unit		mm
Default Value		0
Supplement/Memo		Change the paper shift amount in the front/rear direction. The staple free stapler position is not changed.
Amount of Change per Unit		0.1

SORTER (Service mode for delivery options) > ADJUST (Adjustment mode)

RBLT-PRS	1	Adj Return Belt height 1:Fin-H1/Y1
Detail	Fin-H1 As the value is changed by 1, the Return Belt is moved up or down by 0.1 mm so the amount of pressure is increased or decreased. +: Increase -: Decrease When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB, enter the value of service label. Fin-Y1 To adjust the height of the Return Belt when stacking the 65 sheets on the processing tray. As the value is changed by 1, the height of the return belt changes by angle of 0.1 degree. +: Downward -: Upward When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB, enter the value of service label.	
Use Case	When the paper alignment position is displaced. When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB.	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Caution	Fin-H1: After the setting value is changed, write the changed value in the service label. Fin-Y1: The height of Return Belt of the stacking 1 sheet adjust in the RBLT-PS3. The height of Return Belt at the stacking 2 to 64 sheets alignment on the processing tray is the total of setting values of RBLT-PRS and PBLT-PS3, After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	Fin-H1: -20 to 20 Fin-Y1: -50 to 100	
Default Value	0	
Related Service Mode	Fin-Y1: SORTER> ADJUST> RBLT-PS2,RBLT-PS3	
Supplement/Memo	Fin-Y1: The height of Return Belt when stacking the first sheet of paper or buffering the paper: The height of Return Belt is double of the setting value. (Escape position of Return Belt) The height of Return Belt when stacking the sheet of paper except for first sheet: The height of Return Belt is the setting value. (Paper feed position of Return Belt)	
Amount of Change per Unit	0.1	
MSTP-2P	1	Adj manual stapling position:Fin-H1/Y1
Detail	To adjust the staple position for front/rear direction in the manual stapling mode. As the value is changed by 1, the staple position moves by 0.1 mm. +: Toward rear -: Toward front When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB, enter the value of service label.	
Use Case	When the staple position in front/rear direction is displaced in the manual stapling mode When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB.	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	Fin-H1: -15 to 20 Fin-Y1: -20 to 30	
Unit	mm	
Default Value	0	
Amount of Change per Unit	0.1	

SORTER (Service mode for delivery options) > ADJUST (Adjustment mode)

INF-ALG1	1	Adj alignment position (A4): Fin-H1
Detail	To adjust the position of the Alignment Plate when aligning A4 paper. As the value is incremented by 1, distance between the Alignment Plates is narrowed by 0.1 mm.	
Use Case	- When the paper alignment position is displaced. - When replacing the Finisher Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. The Alignment Plate moves to the A4 paper width position. 2) Set A4 paper on the Processing Tray. 3) Enter the setting value (switch negative/positive by +/- key) and press OK key. 4) Check the operation of the Alignment Plate. 5) Repeat steps 3 and 4 until the completion of adjustment. 6) Remove the paper on the Processing Tray.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Related Service Mode	SORTER> ADJUST> INF-ALG2	
Supplement/Memo	The adjustment result is reflected in SORTER> ADJUST> INF-ALG2.	
Amount of Change per Unit	0.1	
INF-ALG2	1	Adj alignment position (LTR): Fin-H1
Detail	To adjust the position of the Alignment Plate when aligning LTR paper. As the value is incremented by 1, distance between the Alignment Plates is narrowed by 0.1 mm.	
Use Case	- When the paper alignment position is displaced. - When replacing the Finisher Controller PCB/clearing RAM data	
Adj/Set/Operate Method	1) Enter the setting value (switch negative/positive by +/- key) and press OK key. The Alignment Plate moves to the LTR paper width position. 2) Set LTR paper on the Processing Tray. 3) Enter the setting value (switch negative/positive by +/- key) and press OK key. 4) Check the operation of the Alignment Plate. 5) Repeat steps 3 and 4 until the completion of adjustment. 6) Remove the paper on the Processing Tray.	
Caution	After the setting value is changed, write the changed value in INF-ALG1 of the service label.	
Display/Adj/Set Range	-50 to 50	
Unit	mm	
Default Value	0	
Related Service Mode	SORTER> ADJUST> INF-ALG1	
Supplement/Memo	The adjustment result is reflected in SORTER> ADJUST> INF-ALG1.	
Amount of Change per Unit	0.1	

SORTER (Service mode for delivery options) > ADJUST (Adjustment mode)

CENT-ALG	1	Adj ctr align standard pstn: Fin-H1/Y1
Detail		To adjust the standard position for the center alignment As the value is incremented by 1, the standard position for the center alignment moves by 0.1 mm. +: Toward rear -: Toward front
Use Case		- When the standard position for the center alignment is misaligned - When the paper alignment position is displaced. - When replacing the Finisher Controller PCB/clearing RAM data
Adj/Set/Operate Method		Enter the setting value (switch negative/positive by +/- key) and press OK key.
Caution		This adjustment influences alignment operation and staple position. Fin-H1: Adjust the alignment width with INF-ALG1/2. After the setting value is changed, write the changed value in the service label. Fin-Y1: Adjust the alignment width with ST-ALG1/2.
Display/Adj/Set Range		Fin-H1: -10 to 10 Fin-Y1: -50 to 50
Unit		mm
Default Value		0
Related Service Mode		Fin-H1: SORTER> ADJUST> INF-ALG1, INF-ALG2 Fin-Y1: SORTER> ADJUST> ST-ALG1, ST-ALG2
Amount of Change per Unit		0.1
SDL-STP2	1	Adj of Saddle Sttch stpl pstn: Fin-Y1
Detail		To adjust the staple position of Saddle Stitcher (when using the thin paper; the paper that the paper weight is less than 64 g/m ²). As the value is incremented by 1, the staple position moves by 0.1mm. +: The staple position moves toward the left at open page of the book -: The staple position moves toward the right at open page of the book
Use Case		When the staple position of the Saddle Stitcher is displaced with the thin paper
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		-20 to 20
Unit		mm
Default Value		0
Related Service Mode		SORTER> ADJUST> SDL-STP
Supplement/Memo		Perform this adjustment after performing the adjustment of SDL-STP. Because the staple position of the thin paper is adjusted by the total setting values of SDL-STP and SDL-STP2, the actual adjustment of the staple position is performed in the staple position adjustable range (-20 to 20) even if entering the setting value beyond the mechanical staple position adjustable range.
Amount of Change per Unit		0.1

SORTER (Service mode for delivery options) > ADJUST (Adjustment mode)

SDL-FLD2	1	Adj of Saddle Sttch fold pstn: Fin-Y1
Detail	To adjust the fold position of Saddle Stitcher (when using the thin paper; the paper that the paper weight is less than 64 g/m ²). As the value is incremented by 1, the fold position moves by 0.1 mm. +: The fold position moves toward the left at open page of the book -: The fold position moves toward the right at open page of the book	
Use Case	When the fold position of the Saddle Stitcher is displaced with the thin paper	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	-20 to 20	
Unit	mm	
Default Value	0	
Related Service Mode	SORTER> ADJUST> SDL-FLD	
Supplement/Memo	Perform this adjustment after performing the adjustment of SDL-FLD. Because the fold position of the thin paper is adjusted by the total setting values of SDL-FLD and SDL-FLD2, the actual adjustment of the fold position is performed in the fold position adjustable range (-20 to 20) even if entering the setting value beyond the mechanical fold position adjustable range.	
Amount of Change per Unit	0.1	
ESC1-SPD	1	Adj Escape Tr delivery speed: Fin-Y1
Detail	To adjust the delivery speed to the escape tray. As the value is changed by 1, the delivery speed to the lower escape tray changes by 10 mm/sec.	
Use Case	When the paper stacking to the escape tray is misalignment	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	-10 to 10	
Unit	mm/s	
Default Value	0	
Amount of Change per Unit	10	
SFT-SPD	1	Adj dvry speed at collate mode: Fin-Y1
Detail	To adjust the delivery speed to the stack tray at collate mode. As the value is changed by 1, the delivery speed changes by 10 mm/sec.	
Use Case	When the paper stacking of stack tray at collate mode is misalignment	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	- When the value is decreased, the productivity is decreased. - When the buffer operation is performed, delivery speed does not change. (The buffer operation is the operation to deliver the stacking paper on the processing tray.) The ON/OFF of buffer operation is set by BUFF-SW.	
Display/Adj/Set Range	-5 to 5	
Unit	mm/s	
Default Value	0	
Related Service Mode	SORTER> OPTION> BUFF-SW	
Amount of Change per Unit	10	

SORTER (Service mode for delivery options) > ADJUST (Adjustment mode)

STP-SPD	1	Adj dvry speed at staple mode: Fin-Y1
Detail		To adjust the delivery speed to the stack tray at staple mode or staple-free binding mode. As the value is changed by 1, the delivery speed changes by 10 mm/sec.
Use Case		When the paper stacking at staple mode or staple-free binding mode is misalignment
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		- When the value is decreased, the productivity is decreased. - When the buffer operation is performed, delivery speed does not change. (The buffer operation is the operation to deliver the stacking paper on the processing tray.) The ON/OFF of buffer operation is set by BUFF-SW.
Display/Adj/Set Range		-5 to 5
Unit		mm/s
Default Value		0
Related Service Mode		SORTER> OPTION> BUFF-SW
Amount of Change per Unit		10
RBLT-PS2	1	Adj of Return Belt height 2:Fin-Y1
Detail		To adjust the height of the Return Belt when aligning the paper on the processing tray. As the value is changed by 1, the height of the return belt changes by angle of 0.1 degree. +: Downward -: Upward When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB, enter the value of service label.
Use Case		When the misalignment of paper stack occurs during alignment operation on the processing tray. When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB.
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		The height of Return Belt during the paper alignment on the processing tray is the total of setting values of RBLT-PRS2 and PBLT-PS3, so adjust again the setting value of RBLT-PS2 if necessary when changing the setting value of RBLT-PRS3. After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range		-30 to 30
Unit		°
Default Value		0
Related Service Mode		SORTER> ADJUST> RBLT-PRS,RBLT-PS3
Supplement/Memo		Perform this adjustment after executing adjustment of RBLT-PRS.
Amount of Change per Unit		0.1

SORTER (Service mode for delivery options) > ADJUST (Adjustment mode)

RBLT-PS3	1	Adj of Return Belt height 3:Fin-Y1
Detail	To adjust the height of the Return Belt when stacking the 1 sheet on the processing tray. As the value is changed by 1, the height of the return belt changes by angle of 0.1 degree. +: Downward -: Upward When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB, enter the value of service label.	
Use Case	When the paper alignment position is displaced. When replacing the Finisher Controller PCB/clearing the RAM data of the Finisher Controller PCB.	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press OK key.	
Caution	The height of Return Belt of the stacking 65 sheets adjust in the RBLT-PRS. The height of Return Belt at the stacking 2 to 64 sheets alignment on the processing tray is the total of setting values of RBLT-PRS and RBLT-PS3. So adjust again the setting value of RBLT-PS2 if necessary when changing the setting value of RBLT-PS3. After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-50 to 100	
Unit	°	
Default Value	0	
Related Service Mode	SORTER> ADJUST> RBLT-PRS,RBLT-PS2	
Amount of Change per Unit	0.1	

FUNCTION (Operation / inspection mode)

SORTER (Service mode for delivery options) > FUNCTION (Operation / inspection mode)

FN-SENS1	1	Adj Punch Horz Rgst Sensor: Fin-H1/Y1
Detail	To automatically adjust the output of the Horizontal Registration Sensor 1 to 5 of the Puncher Unit in sequence. Horizontal Registration Sensor 1: A3/A4, 2: LDR/LTR, 3: B4/B5, 4: A4R/LTRR/LGL, 5: B5R	
Use Case	- When installing/replacing the Puncher Unit - When replacing the Horizontal Registration Sensor of the Puncher Unit	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Caution	If paper blocks light to the sensor, the adjustment result ends in NG.	
Display/Adj/Set Range	During operation: ACTIVE, At normal termination: OK, At abnormal termination: NG	
FN-SENS2	1	Adj Punch Waste Full Sensor: Fin-H1/Y1
Detail	To automatically adjust the output of Punch Waste Full Sensor (Punch Waste Full Detection PCB) of the Puncher Unit.	
Use Case	- When installing/replacing the Puncher Unit - When replacing the Punch Waste Full Sensor	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Caution	If paper blocks light to the sensor, the adjustment result ends in NG.	
Display/Adj/Set Range	During operation: ACTIVE, At normal termination: OK, At abnormal termination: NG	
FIN-BK-R	1	Finisher backup data saving: Fin-H1/Y1
Detail	To read the backup data from the Finisher Controller PCB and save in HDD.	
Use Case	When replacing the Finisher Controller PCB	
Adj/Set/Operate Method	1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	During operation: ACTIVE, At normal termination: OK, At abnormal termination: NG	
Related Service Mode	SORTER> FUNCTION> FIN-BK-W	

SORTER (Service mode for delivery options) > FUNCTION (Operation / inspection mode)

FIN-BK-W	1	Finisher backup data writing: Fin-H1/Y1
Detail		The backup data saved in HDD is written to the finisher controller PCB.
Use Case		When replacing the Finisher Controller PCB
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range		During operation: ACTIVE, At normal termination: OK, At abnormal termination: NG
Related Service Mode		SORTER> FUNCTION> FIN-BK-R
FIN-CON	1	Controller PCB RAM clear: Fin-H1/Y1
Detail		To execute the RAM clear of Finisher Controller PCB to delete all the adjustment contents. (except the counter information)
Use Case		When clearing RAM data of the Finisher Controller PCB
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		- Output the service mode setting values by P-PRINT before execution. After execution, enter the necessary setting values. - RAM clear is executed after the main power is turned OFF/ON.
Display/Adj/Set Range		During operation: ACTIVE, At normal termination: OK, At abnormal termination: NG
Related Service Mode		COPIER> FUNCTION> MISC-P> P-PRINT
Supplement/Memo		The adjustment values stored to the puncher controller PCB does not cleared.

SORTER (Service mode for delivery options) > FUNCTION (Operation / inspection mode)

MTR-CHK	1	Specification of oprtn motor: Fin-H1/Y1
Detail		To specify the motor to operate.
Use Case		- When checking whether there is any failure in the motor - When checking the operation of the replaced motor
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		When setting the staple motor (Fin-H1/Y1) and the saddle stitcher motor (Fin-Y1), remove the staple cartridge. When the staple cartridge is installed, the motor is not driven.
Display/Adj/Set Range		Fin-H1: 1 to 15 1: Feed Motor (M1) 2: Return Belt Motor (M2) 3: Front Alignment Motor (M3) 4: Rear Alignment Motor (M4) 5: Assist Motor (M5) 6: Stapler Shift Motor (M7) 7: Paddle Motor (M10) (Paddle up/down) 8: Paddle Motor (M10) (Paper retainer up/down) 9: Stapler Motor (M8) 10: Clinch Motor (M9) 11: Tray Shift Motor (M6) 12: Not Used 13: Punch Feed Motor (M3) 14: Punch Motor (M2) 15: Punch Horizontal Registration Motor (M1) Fin-Y1: 16 to 46 16: Inlet Feed Motor (M101) 17: Pre-processing/Buffer Motor (M102) 18: Stack Delivery/Paddle Motor (M103) 19: Not Used 20: Paper End Pushing Guide Motor (M112) 21: Stapler Shift Motor (M114) 22: Stack Tray Shift Motor (M105) 23: Swing Guide Motor (M110) 24: Front Alignment Motor (M107) 25: Rear Alignment Motor (M108) 26: Return Roller Lift Motor (M111) 27: Flapper Motor (M104) 28: Not Used 31: Paper End Assist Motor (M113) 30: Not Used 31: Escape Delivery Shift Motor (M106) 32: Tray Auxiliary Guide Motor (M109) 33: Cooling Fan (FM101) 34: Staple Motor (M115) 35: Staple-free Binding Motor (M116) 36: Saddle Feed/Paddle Motor (M201) 37: Saddle Delivery Motor (M207) 38: Saddle Switching Lever Motor (M202) 39: Saddle Stitcher Motor (M208) 40: Saddle Paper End Stopper Motor (M206) 41: Saddle Gripper Motor (M205) 42: Saddle Alignment Motor (M203) 43: Saddle Paper Pushing Plate/Folding Motor (M204) 44: Punch Motor (M301) 45: Punch Shift Motor (M302) 46: Buffer Pass Feed Motor (M401)
Default Value		1
Related Service Mode		SORTER> FUNCTION> MTR-ON

SORTER (Service mode for delivery options) > FUNCTION (Operation / inspection mode)

MTR-ON	1	Operation check of motor: Fin-H1/Y1
Detail	To start operation check of the motor specified by MTR-CHK. After the motor operates for the specified period of time (10 to 30 seconds), it automatically stops.	
Use Case	- When checking whether there is any failure in the motor - When checking the operation of the replaced motor	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Caution	- When the job starts during the operation of the motor, the finisher sequence error jam occurs. - When the error avoidance jam occurs during the operation of the motor, the jam becomes the error immediately.	
Display/Adj/Set Range	During operation: ACTIVE, At normal termination: OK, At abnormal termination: NG	
Related Service Mode	SORTER> FUNCTION> MTR-CHK	
SL-CHK	1	Specification of oprtn solenoid: Fin-H1
Detail	To specify the Solenoid to operate.	
Use Case	When replacing the Solenoid/checking the operation	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Display/Adj/Set Range	1: Paper Trailing Edge Pushing Guide Solenoid (SL1)	
Default Value	1	
Related Service Mode	SORTER> FUNCTION> SL-ON	
SL-ON	1	Operation check of solenoid: Fin-H1
Detail	To start operation check for the Solenoid specified by SL-CHK. After the solenoid operates for the specified period of time (10 to 30 seconds), it automatically stops.	
Use Case	When replacing the Solenoid/checking the operation	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Display/Adj/Set Range	During operation: ACTIVE, At normal termination: OK, At abnormal termination: NG	
Related Service Mode	SORTER> FUNCTION> SL-CHK	
CNT-FCON	1	For R&D
FR-ST-RP	1	Ppr dust remov at stpl free stpl:All Fin
Detail	To remove the paper dust from the staple-free binding unit, the staple-free binding operation repeatedly is executed 30 times without paper. When this mode is executed, the performance of the staple-free binding unit recovers.	
Use Case	When the performance of the staple-free binding unit deteriorates	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Caution	Finisher-H1/Y1: - The Staple free stapling parts counter is advanced. Finisher-Y1: - If a job is submitted during execution of this mode, it is to be a finisher sequence error jam. - If an error avoidance jam occurs during execution of this mode, it is to be an error immediately.	
Display/Adj/Set Range	During operation: ACTIVE, At normal termination: OK, At abnormal termination: NG	
Related Service Mode	COPIER> COUNTER> DRBL-2> FR-STPL	
Supplement/Memo	The removed paper dust accumulates on the lower frame under the paper path, so it does not influence to the machine performance. The part counter value of the staple free stapling operation is counted.	

SORTER (Service mode for delivery options) > FUNCTION (Operation / inspection mode)

CL-CHK	1	Specify of operation Clutch: Fin-Y1
Detail		To specify the Clutch to operate.
Use Case		When replacing the Clutch/checking the operation
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		1 to 3 1: Lower Stack Delivery Roller Clutch (CL102) 2: Escape Feed Clutch (CL101) 3: Paddle Clutch (CL103)
Default Value		1
Related Service Mode		SORTER> FUNCTION> CL-ON
CL-ON	1	Operation check of Clutch: Fin-Y1
Detail		To start operation check for the Clutch specified by CL-CHK. After the clutch operates for the specified period of time (10 to 30 seconds), it automatically stops.
Use Case		When replacing the Clutch/checking the operation
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		- When the job starts during the operation of the clutch, the finisher sequence error jam occurs. - When the error avoidance jam occurs during the operation of the clutch, the jam becomes the error immediately.
Display/Adj/Set Range		During operation: ACTIVE, At normal termination: OK, At abnormal termination: NG
Related Service Mode		SORTER> FUNCTION> CL-CHK
PUN-BK-R	1	Puncher backup data saving: Fin-H1/Y1
Detail		To read the backup data from Puncher Controller PCB and save in HDD.
Use Case		When replacing the Puncher Controller PCB
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Be sure to read the data before writing.
Display/Adj/Set Range		During operation: ACTIVE, At normal termination: OK, At abnormal termination: NG
Related Service Mode		SORTER> FUNCTION> PUN-BK-W
PUN-BK-W	1	Puncher backup data writing: Fin-H1/Y1
Detail		To write the backup data saved in HDD to Puncher Controller PCB.
Use Case		When replacing the Puncher Controller PCB
Adj/Set/Operate Method		1) Select the item, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		Be sure to read the data before writing.
Display/Adj/Set Range		During operation: ACTIVE, At normal termination: OK, At abnormal termination: NG
Related Service Mode		SORTER> FUNCTION> PUN-BK-R
EMSG-CLR	1	Clear Fin limited func mssg: Fin-H1/Y1
Detail		To clear the message related to staple free stapling that is displayed when functions of Finisher are limited. The staple free stapling alarm (61-0002) is cleared.
Use Case		When clearing the message related to limited functions mode that is displayed after troubleshooting of finisher is performed
Adj/Set/Operate Method		Select the item, and then press OK key.
Caution		Only the messages related to staple free stapling can be cleared.
Display/Adj/Set Range		At normal termination: OK!, At abnormal termination: NG!

OPTION (Specification setting mode)

SORTER (Service mode for delivery options) > OPTION (Specification setting mode)

MD-SPRTN	1	Restricted operation at Finisher error
Detail	To set whether to stop the machine when an error occurs at Finisher. The result set in [Limited Functions Mode] in [Settings/Registration] is displayed. Set 0 when canceling restriction on operations. When switching whether to restrict operations for each function, make the setting in [Limited Functions Mode].	
Use Case	When canceling restriction on operations of the finisher	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Do not set any value other than 0.	
Display/Adj/Set Range	0 to 255 0: Normal 1: Function restriction 2 to 255: Not use	
Default Value	0	
Additional Functions Mode	Management Settings> Device Management> Limited Functions Mode	
BUFF-SW	1	Set of fin buffer opertn: Fin-Y1
Detail	To set ON/OFF of buffer operation in the Finisher. When 1 is set, the buffer operation is not performed for all modes. The alignment performance is improved, but the productivity decreases. When 2 is set, the buffer operation is performed only for collated mode.	
Use Case	When the misalignment of the buffered paper stack occurs on the processing tray	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	When the buffer operation is set to OFF, productivity is decreased.	
Display/Adj/Set Range	0 to 2 0: ON, 1: OFF, 2: ON only at collating	
Default Value	0	
PUCH-SW	1	Hi-prdctvty/accrcy punch mod: Fin-H1/Y1
Detail	To switch the high-productivity punch mode or high-accuracy punch mode of Finisher.	
Use Case	When switching the high-productivity punch mode or high-accuracy punch mode	
Adj/Set/Operate Method	Select the item, and then press OK key.	
Display/Adj/Set Range	0 to 1 0: high-accuracy, 1: high-productivity	
Default Value	0	
Additional Functions Mode	Adjustment/Maintenance> Adjust Action> Switch Finisher Puncher Mode	
Supplement/Memo	The settings of this service mode and the "Switch Finisher Puncher Mode" of the "Settings/Registration" change at the same time.	

SORTER (Service mode for delivery options) > OPTION (Specification setting mode)

1SHT-SRT	1	Set collate dvry of 1-sheet: Fin-Y1
Detail	To set ON/OFF of collated delivery operation for a sheet of paper. When 1 is set, the collated delivery operation for a sheet of paper is not performed.	
Use Case	Upon user's request	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	The stacking condition decreases when the collated delivery operation for a sheet of paper enables. A sheet of paper is delivered by non-sort decreases when the collated delivery operation for a sheet of paper disables.	
Display/Adj/Set Range	0 to 1 0: ON, 1: OFF	
Default Value	0	
Additional Functions Mode	Setting/Registration> Function Settings> Common> Paper Output Settings> Offset Jobs	
Supplement/Memo	The collated delivery operation for a sheet of paper works in the following condition. The setting of a sheet of paper and a copy This service mode is ON. The job from a printer driver Oddset jobs is ON.	
FIN-SP1	2	Finisher special setting 1: Fin-H1/Y1
Detail	To execute the Finisher special settings 1.	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Take necessary action in accordance with the instructions from the Quality Support Division.	
Display/Adj/Set Range	00000000 to 11111111	
Default Value	00000000	
FIN-SP2	2	Finisher special setting 2: Fin-H1/Y1
Detail	To execute the Finisher special settings 2.	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Caution	Take necessary action in accordance with the instructions from the Quality Support Division.	
Display/Adj/Set Range	00000000 to 11111111	
Default Value	00000000	
NSRT-STC	1	Set stack improve mode: non-sort, Fin-Y1
Detail	To set stack improvement mode when non-collate is set to the Stack Tray. When 1 is set, paper stack is delivered at the center reference via the Process Tray even if it is non-collate mode so the stacking condition can be improved.	
Use Case	When the stacking condition at non-sorting of the stack tray is poor	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	When 1 is set: - Productivity is decreased. - In the case of the paper type or the paper size that cannot feed via a processing tray , paper is delivered by non-sort.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	

SORTER (Service mode for delivery options) > OPTION (Specification setting mode)

MSTP-TMG	1	Set of manual stpl tmg: Fin-H1/Y1
Detail		To set the duration of time before executing automatic stapling at manual staple mode. As the value is changed by 1, the time is changed by 1 second. +: Timing is delayed -: Timing becomes earlier
Use Case		Upon user's request
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		1 to 5
Unit		sec
Default Value		3
Additional Functions Mode		Adjustment/Maintenance> Adjust Action> Time Until Stapling Starts in Stapler Mode
Supplement/Memo		The setting of the service mode links the setting of the user mode.
Amount of Change per Unit		1
FR-ST-PO	1	Set staple free staple position: Fin-H1
Detail		To set the staple position of staple free stapling. When 1 is set, staple position becomes the center so paper is more likely to be come off. The staple position moves toward delivery direction by 4.0 mm and moves inward by 2.0 mm in the alignment direction.
Use Case		Upon user's request
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 1 0: Corner-stapling (normal), 1: Center-stapling
Default Value		0
Related Service Mode		SORTER> ADJUST> FR-STP-X/Y
MSTP-WT	1	Set wait time after manual stpl: Fin-H1
Detail		To set the duration of time to keep manual staple mode enabled after execution of manual stapling. While manual stapling mode is enabled, other jobs are not accepted.
Use Case		Upon user's request
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 10
Unit		sec
Default Value		0
Amount of Change per Unit		1

SORTER (Service mode for delivery options) > OPTION (Specification setting mode)

TRY-PSTN	1	Set tray pstn after job complete: Fin-H1
Detail		To set the tray position after the completion of job. When 1 is set, the tray stops at the lower limit position. Visibility of the delivered papers is improved, but FCOT becomes longer.
Use Case		Upon user's request (to improve visibility of the delivered papers)
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		When 1 is set, productivity is decreased. Do not put a foreign object under the tray to move the tray down to the lower limit position. If there is a foreign object, the tray is unable to move down, E540 may occur.
Display/Adj/Set Range		0 to 1 0: Normal (priority on productivity), 1: Lower limit position (priority on visibility)
Default Value		0
Related Service Mode		SORTER> OPTION> TRY-STP
Supplement/Memo		When 1 in SORTER> OPTION> TRY-STP is set, the tray of the inner finisher does not down after paper full detection.
PUN-Y-SW	1	Set of punch horz reg oprtn: Fin-H1/Y1
Detail		To set whether or not to perform the horizontal registration operation of puncher unit for matching with the center of the paper.
Use Case		When the adjustable range of the punch hole horizontal registration adjustment (PNCH-Y) is enlarged.
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		Fin-Y1: When punch hole position precision improvement mode is set, this mode has priority.
Display/Adj/Set Range		0 to 1 0: The horizontal registration operation is performed. 1: The horizontal registration operation is not performed. (fixed in the center position)
Default Value		0
Related Service Mode		SORTER> ADJUST> PNCH-Y SORTER> OPTION> PUCH-SW, PNCH-SW3 (Fin-Y1 only)
Additional Functions Mode		Fin-Y1 Adjustment/Maintenance> Adjust Action> Switch Finisher Puncher Mode
PNCH-SW2	1	Setting of punch hole spec: Fin-H1/Y1
Detail		To set the punch hole specification of puncher unit.
Use Case		When replacing the Puncher Unit
Adj/Set/Operate Method		1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.
Caution		When the punch hole specification is not set, malfunction may occur in the punch operation.
Display/Adj/Set Range		0 to 2 0: 2/4-hole punch 1: 2/3-hole punch 2: SWE 4-hole punch
Default Value		0

SORTER (Service mode for delivery options) > OPTION (Specification setting mode)

PNCH-SW3	1	Set punch hole hi precision mode: Fin-Y1
Detail		To set ON/OFF of the mode to improve the precision of the punch hole position. When 1 is set, the punch hole position is decided by the paper trailing edge standard.
Use Case		When the position of the punch hole is misaligned
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		- When setting to ON, the productivity is decreased. - When setting the punch mode to the precision priority, this mode enables.
Display/Adj/Set Range		0 to 1 0: OFF, 1: ON
Default Value		0
Related Service Mode		SORTER> OPTION> PUCH-SW, PUN-Y-SW
Additional Functions Mode		Adjustment/Maintenance> Adjust Action> Switch Finisher Puncher Mode
SFT-CHNG	1	Set dvry number of stck ppr: Fin-Y1
Detail		To change the number of small size papers to be delivered as a stack in offset and collate mode. When 1 is set, the number of small size papers to be delivered as a stack in offset and collate mode is changed. - Plain paper 1 and 2: Change from 5 sheets to 2 sheets - Plain paper 3: Change from 3 sheets to 2 sheets However, it is not changed when delivering paper with a weight of 106 g/m ² or more, tab paper or coated paper.
Use Case		When improving stacking performance at the time of offsetting and collating paper other than paper with a weight of 106 g/m ² or more, tab paper and coated paper
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		- When the setting value of BUFF-SW is 1, the number of plain paper 1 to 3 to be delivered as a stack is 5 sheets regardless of the setting of this mode. - For small size paper, simultaneous stack delivery is not performed in offset and collate mode.
Display/Adj/Set Range		0 to 1 0: OFF, 1: ON
Default Value		1
Related Service Mode		SORTER> OPTION> BUFF-SW
STP-ALG	1	Set align plate oprtn at stpl mod:Fin-Y1
Detail		To set the operation of alignment plates at staple mode and staple-free binding mode. Set to 1 when the alignment operation by the alignment plates is changed from one time to two times at the staple mode and staple-free binding mode.
Use Case		When improving the alignment (front/rear) of the paper at staple mode
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		When setting to ON, productivity is decreased.
Display/Adj/Set Range		0 to 1 0: OFF, 1: ON
Default Value		0

SORTER (Service mode for delivery options) > OPTION (Specification setting mode)

SDL-ALG	1	Set paddle oprtn in sddl unit: Fin-Y1
Detail		To set the paddle operation when stacking the paper in the saddle stitcher unit. Set to 1 when the paddle operation of the last stack paper in the saddle stitcher unit is changed from one rotation to two rotations.
Use Case		When improving the paper alignment of the feed direction at stacking the paper in the saddle stitcher unit
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		When setting to ON, productivity is decreased.
Display/Adj/Set Range		0 to 1 0: OFF, 1: ON
Default Value		0
TRY-STP	1	Stpl/fold stck limit clear: Fin-H1/Y1
Detail		To set whether to limit the stack capacity of the stapled copies/folded sheets. When clearing the limit, the tray height limit is applied instead.
Use Case		When stacking papers beyond the maximum number of stapled copies/folded sheets
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		When the stacking limit is cleared, stacking capacity increases, but stacking performance decreases.
Display/Adj/Set Range		Fin-H1: 0 to 1 Fin-Y1: 0 to 3 0: Normal specification 1: Clear the limit of stack capacity of the stapled copies, and apply the tray height limit 2: Clear the limit of stack capacity of the folded sheets, and apply the tray height limit 3: Clear the limit of stack capacity of both the stapled copies and folded sheets, and apply the tray height limit
Default Value		0
TRY-LMT	1	Set stack limit of stack tray: Fin-Y1
Detail		To set whether to limit the stack capacity of the stack tray. Set to 1 when the stack capacity of the stack tray for the small size paper except the thin paper and coated paper is changed from about 3,000 sheets to about 2,000 sheets.
Use Case		When the stacking performance decreases by the curled paper during stacking a large amount of the small size paper except the thin paper and coated paper
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Display/Adj/Set Range		0 to 1 0: OFF, 1: ON
Default Value		0
FR-ST-SW	1	Stpl free stpl at no stpl ctrdg: Fin-H1
Detail		When the staple cartridge is absent, staple-free stapling is not actually performed in the default setting while a job with staple-free stapling has executed since the finisher behaves in non-sort mode. Set to "1" to enable the staple-free stapling without staple cartridge.
Use Case		When executing staple-free stapling by removing a staple cartridge
Adj/Set/Operate Method		Enter the setting value, and then press OK key.
Caution		If staple-free stapling is executed while 1 is set without removing a staple cartridge and the cartridge has been installed improperly, 1C32 or E532 may occur.
Display/Adj/Set Range		0 to 1 0: OFF, 1: ON
Default Value		0

SORTER (Service mode for delivery options) > OPTION (Specification setting mode)

ASTG-TMG	1	Set ast guide oprtn start tmg : Fin-H1
Detail	Set 1 when the stack delivery failure occurs under the following conditions. - Conditions: Small size/large size, thin/recycled1,2,3/plain1, 1-sided, shift-sort/nonsort When 1 is set, the following controls are executed. - The alignment plate evacuates 0.5mm for paper wide in the stack delivery. - The operation start timing by the assist guide is delayed 70msec from a paddle rise.	
Use Case	When the stack delivery failure occurs	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	When 1 is set, productivity is decreased.	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	
TRY-UP	1	Set stck tr oprtn at ppr dvry: Fin-Y1
Detail	To set the stack tray operation at the paper stack delivery. When satisfy the following conditions, this mode functions. -Staple mode or staple-free binding mode -Paper length: 220mm or less -2-sided printing When 1 is set, the stack tray moves up delivering the paper stack from the processing tray.	
Use Case	When a downward curl occurs on the bottom paper of the delivered paper stack delivering the paper stack from the processing tray at the staple mode/staple-free binding mode	
Adj/Set/Operate Method	Enter the setting value, and then press OK key.	
Caution	When 1 is set, the guarantee stack capacity decreases to 30 sets. (the maximum stack capacity does not change.)	
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON	
Default Value	0	

BOARD (Option board setting mode)

OPTION (Specification setting mode)

BOARD (Option board setting mode) > OPTION (Specification setting mode)

MENU-1	2	Hide/dspl of printer set menu level 1
Detail	To set whether to display or hide the level 1 of printer setting menu.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	0	
MENU-2	2	Hide/dspl of printer set menu level 2
Detail	To set whether to display or hide the level 2 of printer setting menu.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	0	
MENU-3	2	Hide/dspl of printer set menu level 3
Detail	To set whether to display or hide the level 3 of printer setting menu.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	0	
MENU-4	2	Hide/dspl of printer set menu level 4
Detail	To set whether to display or hide the level 4 of printer setting menu.	
Use Case	Upon user's request	
Adj/Set/Operate Method	1) Enter the setting value, and then press OK key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 1 0: Hide, 1: Display	
Default Value	1	
SURF-OFF	1	[Not used]
TR-DSP	2	[Not used]

FAX (Service Mode for FAX)

Overview

■ Configuration of the Service Mode

Service mode is divided into the following 10 items (#1 to #10).

Item	Name	Description
#1 SSSW	Service software switch	This can be used to conduct the registration/settings relating to basic functions of the fax, such as error management, echo prevention and prevention of communication problems.
#2 MENU	Menu switch setting	This can be used to conduct the registration/settings relating to the required functions at installation, such as NL equalizer, transmission level.
#3 NUMERIC Param.	Setting of numeric parameters	This can be used to enter numeric parameters.
#4 NCU	(Adjustment by a service technician is not possible.)	The values of this item are collectively set based on the setting of #5 TYPE.
#5 TYPE	Country/region setting	If the item "STANDARD" displayed on the display is set, #4 NCU data is collectively set to comply with the communication standards in Japan.
#6 IPFAX	Communication settings of IPFAX	If the license option for IPFAX has been enabled, IPFAX is displayed.
#7 PRINT	Printer function setting	This can be used to conduct the registration/settings relating to the printer basic service functions, such as size reduction conditions for received images.
#8 CLEAR	Data initialization mode setting	This item is to initialize each data.
#9 TEST	Test Mode	To execute various tests.
#10 REPORT	Service Report	To execute report print.

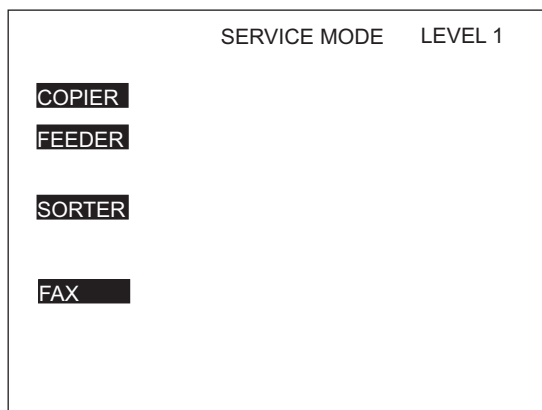
CAUTION:

If a 2nd line fax option is installed, IPFAX cannot be used.

■ Operation method

1. Enter service mode.

2. When the connected options (FEEDER, SORTER, FAX, BOARD) are displayed, select FAX and enter service mode of this board.



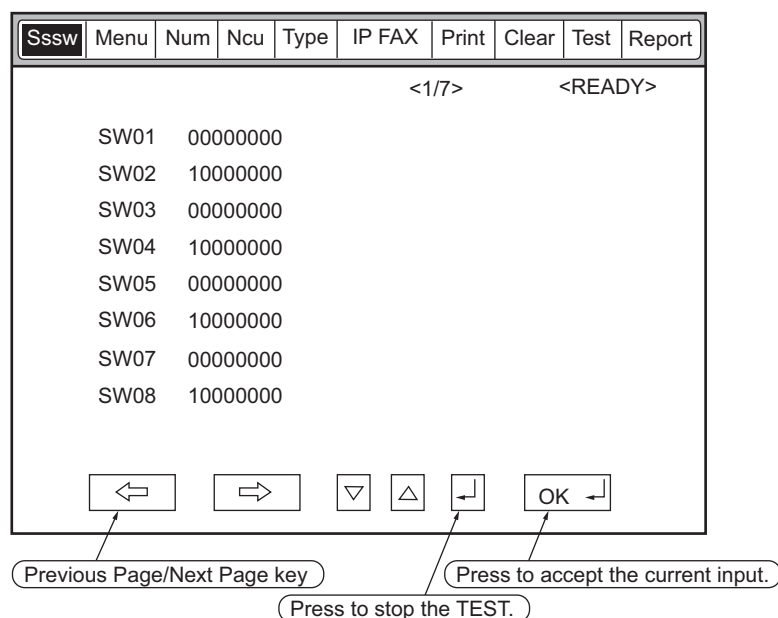
COPIER: Service mode of the connected equipment

FEEDER: Service mode of the ADF (*)

SORTER: Service mode of the Finisher (*)

FAX: Service mode of the fax (*)

The following explains the operation method using the #1 SSSW screen as an example. The meaning of the keys and operations are common for all screens.



- When changing the setting of the bit switch, directly press the bit (numeric value) you want to change.
- To enter a numeric value, use the numeric keypad.
- When confirming a change in a numeric value or when executing an item, press the [OK] key.
- To return to the previous layer, use the [Reset] key.

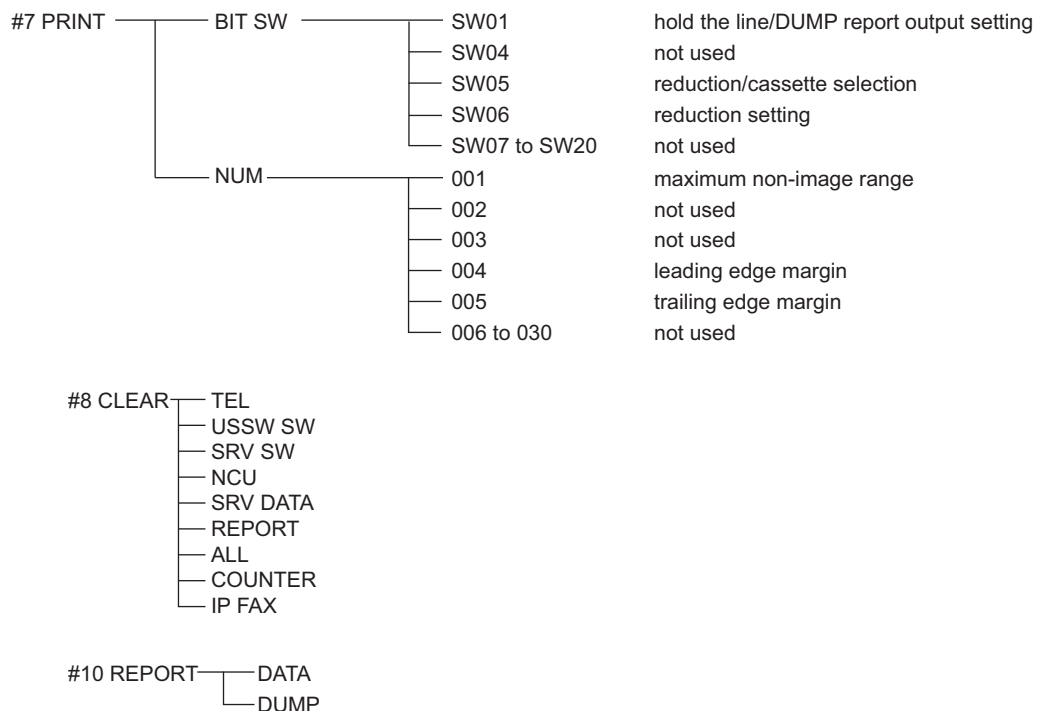
CAUTION:

When changing the service mode settings, turn OFF and then ON the power.

The details of settings in service mode are stored in the storage of the host machine. The settings for this board are enabled by loading the settings stored in the storage of the host machine to the G3 Fax Control PCB when the main power is turned ON. Therefore, be sure to turn OFF and then ON the power when the settings have been changed.

■ Menu List

#1 SSSW	SW01	error management	
	SW02	Not used	
	SW03	set remedy against echo	
	SW04	set remedy against communication error	
	SW05	set standard function <DIS signal>	
	SW06 to SW08	Not used	
	SW09	set communication result display	
	SW10 to SW11	Not used	
	SW12	set page timer	
	SW13	Display of the screen Settings	
	SW14	Inch/mm resolution settings	
	SW15	Not used	
	SW17	Transmission level setting of modem	
	SW18	The control of IP supported communication setting	
	SW19 to SW21	Not used	
	SW22	Settings of archive send function	
	SW23 to SW24	Not used	
	SW25	set report display function	
	SW26	set transmission function	
	SW27	Not used	
	SW28	set V. 8/V. 34	
	SW29	Not used	
	SW30	Dial tone detection method switching	
	SW31 to SW50	Not used	
	#2 MENU	001 to 004	Not used
		005	NL equalizer
		006	line monitor
		007	transmission level (ATT)
		008	V.34 modulation speed upper limit
		009	V.34 data speed upper limit
010 to 020		Not used	
#3 NUM	001	not used	
	002	RTN transmission condition (1)	
	003	RTN transmission condition (2)	
	004	RTN transmission condition (3)	
	005	NCC pause time (before ID code)	
	006	NCC pause time (after ID code)	
	007	pre-pulse time at time of call	
	008	not used	
	009	number of characters in telephone numbers between transmitting and receiving parties.	
	010	line connection identification time	
	011	T.30 T1 timer (for reception)	
	012	not used	
	013	T.30 EOL timer	
	014	not used	
	015	hooking detection time	
	016	Time until a temporary response is obtained when switching FAX/TEL	
	017	Pseudo RBT signal pattern ON time	
	018	Pseudo RBT signal pattern ON time (short)	
	019	Pseudo RBT signal pattern OFF time (long)	
	020	Pseudo CI signal pattern ON time	
	021	Pseudo CI signal pattern OFF time (short)	
	022	Pseudo CI signal pattern OFF (long)	
	023	CNG detection level when switching FAX/TEL	
	024	Pseudo RBT transmission level when switching FAX/TEL	
	025	CNG monitoring time when the answering phone connection function is set	
	026	Silent detection level when the answering phone connection function is set	
	027	preamble detection time for V.21 low-speed flag	
	028	Off-hook PCB duty settings	
	029-80	not used	



Setting of Bit Switch (SSSW)

Bit Switch Composition

The registration/setup items of the switch are set according to the positions of its 8 bits; the bit switch shown on the display is as follows, each bit being either 0 or 1:

Bit 7								Bit 0
SW01	0	0	0	0	0	0	0	0

CAUTION:

Do not change service data identified as "not used"; they are set as initial settings.

Sssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report
<1/7> <READY>									
SW01		0	0	0	0	0	0	0	0
SW02		1	0	0	0	0	0	0	0
SW03		0	0	0	0	0	0	0	0
SW04		1	0	0	0	0	0	0	0
SW05		0	0	0	0	0	0	0	0
SW06		1	0	0	0	0	0	0	0
SW07		0	0	0	0	0	0	0	0
SW08		1	0	0	0	0	0	0	0

← → ▽ △ ↵ OK ↵

• SSSW-SW01

Functional Construction

Bit	Function	1	0
0	Error codes for service technician	Output	Do not output
1	Error dump list	Output	Do not output
2	Not used	-	-
3	Not used	-	-
4	Display service error codes in the ##300 series	Display	Do not display
5	Increase the capacity of SUBLOG for USBFAX2	Increase	Do not increase
6	Not used	-	-
7	Cancel prohibition of user setting collectively	Cancel	Do not cancel

Details of Bit 0

Select whether to output service error codes.

When "Output" is selected, service error codes will be on the display and on the report.

Detailed Discussions of Bit 1

Select whether to output error dump list.

When "Output" is selected, the error transmission report and the reception result report at the time of occurrence of an error are output with the error dump list attached.

Detailed Discussions of Bit 4

Select whether to display service error codes in the ##300 series.

Detailed Discussions of Bit 5

Select whether to increase the log storage area when firmware automatic update function of USBFAX2 (a modem with Silicone Labs modem mounted version) is used.

Detailed Discussions of Bit 7

Select whether to collectively cancel the prohibition of user settings.

• SSSW-SW02

Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Not used	-	-
3	Not used	-	-
4	To prohibit control channel retrain during V.34	Prohibit	Do not prohibit
5	Not used	-	-
6	Not used	-	-
7	F-NET service without ring tone	Supported	Not supported

Detailed Discussions of Bit 4

Select whether to prohibit the control channel retrain during V.34.

Detailed Discussions of Bit 7

Select whether to support F-NET (fax communication network) service without a ring tone.

If "Supported" is selected, fax document will be automatically received without a ring tone when FC signal (1300 Hz tonal signal) from F-NET is detected.

• SSSW-SW03

Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	Echo protect tone at high speed transmission	Send	Do not send

Bit	Function	1	0
2	Not used	-	-
3	Not used	-	-
4	Transmission mode: International transmission (1)	Yes	No
5	Transmission mode: International transmission (3)	Yes	No
6	Send mode	International transmission (3)	International transmission (2)
7	Tonal signal before sending CED signal	Send	Do not send

Detailed Discussions of Bit 1

Use it to enable/disable sending an echo protect tone for a high-speed transmission V.29 modem signal (transmission speed at 9600 or 7200 bps).

If errors occur frequently at time of sending fax because of the condition of the line, select "Send". Selecting "send" sends non-modulated carrier for about 200 ms as the synchronous signal before sending images.

NOTE:

Error codes caused by line condition when sending fax
##100, ##104, ##281, ##282, ##283, ##750, ##755, ##760, ##765

Detailed Discussions of Bits 4, 5 and 6

Transmission mode: Selected to use whether international transmission (1), international transmission (2) or international transmission (3).

Use these switches or the dial registration to select a transmission mode if errors occur frequently at time when sending fax overseas.

NOTE:

Error codes caused by echoes at time of sending fax
#005, ##100, ##101, ##102, ##104, ##201, ##280, ##281, ##283, ##284, ##750, ##760, ##765, ##774, ##779, ##784, ##794

Settings using the Dial Registration (user level):

Select "international transmission (1)" when making an entry in the address book. If errors persist, select "international transmission (2)" and then "international transmission (3)".

Transmission mode selected using One-Touch Dial function or the Speed Dial function will be given priority over the setting made by the service soft switch.

An international transmission mode may be selected using the keypad if a mode has been selected using this switch; for settings, see the following table:

Transmission mode	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
International transmission (1)	*	0	0	1	-	-	*	-
International transmission (2)	*	0	1	0	-	-	*	-
International transmission (3)	*	1	1	0	-	-	*	-

International transmission (1): Selected to ignore the first DIS signal from the other party.

International transmission (2): Selected to transmit a 1850-Hz total signal when transmitting the DIS signal.

International transmission (3): Selected to transmit a 1650-Hz total signal when transmitting the DIS signal.

Detailed Discussions of Bit 7

Select whether to enable/disable sending of a 1080-Hz tonal signal before sending CED signal.

Select "Send" if errors occur frequently because of an echo when reception is from overseas.

NOTE:

Error codes caused by echoes at the time of reception
#005, ##101, ##106, ##107, ##114, ##200, ##201, ##790

• SSSW-SW04

Functional Construction

Bit	Function	1	0
0	LC monitoring	Monitor	Do not monitor
1	Check the CI signal frequency	Check	Do not checked
2	Final flag sequences of the procedure signal	2 pcs	1 piece
3	Reception mode after sending CFR signal	High speed	High speed/low speed
4	Time to ignore low-speed signals after sending CFR signal	1500 msec	700 msec
5	Check the CS signal frequency (when PBX is set)	Check	Do not check
6	CNG signal at the time of manual sending	Send	Do not send
7	CED signal at the time of manual reception	Send	Do not send

Detailed Discussions of Bit 1

Select whether to check the CI signal frequency.

Detailed Discussions of Bit 2

Select the number of the final flag sequences with the procedure signal (300 bps transmission speed).
Select "2" when the other party's machine does not properly receive the procedure signal sent by this machine.

NOTE:

Error codes occurring at the time of sending fax

##100, ##280, ##281, ##750, ##753, ##754, ##755, ##758, ##759, ##760, ##763, ##764, ##765, ##768, ##769, ##770, ##773, ##775, ##778, ##780, ##783, ##785, ##788

Detailed Discussions of Bit 3

Select a reception mode after sending CFR signal.

Select "High speed" in the case of frequent errors caused by line condition at the time of reception. Simultaneously, turn "OFF" the "ECM reception" of the user data.

NOTE:

Error codes caused by line condition at the time of reception

##107, ##114, ##201

Be sure to change bit 4 before changing this bit; if errors still occur, change this bit.

When 'high speed' is selected, only high-speed signals (images) will be received after sending the CFR signal.

Detailed Discussions of Bit 4

Select the time length during which low-speed signals are ignored after sending the CFR signal.

Select "1500 msec" when reception of image signal is difficult because the line condition is not good.

Detailed Discussions of Bit 5

Select whether to check the CI signal frequency when PBX is set.

Detailed Discussions of Bit 6

Select whether to send CNG signal at the time of manual sending.

If error occurs frequently at manual sending when the destination device that has FAX/TEL switch mode does not change to the fax mode, select "Send".

Detailed Discussions of Bit 7

Select whether to send CED signal at the time of manual reception.

Select "Send" when the other party's machine does not start sending although manual reception is executed.

• SSSW-SW05

Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	To execute mm/inch conversion (text mode).	Yes	No
2	Not used	-	-

Bit	Function	1	0
3	To send bit 33 or later of DIS signal.	Prohibit	Do not prohibit
4	Record paper length to be declared by DIS signal	A4/B4 size	Any size
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

Detailed Discussions of Bit 1

Execute mm/inch conversion for the image scanned in text mode.

Detailed Discussions of Bit 3

Select whether to send bit 33 or later of DIS signal.

CAUTION:

If "Prohibit" is selected, the super-fine reception from other brand printers or memory box function will be disabled.

Detailed Discussions of Bit 4

Select whether the paper to be declared by DIS signal is a cut paper.

Select "A4/B4 size" if dividing the original at the sending machine side at the time of receiving a long original.

NOTE:

Depending on the model of sending machine, long originals may not be divided.

• SSSW-SW09

Functional Construction

Bit	Function	1	0
0	Communication result at normal completion	Display	Do not display
1	Communication result at completion with an error	Display	Do not display
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

Detailed Discussions of Bit 0 and 1

Select whether to continue displaying the communication result on the Control Panel at normal completion and/or at completion with an error.

• SSSW-SW12

Functional Construction

Bit	Function	1	0
0	Timeout period for sending 1 page (sending)	1	0
1	Timeout period for sending 1 page (sending)	1	0
2	Timeout period for sending 1 page (HT sending)	1	0
3	Timeout period for sending 1 page (HT sending)	1	0
4	Timeout period for sending 1 page (reception)	1	0
5	Timeout period for sending 1 page (reception)	1	0
6	Not used	-	-
7	Page timer settings for sending/receiving	Set	Do not set

This machine stops communication when sending/receiving per original page takes 32 minutes or longer. When setting the timer different from the above, see the following to set the most appropriate time length.

When 'Do not set' is selected using bit 7, the timeout length per page for all modes will depend on the setting of bit 0 and bit 1.

Timeout period at the time of sending/receiving

Timeout period	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
8 min.	0	*	*	*	*	*	0	0
16 min.	0	*	*	*	*	*	0	1
32 min.	0	*	*	*	*	*	1	0
64 min.	0	*	*	*	*	*	1	1

Timeout period at the time of sending (in text mode)

Timeout period	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
8 min.	1	*	*	*	*	*	0	0
16 min.	1	*	*	*	*	*	0	1
32 min.	1	*	*	*	*	*	1	0
64 min.	1	*	*	*	*	*	1	1

Timeout period at the time of sending (in text mode)

Timeout period	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
8 min.	1	*	*	*	0	0	*	*
16 min.	1	*	*	*	0	1	*	*
32 min.	1	*	*	*	1	0	*	*
64 min.	1	*	*	*	1	1	*	*

Timeout period at the time of reception

Timeout Period	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
8 min.	1	*	0	0	*	*	*	*
16 min.	1	*	0	1	*	*	*	*
32 min.	1	*	1	0	*	*	*	*
64 min.	1	*	1	1	*	*	*	*

• SSSW-SW13

Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Not used	-	-
3	Display Modem Dial-in/My Number Setting screen	Yes	No
4	Display Number Display Setting screen	Yes	No
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

Detailed Discussions of Bit 3

To set whether to display Modem Dial-in Setting screen and My Number Setting screen.

NOTE:

Turn OFF and then ON the power of the host machine after the setting.

Detailed Discussions of Bit 4

To set whether to enable the display of Number Display Setting screen.

NOTE:

Turn OFF and then ON the power of the host machine after the setting.

• SSSW-SW14

Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Not used	-	-
3	Not used	-	-
4	inch-configuration resolution declaration	Yes	No
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

Detailed Discussions of Bit 4

At the time of G3 communication, select whether to declare inch-configuration resolution to the other party's machine. if 'declare' is selected, the machine will indicate that it reads and records at an inch-configuration resolution using the DIS, DCS, or DTC signal.

• SSSW-SW17

Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	To select the transmission level of the modem	0 to 15	8 to 15
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

Detailed Discussions of Bit 1

Select the transmission level of the modem.

• SSSW-SW18

Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Prohibition of the control of IP supported communication	Yes	No
3	Number of command retransmission (V1.7 or earlier)	6 times	3 times
4	Request retransmission of all frames after frame loss at JBIG reception	Yes	No
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

Detailed Discussions of Bit 2

Set whether to prohibit the control of IP supported communication

1: Yes

0: No

Detailed Discussions of Bit 3

Number of command retransmission

1: 6 times

0: 3 times

Detailed Discussions of Bit 4

Set whether to request retransmission of all frames after frame loss at JBIG reception

1: Yes

0: No

• SSSW-SW22

Functional Construction

Bit	Function	1	0
0	Backup when an archive transmission error occurs	Use	Do not use
1	Not used	-	-
2	Not used	-	-
3	Prohibit manual polling operation	-	-
4	Not used	-	-
5	Not used	-	-
6	Archive transmission function	Enabled	Disabled
7	Not used	-	-

Detailed Discussions of Bit0

Select whether to back up data when a communication error occurs during archive transmission.

This function is available on the Platform Version 3.6 or later.

Detailed Discussions of Bit3

Set whether to prohibit of manual polling operation

Detailed Discussions of Bit 6

Set whether to send the sent images to the destination specified by the forwarding function.

• SSSW-SW23

Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Prohibit to rotate A4 or larger paper in portrait position by 180 degrees	-	-
3	Not used	-	-
4	Not used	-	-
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

Detailed Discussion of Bit 2

Set whether to add header with or without rotating the image by 180 degrees when A4 or larger paper is placed in the feeder in portrait position (R position).

1: Yes

0: No

• SSSW-SW25

Functional Construction

Bit	Function	1	0
0	Sender's phone number indicated in the report	Receiver's number	Caller's number
1	Not used	-	-

Bit	Function	1	0
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Firmware automatic update (USB Fax)	Prohibit	Do not prohibited
6	Not used	-	-
7	Not used	-	-

Detailed Discussions of Bit 0

Select a phone number to be indicated on the report after transmission is completed.

Caller's number: To display the caller's phone number on the report

Receiver's number: To indicate the phone number (CSI signal data) sent from the other party's machine on the report

Detailed Discussions of Bit 5

Select whether to prohibit the firmware automatic update for USB Fax.

• SSSW-SW26

Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Check the sequential broadcast.	Check	Do not check
3	Not used	-	-
4	Not used	-	-
5	Redial function when transmission error occurs	Use	Do not use
6	Not used	-	-
7	Error report when sending process is canceled	Do not output	Output

Detailed Discussions of Bit 2

Select whether to display a confirmation message when entering destination for the sequential broadcast in order to prevent the user from broadcasting by mistake.

Detailed Discussions of Bit 5

Select whether to use the redial function when outgoing transmission error occurs.

Detailed Discussions of Bit 7

Select whether to output an error report when the [Stop] key is pressed to cancel sending.

• SSSW-SW28

Functional Configuration

Bit	Function	1	0
0	V.8 procedure at the caller side	No	Yes
1	V.8 procedure at the receiver side	No	Yes
2	V.8 late start at the caller side	No	Yes
3	V.8 late start at the receiver side	No	Yes
4	Fallback from the V.34 receiver side	Prohibit	Do not prohibit
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

Detailed Discussions of Bit 0

Select whether to execute V.8 procedure when making a call.

"No": V.8 procedure is not executed even if V.8 procedure is received from the receiver side, and the procedure starts from V.21.

Detailed Discussions of Bit 1

Select whether to execute V.8 procedure when receiving a call.

"No": V.8 procedure is not executed, and the procedure starts from V.21.

Detailed Discussions of Bit 2

Select whether to execute V.8 procedure when ANSam signal from the receiver side cannot be recognized at the time of making a call and V.8 procedure is declared by DIS signal from the receiver side.

"Yes": CI signal is sent in response to the DIS signal of the receiver side to execute the V.8 procedure.

"No": CI signal is not sent in response to the DIS signal of the receiver side, and the V.21 procedure is executed.

In the case of manual transmission, there will be no V.8 late start regardless of this setting.

Detailed Discussions of Bit 3

Select whether to declare the existence of the V.8 procedure with the DIS signal that is transmitted after the ANSam signal in case that the ANSam signal at the reception is not recognized at the caller side.

"Yes": V.8 procedure is declared by DIS signal and V.8 procedure is executed after CI signal is sent from the caller side.

"No": V.8 procedure is not declared by DIS signal, and V.21 procedure is executed.

In the case of manual transmission, there will be no V.8 late start regardless of this setting.

Detailed Discussions of Bit 4

Select whether to prohibit fallback from the V.34 receiver side.

"Prohibit": There will be no fallback from the receiver side.

• SSSW-SW30

Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Switching the dial tone detection method	-	New detection method
6	Flow control between pages	Control	Do not control
7	Not used	-	-

Detailed Discussions of Bit 5

Switch the detection method when executing the dial tone detection at the time of calling.

0: New detection method (default)

1: Not used

Detailed Discussions of Bit 6

Select whether to execute flow control between pages.

• SSSW-SW50

Functional Construction

Bit	Function	1	0
0	Transmission number restriction: Function to prevent no external access code *2	ON: Enable	OFF: Disable
1	Transmission number restriction: Extension allowance, prohibition *2	Prohibited	Allow
2	Transmission number restriction: Add "0" to the first digit of external access code *2	Yes	No
3	Operate as the client of a fax server *1 *a	Yes	No
4	Display the send job stop confirmation screen when pressing Stop key *2	No	Yes
5	Send jobs that are targeted to stop when pressing Stop key *2	Ongoing send job	Incomplete send job
6	not used	-	-
7	not used	-	-

*1: Supported by the platform version 306 or later

*2: Supported by the platform version 307 or later

*a: Enabled only for USA

Details of Bit 0

To prevent incorrectly sending fax due to forgetting to use the external access number, "0", this function displays a pop-up warning window and prevents sending and returns to the status before pressing Start button by pressing [OK] after setting the fax number in [Fax] or [Scan and Send] and pressing Start button if the set telephone number does not start with "00". This function is supported even if the machine is operating in the fax server mode.

- 0: ON: Disable
- 1: OFF: Enable

CAUTION:

- If using this function, enter the telephone number from the area code.
- This function applies to the fax destination telephone number of "Address List", "One-touch" and "Numeric Keypad input".
However, the warning is not displayed with "sending from Mail Box" and "manual sending".
- A warning is displayed when sending IP fax but it is not displayed when sending PC fax.
- A warning is not displayed when forwarding transmission.
- If any registered number matches to the condition for displaying a warning, the warning is displayed with "sequential broadcast" and "group sending".
- "*" and "#" are also processed as a number.

NOTE:

Example of sending fax to 03-1234-5678

- The machine accepts sending fax with "0 (external access code) + 03 1234 5678 (telephone number)".
- The machine displays a warning and stops sending with "(no external access code) + 03 1234 5678 (telephone number)".
- If the external access code is other than "0", it can be changed from the following service mode.

Service Mode > FAX > NUM > 080

Change the default setting of 080 from "0" to the external access code used in the installation environment.

Details of Bit 1

This is set to allow or prohibit transmission to the extension line.

This is enabled only if Bit 0 (function to prevent no external access code) is "1" (ON: Enable).

If transmission to the extension line is allowed, all telephone numbers not starting with the external access code are allowed. For example, if the external access code is "0", any number starting with "00" as starting 2 digits and number of the extension line are allowed. This means numbers starting with "01" to "09" are prohibited and other numbers are allowed.

If transmission to the extension line is prohibited, only allow the telephone number starting with the external access code + area code "0". For example, if the external access code is "0", allow only numbers starting with "00" as starting 2 digits.

Prohibit all extension numbers. This means only numbers starting with "00" are allowed and other numbers are prohibited.

- 0: Allow
- 1: Prohibit

Details of Bit 2

This is the switch to add "0" to the beginning of external access code (default "0") set by the NUM switch 080.

The NUM switch can be used to set "0" and "1" but not "00" and "01" as the external access code.

This switch is used to solve this issue. In the above example, set this setting to "add" and then set the NUM switch 080 to "0" and "1" to set the external access code of "00" and "01".

- 0: No
- 1: Yes

CAUTION:

- This automatically adds the external access number to the destination telephone number for sending fax registered by Address List, One-touch and entering by the Numeric Keypad excluding Direct Send and Send from Mail Box.
- This should be set only in the network environment that sends fax by adding the external access code.
- Do not add the external access code to the telephone number for fax send destination as the external access code is automatically added.

Details of Bit 3

This switch operates the machine as the client of fax server.

- 0: No
- 1: Yes

CAUTION:

When changing this switch, make sure to turn OFF and then ON then ON the power supply twice. This is the specification for changing the fax configuration and is the same specification as adding the Fax Board to the existing machine.

Details of Bit 4

This is the switch to set to display the send job stop confirmation screen if the Stop key is pressed during sending fax.
 0: No
 1: Yes

Details of Bit 5

This is the switch to set to stop the ongoing send job or incomplete send job if the Stop key is pressed during sending fax.
 0: Incomplete send job
 1: Ongoing send job

Setting of Menu Switch (MENU)

■ Configuration of Menu Switches

Ssw	Menu	Num	Ncu	Type	IPFAX	Print	Clear	Test	Report
		<1/3>	<READY>						
001		xxxxx	←	{yyyyy}; {aaaaa~bbbbbb}					
002		xxxxx	←	{yyyyy}; {aaaaa~bbbbbb}					
003		xxxxx	←	{yyyyy}; {aaaaa~bbbbbb}					
004		xxxxx	←	{yyyyy}; {aaaaa~bbbbbb}					
005		xxxxx	←	{yyyyy}; {aaaaa~bbbbbb}					
006		xxxxx	←	{yyyyy}; {aaaaa~bbbbbb}					
007		xxxxx	←	{yyyyy}; {aaaaa~bbbbbb}					
008		xxxxx	←	{yyyyy}; {aaaaa~bbbbbb}					

No.	Function	Scope of selection
005	NL equalizer	1: ON, 0: OFF
006	Phone line monitoring	0 to 3
007	Transmission level (ATT)	8 to 15 (ex: 15 = -15 dBm)
008	Upper limit for V.34 modulation speed	0: 3429, 1: 3200, 2: 3000, 3: 2800, 4: 2743, 5: 2400
009	Upper limit for V.34 data speed	0 to 13
010	Frequency of pseudo CI signal	0: 50 Hz, 1: 25 Hz, 2: 17 Hz

005: NL equalizer

Select ON/OFF of NL equalizer.

Select "1: ON" in the case of frequent errors caused by line status at the time of communication.

NOTE:

Error codes caused by line status at the time of transmission

##100, ##101, ##102, ##104, ##201, ##281, ##282, ##283, ##750, ##755, ##765, ##774, ##779, ##784, ##789

Error codes caused by line status at the time of reception

##103, ##107, ##114, ##201, ##790, ##793

006: Phone line monitoring

Set whether to make monitoring tone of the phone line from the speaker.

- 0 (DIAL):

To make monitoring tone of the phone line from the speaker from the start of line connection until the DIS.

- 1:
To make monitoring tone of the phone line from the speaker from the start of communication until the completion.
- 2:
Not used
- 3 (OFF):
There will be no monitoring tone of the phone line from the speaker.

007: ATT transmission level

Set the transmission level (ATT).

Increase the transmission level (make it closer to 8) in the case of frequent errors caused by line status at the time of communication.

NOTE:

Error codes caused by line status at the time of transmission

##100, ##101, ##102, ##104, ##201, ##280, ##281, ##282, ##283, ##284, ##750, ##752, ##754, ##755, ##757, ##759, ##760, ##762, ##764, ##765, ##767, ##769, ##770, ##772, ##774, ##775, ##777, ##779, ##780, ##782, ##784, ##785, ##787, ##789

Error codes caused by line status at the time of reception

##103, ##106, ##107, ##201, ##793

008: Upper limit for V.34 modulation speed

Select the upper limit of the modulation speed (baud rate) in the V.34 primary channel.

When 4 (2743 baud) is selected, the communication is actually performed at 2400 baud.

009: Upper limit of V.34 data speed

Select an upper limit of data transmission speed in the V.34 primary channel in the range between 2.4k and 33.6kbps at 2400bps intervals (0: 2.4 kbps to 13: 33.6 kbps).

010: Pseudo CI signal frequency

Set pseudo CI signal frequency.

Depending on the type of external phones, there is no ring tone when the FAX/TEL switching function is working. Change the pseudo CI signal frequency when there is no ring tone.

Setting of Numeric Parameter (NUMERIC Param.)

■ Configuration of Numeric Parameters

Ssw	Menu	Num	Ncu	Type	IPFAX	Print	Clear	Test	Report
		<1/10>							
									<READY>
001		{xxxx}	←	{(yyyy)}; {aaaa~bbbb}					
002		{xxxx}	←	{(yyyy)}; {aaaa~bbbb}					
003		{xxxx}	←	{(yyyy)}; {aaaa~bbbb}					
004		{xxxx}	←	{(yyyy)}; {aaaa~bbbb}					
005		{xxxx}	←	{(yyyy)}; {aaaa~bbbb}					
006		{xxxx}	←	{(yyyy)}; {aaaa~bbbb}					
007		{xxxx}	←	{(yyyy)}; {aaaa~bbbb}					
008		{xxxx}	←	{(yyyy)}; {aaaa~bbbb}					
<input type="button" value="←"/> <input type="button" value="→"/> <input type="button" value="▽"/> <input type="button" value="△"/> <input type="button" value="↵"/> <input type="button" value="OK ↵"/>									

No.	Function	Setting range	Default value
002	RTN transmission condition (1)	1 to 99%	10
003	RTN transmission condition (2)	2 to 99 times	15
004	RTN transmission condition (3)	1 to 99 lines	12
005	NCC pause time (before ID code)	1 to 60 sec	4
006	NCC pause time (after ID code)	1 to 60 sec	4
007	Prepose time at the time of making a call	0 to 9999 (x 10 ms)	0

No.	Function	Setting range	Default value
009	Comparing the number of digits between the sender's telephone number and the receiver's telephone number	0 to 20 digits	0
010	Line connection identification time	0 to 9999 (x 10 ms)	5500
011	T.30 T1 timer (for reception)	0 to 9999 (x 10 ms)	3500
013	T.30 EOL timer	500 to 3000 (x 10 ms)	1300
015	Hooking detection time	0 to 999	120
016	Time until a temporary response is obtained when switching FAX/TEL	0 to 9	4
017	Pseudo RBT signal pattern ON time	0 to 999	100
018	Pseudo RBT signal pattern OFF time (short)	0 to 999	0
019	Pseudo RBT signal pattern OFF time (long)	0 to 999	200
020	Pseudo CI signal pattern ON time	0 to 999	100
021	Pseudo CI signal pattern OFF time (short)	0 to 999	0
022	Pseudo CI signal pattern OFF time (long)	0 to 999	200
023	CNG detection level when switching FAX/TEL	0 to 7	4
024	Pseudo RBT transmission level when switching FAX/TEL	10 to 20 (TYPE = STANDARD)	20
025	CNG monitoring time when the answering phone connection function is set		
026	Silent detection level when the answering phone connection function is set		
027	V.21 low-speed flag preamble detection time	20 (-10 ms)	0
028	Off-hook PCB duty settings	1 to 99%	0 (50%)
080	Transmission number restriction: Outside line transmission number *1	0 to 9999	0

*1 : Supported on the platform version 307 or later

002: RTN transmission condition (1)/003: RTN transmission condition (2)/004: RTN transmission condition (3)

Set the RTN signal transmission condition.

In the case of frequent errors caused by RTN signal transmission at the time of reception, increase the parameters to loosen the RTN signal transmission condition.

NOTE:

Error codes caused by RTN signal transmission at the time of reception

##104, ##107, ##114, ##201

RTN signal transmission condition (1) is the ratio of error lines for the total number of lines per page of the received image.

RTN signal transmission condition (2) is the reference value (*2) of burst error (*1).

RTN signal transmission condition (3) is the number of errors that fail to meet the reference value of burst error.

*1: Burst error (transmission errors with several continued lines)

*2: Reference value (When "15" is set, transmission error with 15 consecutive lines is recognized as a burst error.)

When any of the above conditions is detected during reception of image signals, RTN signal is sent after reception of the procedure signal from the sending machine. Increasing such parameter sends less RTN signal.

005: NCC pause time (before ID code)

Set the pause time to be automatically entered between the access code and ID code when dialing on NCC (New Common Carrier) line.

006: NCC pause time (after ID code)

Set the pause time to be automatically entered between the ID code and the other party's telephone number when dialing on NCC (New Common Carrier) line.

007: Prepose time at the time of making a call

When automatically making a call, set the time from closing a line to making a call.

009: Comparing the number of digits between the sender's telephone number and the receiver's telephone number

Set the TSI comparing the number of digits (last XX digits) when matching telephone numbers.

010: Line connection identification time

Set the line connection identification time.

Increase this parameter in the case of frequent errors caused by line connection status at the time of communication.

NOTE:

Error codes caused by line connection status

##005, ##018

The line connection identification time is the duration from when the dial signal is transmitted until the line is disconnected at the sending side, or from when DIS signal is transmitted until the line is disconnected at the reception side.

011: T.30 T1 timer (for reception)

Set T1 timer at the time of reception (wait time until receiving the meaningful signal after DIS transmission).

013: T.30 EOL timer

Set the receivable 1 line transmission time.

In the case of a long line data length (e.g.: computer FAX), extend the transmission time to prevent reception errors.

015: Hooking detection time

Set the hooking detection time.

016: Time until the primary response is obtained when switching FAX/TEL

Set the time from when capturing the line until transmission of pseudo RBT at FAX/TEL switching function operation.

017: Pseudo RBT signal pattern ON time/ 018: Pseudo RBT signal pattern OFF time (short)/ 019: Pseudo RBT signal pattern OFF time (long)

Set the pattern of pseudo RBT signal to be sent at Fax/Tel switching function operation.

020: Pseudo CI signal pattern ON time/ 021: Pseudo CI signal pattern OFF time (short)/ 022: Pseudo CI signal pattern OFF time (long)

Set the pattern of pseudo CI signal to be sent at Fax/Tel switching function operation.

023: CNG detection level when switching FAX/TEL

Set the CNG detection level at Fax/Tel switching function operation.

024: Pseudo RBT transmission level when switching FAX/TEL

Set the transmission level of pseudo RBT at Fax/Tel switching function operation.

025: CNG monitoring time when the answering phone connection function is set**027: V21 low-speed flag preamble detection time**

Set the period of time for judge detection of V.21 low-speed command preamble.

Continuous detection for the fixed period of time leads to command analysis.

028: Off-hook PCB duty settings

Set the Off-hook PCB duty setting.

When 0 or a value that is 100 or more is entered, the duty becomes 50%.

080: Transmission number restriction: Outside line transmission number

This sets the number permitted to dial to the outside line.

Only the outside line transmission by the set number is permitted and other numbers are prohibited from transmission.

Setting of Destination (TYPE)

■ Overview

When the type shown on the display is set, all the service data is set to match each country/region domestic telecommunication standards.

Setting of Printer Functions (PRINTER)

■ Setting of Bit Switch (SSSW)

● SSSW-SW01

Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Not used	-	-
6	Hold the line (when error code occurs)	Hold	Do not hold
7	Output a print log when DUMP report is output	Output	Do not output

Detailed Discussions of Bit 6

Select whether to hold the line when an error code occurs.

However, in the case of vertical scanning prioritized recording, even when 0 is set for Bit 1 and Bit 0, the priority order will be Letter -> A4 -> Legal.

Detailed Discussions of Bit 7

Select whether to output a print log at the time of the DUMP report output.

● SSSW-SW05

Functional Construction

Bit	Function	1	0
0	Letter priority	Set	Do not set
1	Legal priority	Set	Do not set
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	To prohibit reduced size printing (A4)	Prohibited	Not prohibited
6	To prohibit reduced size printing (A4)	Prohibited	Not prohibited
7	Vertical scanning prioritized recording	Set	Do not set

Detailed Discussions of Bit 0 and 1

When an image which can be printed in 100% magnification and with the same number of divided pages on any of A4, letter and legal is received, set which paper is prioritized for printing.

With the settings of Bit 0 and Bit 1, the priority order of the recording paper is shown in the following table.

Bit 1	Bit 0	Priority order of the recording paper
0	0	A4 -> Letter -> Legal
0	1	Letter -> A4 -> Legal
1	0	Legal -> Letter -> A4
1	1	Letter -> Legal -> A4

However, in the case of vertical scanning prioritized recording, the priority order will be Letter -> A4 -> Legal even when 0 is set for Bit 1 and Bit 0.

Detailed Discussions of Bit 5 and 6

Select whether to enable reduced size printing for A4 or LTR.

Detailed Discussions of Bit 7

Set whether to set vertical scanning prioritized recording.

Set:

If B4 recording paper and A4 recording paper are set and an A4 extra-long image (*) is received, printing will be on the B4 recording paper.

Do not set:

If B5 horizontal recording paper and A4 recording paper are set and a B4 image is received, printing will be by division and on B5 horizontal recording paper.

*: Image B4 or shorter and that cannot be printed on A4 recording paper.

• SSSW-SW06

Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Reduced printing from A4 to B5	Enable	Disable
6	Not used	-	-
7	Not used	-	-

Detailed Discussions of Bit 5

Set whether to execute the reduction print that forcibly reduces the received A4 size document into the B5 size. This function is invalid when outputting the report.

■ Setting of Numeric Parameter (NUMERIC Param.)

• Numerical Parameter Composition

No.	Function	Setting range	Initial setting	Unit
01	Missing areas of printing image when receiving image with longer length than standard	0 to 9999	12	1 mm
04	Leading edge blank area	0 to 9999	3	1 mm
05	Trailing edge blank area	0 to 9999	3	1 mm

<001: printing upon reception of extra-length image>

Use it to set the range of the image to be removed from when printing an extra-length received image.

Lower the parameter to decrease the range if the trailing edge of the received image must be retained (as when it is longer than the effective recording length).

<004: leading edge margin>

Use it to set the leading-edge margin for the effective recording length.

<005: trailing edge margin>

Use it to set the trailing-edge margin for the effective recording length.

IPFAX Setting

■ IPFAX

● BASIC N

Bit	Function	Setting range
2	Session control reception timeout (sec.)	0 to 9999 (0*)
20	Reception start delay time (sec.)	0 to 9999 (0*)
21	BYE sending delay time at transmission (x10 msec.)	0 to 9999 (0*)
22	BYE receiving delay time at transmission (x10 msec.)	0 to 9999 (0*)

● NETA NUM

Bit	Function	Setting range
1	T0 timer(Timer C) for IPFAX(sec.)	0 to 9999 (55*)

● NETC NUM

Bit	Function	Setting range
1	SW for adjusting the speed at VoIPGW transmission [%]	0 to 9999* However, the value is fixed in the case of ECM, and is corrected by adding 5 %.
2	VoIPGW buffer size [byte]	0 to 9999* However, when the value is 0, it is internally interpreted as 200.
3	Packet division size [byte]	0 to 9999* However, when the value is 0, it is internally interpreted as 66.
4	Number of VoIPGW buffer reset frames at ECM * At ECM transmission, when frames of the number of this NUM value have been transmitted, the next frames will be transmitted after the VoIPGW buffer becomes empty.	0 to 9999* However, when the value is 0, it is internally interpreted as 16.

● T.38 Bit Setting

SW01

Bit	Function	Setting range	
		1	0
1	German mode is effective during T.38 communication.	Effective	Invalid *
2	T.38 significant bit of DIS (bit123) is ignored. (When this SW is effective, the other party's machine is regarded as IPFAX even if DIS bit123 is 0.)	Ignore	Not ignore
3	Transmission ECM = OFF setting	Effective	Invalid *
4	Reception ECM = OFF setting	Effective	Invalid *

● T.38 NUM Setting

Bit	Function	Setting range
1	High-speed flag sending time of ECM mode for IPFAX (x10 msec.).	0 to 9999 (0*)
2	WAIT time from the close of T.38 to the close of SIP: Unit; second (However, the setting becomes 2 seconds even if the setting is changed to 2 or more.).	0 to 9999 (1*)

Initialization of Set Value (CLEAR)

■ Overview

Selecting the following items enables the applicable data to be initialized.

When clear is executed, the setting items and numeric values for various parameters are set back to the factory setting values.

Item	Data to be initialized
TEL	Registered telephone number data (*1)
USSW SW	Contents registered in the user data and service mode #1 to #3 Memory management contents of the user data are not cleared. Image data stored in the memory is not cleared.
SRV SW	Contents of the user data and service mode #1 to #3, and #7
NCU	Contents of service mode #4
SRV DATA	Contents of the system dump list
REPORT	Contents of the communication management report
ALL	All Settings/Registration data (*1) except service mode #5 TYPE (*2)
COUNTER	The number of printed sheets, the number of read sheets
IPFAX	Contents of service mode IPFAX

*1: With models that can register information other than fax in destination, the telephone number data is not cleared even when TEL (service mode > FAX > Clear > TEL) or ALL (service mode > FAX > Clear > ALL) is executed.

To clear the data, execute the following service mode on the host machine.

COPIER > Function > CLEAR > ADRS-BK

*2: When service mode > FAX > Clear > ALL is executed, a value is registered in service mode > FAX > TYPE according to the location of the host machine (in the case of Japanese model, "STANDARD" is registered).

CAUTION:

If service mode > FAX > Clear > ALL is executed with a fax job waiting to be processed and the fax job is cancelled before the power is turned OFF and then ON, E674-0100 may occur when the power is turned OFF and then ON.

If E674-0100 occurs, the machine can be recovered by executing service mode > FAX > Clear > ALL again and then turning OFF and then ON the power.

In order to prevent the foregoing error, be sure to check for any remaining fax jobs before executing service mode > FAX > Clear > ALL. If there is a remaining job, cancel the job and then execute service mode > FAX > Clear > ALL.

Test Mode (TEST)

■ Overview

● Test Mode Construction

Sssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report
ISDNMOD2									
MODEM									
MODEM2									
FACULTY									
FACULTY2									
DATA SET									
ISDNMOD									

Using Test Mode

1. Press the desired item to highlight; then, press the OK key to bring up its screen.

The following table shows text mode items that are valid and invalid when a fax board is installed:

Yes: may be used

-: not used

Level 1	Level 2	Fax Board present
MODEM	RELAY-1	Yes
	RELAY-2	-
	FREQ	Yes
	G3TX	Yes
	DTMFTX	Yes
	TONERX	-
	V34G3TX	Yes
FACULTY	G3 4800TX	Yes
	SPEAKER	-
	DETECT1	-
	DETECT2	-
	DETECT3	-
	VOICETX	-
DATA SET		-
ISDNMOD		-
ISDNMOD2		-

CAUTION:

Do not use items in the table identified as "-."

■ MODEM Test

● Relay Test (RELAY-1)


Use it to see if the individual relays on the NCU board go on and off as expected.







Sssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report
<MODEM>	<RELAY-1>	<1/1>	<READY>						
CML	OFF								
P	OFF								
S	OFF								
H	OFF								
D	OFF								
R	OFF								

Using Text Mode

1. From the relays indicated on the screen, select the one you want to test; then, turn it off or on using the Up/Down key. (Some of the relays may not actually exist on the NCU board.)

• Frequency Test (FREQ)


Of the items indicated below, press one; in response, the DC circuit will be closed and the selected frequency will be transmitted using the tone transmission function of the modem. You can also monitor the transmission signal by listening to the sound generated by the speaker. To stop the operation and end test mode, press the  key.







Ssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report
				<MODEM>	<FREQ>	<1/1>		<READY>	
RBT									
462Hz									
1100Hz									
1300Hz									
1500Hz									
1650Hz									
1850Hz									
2100Hz									
									

CAUTION:

'RBT' is not currently supported.

• G3 Signal Transmission Test (G3 Tx)

Of the items indicated below, press one. In response, the DC circuit will be closed and the selected frequency will be transmitted using the G3 signal transmission function of the modem. You can also monitor the transmission signal by listening to the sound generated by the speaker. To stop the operation and end test mode, press the  key.

Ssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report
				<MODEM>	<G3TX>	<1/2>		<READY>	
300bps									
2400bps									
4800bps									
7200bps									
9600bps									
TC7200									
TC9600									
12000bps									
									

Sssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report
<MODEM>	<G3TX>	<2/2>	<READY>						
	14400bps								
	300-ALL0								
	300-ALL1								
	300-1:1								
	300-1:4								
	300-4:1								

CAUTION:

'300-ALL0' through '300-4:1' are not currently supported.

• DTMF Transmission Test

Of the items indicated below, press one; in response, the DC circuit will be closed and the selected DTMF signal will be transmitted using the DTMF transmission function of the modem. You can also monitor the transmission signal by listening to the speaker. To stop the operation and to end test mode, press the key.

Sssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report
<MODEM>	<DTMFTX>	<1/1>	<READY>						
	LONG	0 1 2 3 4 5 6 7 8 9 * #							

Using Text Mode

1. From the items indicated on the screen, select the item you want to test; then, press the key on keypad that corresponds to the DTMF signal to test.

CAUTION:

'SHORT' is not currently supported.

• V.34 G3 Signal Transmission Test (V34G3Tx)

Select the transmission speed you want to test, and then select a modulation speed (baud rate); in response, the V.34 G3 transmission signal will be transmitted to the telephone line terminal and the speaker. To stop the operation and to end test mode, press the key.


Sssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report
<MODEM>		<V34G3TX>		<1/1>		<READY>			
SPEED		33600bps							
3429baud									
3200baud									
3000baud									
2800baud									
2743baud									
2400baud									
←		→		▽		△		↵	
OK		↵							

Using Text Mode

1. Select 'SPEED', and then select the speed you want to test using the Up/Down key.
2. Select the baud rate you want to test.

■ Function Test

● 4800-bps Signal Transmission Test

The DC circuit will be closed, and a 4800-bps signal will be transmitted using the 4800-bps signal transmission function of the modem. You can also monitor the transmission signal by listening to the speaker. To stop the operation and end test mode, press the  key.

Sssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report
<FACULTY>		<G34800TX>		<1/1>		<READY>			
G34800TX									
←		→		▽		△		↵	
OK		↵							

● Service Report (REPORT)

■ System Data List

Use it to check the settings associated with the service soft switch and service parameters.

```

2003 09/02 TUE 12:00 FAX
*****
*** SYSTEM DATA LIST ***
*****
SERIAL NO          XXXXXXXX
#1 SSSW
SW01              ..... 00000000
SW02              ..... 10000000
SW03              ..... 00000000
SW04              ..... 10000000
SW05              ..... 00000000
SW06              ..... 10000000
SW07              ..... 00000000
SW08              ..... 00000000
SW09              ..... 00000000
SW10              ..... 00000000
SW11              ..... 00000000
SW12              ..... 00000011
SW13              ..... 00000000
SW14              ..... 00000000
SW15              ..... 00000000
SW16              ..... 00000000
SW17              ..... 00000000
SW18              ..... 00000000
SW19              ..... 00011000
SW20              ..... 00000000
SW21              ..... 00000000
SW22              ..... 00000000
SW23              ..... 00000000
SW24              ..... 00000000
SW25              ..... 00000000
SW26              ..... 00100000
SW27              ..... 00000000
SW28              ..... 00000000
SW29              ..... 00000000
SW30              ..... 00000000
SW31              ..... 00000000
SW32              ..... 00000000
SW33              ..... 00000000
SW34              ..... 00000000
SW35              ..... 00000000
SW36              ..... 00000000
SW37              ..... 00000000
SW38              ..... 00000000
SW39              ..... 00000000
SW40              ..... 00000000
SW41              ..... 00000000
SW42              ..... 00000000
SW43              ..... 00000000
SW44              ..... 00000000
SW45              ..... 00000000
SW46              ..... 00000000
SW47              ..... 00000000
SW48              ..... 00000000
SW49              ..... 00000000
SW50              ..... 00000000

#2 MENU
01:              ..... 0
02:              ..... 0
03:              ..... 0
04:              ..... 0
05:              ..... 0
06:              ..... 0
07:              ..... 10
08:              ..... 0
09:              ..... 0
10:              ..... 2

```

System Dump List

NOTE:

A system dump list is generated when you execute the following in service mode: FAX > Report > DUMP.

Use it to check the history of communications, both successful and error.

```

2013 04/05 FRI 12:00 FAX
*****
*** SYSTEM DUMP LIST ***
*****
SERIAL NO          XXXXXXXX
CLEAR DATE         2013 02/03 FRI 13:37
*1 TX = 1298
*2 A4 = 1302 B4 = 49 A3 = 27 LTR = 0 LGL = 0
*1 RX = 1572
*2 A4 = 1581 B4 = 59 A3 = 59 LTR = 0 LGL = 0
*3 NWSPD = 0
*3 33600 = 1 31200 = 0 28800 = 2986 26400 = 0 24000 = 0
21600 = 0 19200 = 0 16800 = 0 14400 = 0 12000 = 0
9600 = 0 7200 = 0 4800 = 0 2400 = 0
14400 = 83 12000 = 1 TC9600 = 0 TC7200 = 0
14400 = 0 14400 = 0
*4 9600 = 2 7200 = 0 4800 = 4 2400 = 0
STD = 60 FINE = 2839 SUPER = 107 ULTRA = 71
*5 MH = 7 MR = 32 MMR = 9 JBIG = 3029 JPEG = 0
*6 G3 = 37 ECM = 3040 G4 = 0 IPECM = 0 IPG3 = 0
*7 #000 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
0 0 0 2 0 0 0 0
0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0
0 0 0 0 22 0 0 0
0 0 0 0

```

- *1: RX, total reception number of times; TX, total transmission number of times.
- *2: number of pages sent/received according to original size.
- *3: number of pages sent/received in connection with different modem speeds (NWSPD : For IPFAX communication count).
- *4: number of communication pages by resolution(Standard, Fine, Super Fine, Ultra Fine).
- *5: number of pages sent/received in connection with different coding methods.
- *6: number of transmissions/receptions according to mode.
- *7: number of occurrences according to error code.

Indication sample



It provides error information on the 3 most recent communications.

```

2003 0902 TUE 12:00 FAX                               0001
*1----- #1 LATEST                                     #000
*2----- START TIME                                0902 10:00
*3----- OTHER PARTY                               12345678
*4----- MAKER CODE                                10001000
*5----- MACHINE CODE                              0100001 00000000
          RCV VS FRAME                               E0 81 85 D4 90 7E 00 00 <-Not displayed when IPFAX is enabled
          SYMBOL RATE                               3429 baud
          DATA RATE                                28800 bps [V.34]
          TX LVL REDUCTION                          0
          ERR ABCODE                                00
          ERR SECTXB                                00
          ERR SECRXB                                00
*6----- Rx : (bit 1)                               00000100 01110111 01011111 00100011 00000001 10101001 00000001 00000001 (bit 64)
          (bit 65)                                00000001 00000001 00000100 00000000 00000000 00000000 00000000 00000000 (bit 128)
*7----- Tx : (bit 1)                               00000000 01000010 00011111 00100001 00000001 00000001 00000001 00000001 (bit 64)
          (bit 65)                                00000001 00000001 00000100 00000000 00000000 00000000 00000000 00000000 (bit 128)

Rx : NSF CSI DIS          CFR          MCF          MCF
Tx :          NSS TSI DCS    PIX-288 PPS-NUL    PIX-288 PPS-NUL    PIX-288 PPS-NUL

#2                                     #000
          START TIME                                0902 09:30
          OTHER PARTY                               12345678
          MAKER CODE                                10001000
          MACHINE CODE                              0100001 00000000
          RCV VS FRAME                               E0 81 85 D4 90 7E 00 00 <-Not displayed when IPFAX is enabled
          SYMBOL RATE                               3429 baud
          DATA RATE                                28800 bps [V.34]
          TX LVL REDUCTION                          0
          ERR ABCODE                                00
          ERR SECTXB                                00
          ERR SECRXB                                00

Rx : (bit 1)                               00000100 01110111 01011111 00100011 00000001 10101001 00000001 00000001 (bit 64)
          (bit 65)                                00000001 00000001 00000100 00000000 00000000 00000000 00000000 00000000 (bit 128)
Tx : (bit 1)                               00000000 01000010 00011111 00100001 00000001 00000001 00000001 00000001 (bit 64)
          (bit 65)                                00000001 00000001 00000100 00000000 00000000 00000000 00000000 00000000 (bit 128)

Rx : NSF CSI DIS          CFR          MCF          MCF
Tx :          NSS TSI DCS    PIX-288 PPS-NUL    PIX-288 PPS-NUL    PIX-288 PPS-NUL

#3 OLDEST                               #000
          START TIME                                0902 09:00
          OTHER PARTY                               12345678
          MAKER CODE                                10001000
          MACHINE CODE                              0100001 00000000
          RCV VS FRAME                               E0 81 85 D4 90 7E 00 00
          SYMBOL RATE                               3429 baud
          DATA RATE                                28800 bps [V.34]
          TX LVL REDUCTION                          0
          ERR ABCODE                                00
          ERR SECTXB                                00
          ERR SECRXB                                00
    
```

- *1: service error code.
- *2: START TIME, date and time (in 24-hr notation).
- *3: OTHER PARTY, telephone number sent by the other party.
- *4: MAKER CODE, manufacturer code.
- *5: MACHINE CODE, model code.
- *6: bit 1 through bit 128 of DIS, DCS, or DTC that has been received.
- *7: bit 1 through bit 128 of DIS, DCS, or DTC that has been transmitted.
- *8: RX, procedural signal received; TX, procedural signal transmitted.

■ Error Transmission Report

An error transmission report is an error transmission report together to which a service error code and error dump list is attached.

2003 09/02 TUE 12:00 FAX

0001

```

*****
*** FAX ERROR TX REPORT ***
*****
TX FUNCTION WAS NOT COMPLETED

JOB NO.                1269
DESTINATION ADDRESS    12345678
PSWDSUBADDRESS
DESTINATION ID
ST. TIME              09/02 09:00
USAGE T               01'50
PGS.                  1
RESULT                NG
                     1      ##750
    
```

```

START TIME          09/02 09:00
OTHER PARTY         12345678
MAKER CODE          10001000
MACHINE CODE        0100001 00000000
RCV VS FRAME        E0 81 85 D4 90 7E 00 00
SYMBOL RATE         3429 baud
DATA RATE           28800 bps [V.34]
TX LVL REDUCTION    0
ERR ABCODE          92
ERR SECTXB          8A
ERR SECRXB          80
    
```

```

Rx : (bit 1) 00000100 01110111 01011111 00100011 00000001 10101001 00000001 (bit 56)
           (bit 57) 00000001 00000001 00000100 00000000 00000000 (bit 96)
Tx : (bit 1) 00000000 01000010 00011111 00100001 00000001 00000001 00000001 (bit 56)
           (bit 57) 00000001 00000001 00000100 00000000 00000000 (bit 96)
    
```

Rx : NSF CSI DIS	CFR	MCF	MCF
Tx : NSS TSI DCS	PIX-288 PPS-NUL	PIX-288 PPS-NUL	PIX-288 PPS-NUL
Rx : MCF	MCF	MCF	
Tx :	PIX-288 PPS-NUL	PIX-288 PPS-EOP	DCN

9

Installation

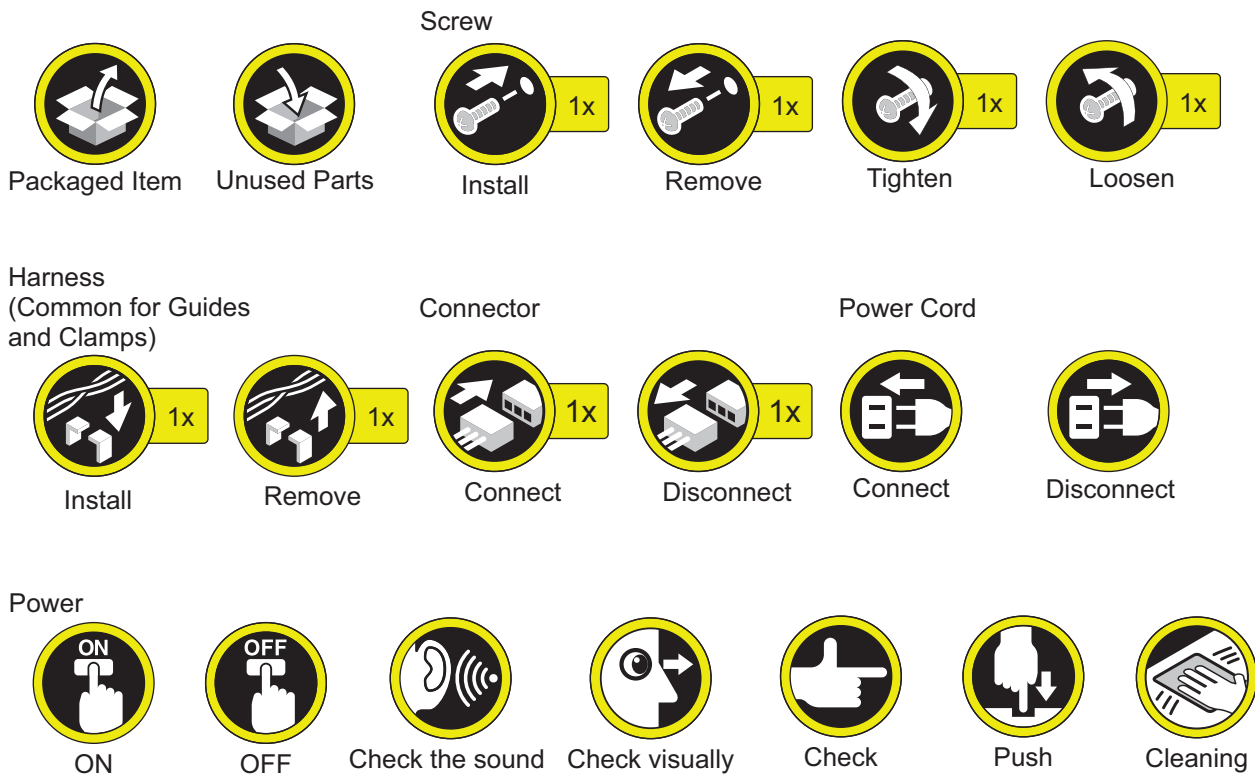
How to Utilize This Installation	
Procedure.....	1308
Checking before Installation	1309
Installation of Host Machine	1313
When Relocating the Machine.....	1354
Printer Cover-J1.....	1356
Platen Cover Type W.....	1361
Reader Heater Unit-J3.....	1366
Paper Deck Heater Unit-C1.....	1379
Inner 2-Way Tray-J1.....	1392
Copy Tray-J2.....	1395
Utility Tray-B1.....	1398
Copy Card Reader-F1.....	1402
Serial Interface Kit-K3, Copy Control	
Interface Kit-A1.....	1412
Document Scan Lock Kit-B2.....	1417
Voice Operation Kit-D1.....	1421
Voice Guidance Kit-G1.....	1429
IC Card Reader Box-C1/C2.....	1438
Connection Kit-A1/A2/A3 for Bluetooth	
LE	1445
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Super G3 FAX Board-AS2.....	1544
Super G3 2nd Line Fax Board-AS1.....	1549
Super G3 2nd Line Fax Board-AS2.....	1562
Super G3 3rd/4th Line Fax Board-AS1.....	1573
Super G3 3rd4th Line Fax Board-AS2.....	1581

How to Utilize This Installation Procedure

Symbols

The frequently-performed operations are described with symbols in this procedure.



Checking before Installation

Following shows requirements for the installation site.

Therefore, it is desirable to see the installation site in advance before bringing in the machine to the user's site.

Points to Note at Installation

CAUTION:

Marked portion

When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.



Checking Power Supply

1. Be sure to connect the power plug exclusively to an outlet that compiles with the following.

- USA:
 - 120 to 127V +/-10% / 11.5A (image RUNNER ADVANCE C5560i III/C5550i III)
 - 120 to 127V +/-10% / 10A (image RUNNER ADVANCE C5540i III/C5535i III)
- EUR/Asia/Oce: 220 to 240V +/-10%, 6A
- TW:
 - 110-127V +/-10%, 11.5A (image RUNNER ADVANCE C5560i III/C5550i III)
 - 110-127V +/-10%, 10A (image RUNNER ADVANCE C5540i III/C5535i III)
- CHN: 220V +/-10%, 6A

2. Install this machine near the power outlet and leave sufficient space around the power plug so that it can be unplugged easily in an emergency.

Checking the Installation Environment

1. The environment of the installation site must be in the range as shown below. Avoid installation near the faucet, water boiler, humidifier or refrigerator.

- Guaranteed range for operation/image Temperature: 10.0 to 30.0 deg C, Humidity: 20 to 80%

2. The machine must not be installed near a source of fire or in an area subject to dust or ammonium gas. If the area is exposed to direct rays of the sun, provide curtains to the window.

3. Be sure to provide adequate ventilation of the room to keep the work environment comfortable. Room odor can be bothering when running the machine for a long time in a poorly-ventilated room although the ozone amount generated while running this equipment does not harm human health.

Points to Note before Installation

When installing the machine, be sure to note the following points.

1. When the machine is moved from a cold location to a warm location, condensation may occur resulting in water drops on the metal surfaces. Use of the host machine when there is condensation may result in image failure. After moving the machine from a cold location to a warm location, leave it unpacked for at least 2 hours or more to let it warm up to room temperature before installation.

- The host machine weighs maximum 139 kg. It is recommended to lift it with 4 people or more. However, if there is a standard to handle a heavy load in each sales company, follow it for operation. Also, make sure to lift the machine with keeping it level at operation.

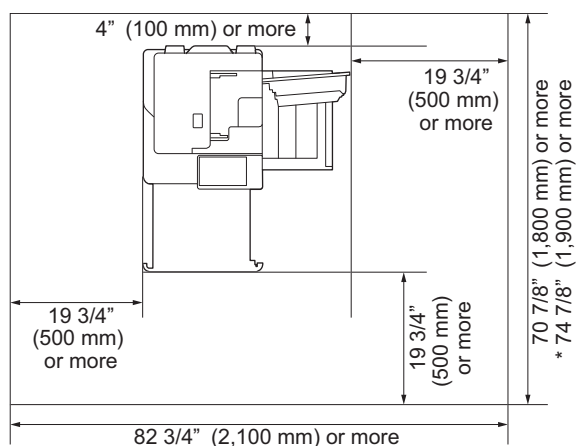
Points to Note When Moving This Host Machine

When moving this host machine after having unpacked it, be careful by placing a plate, etc. on areas with steps to prevent the casters from hitting those steps.

If the casters hit a step, the casters or the base plate may be deformed.

Checking Installation Space

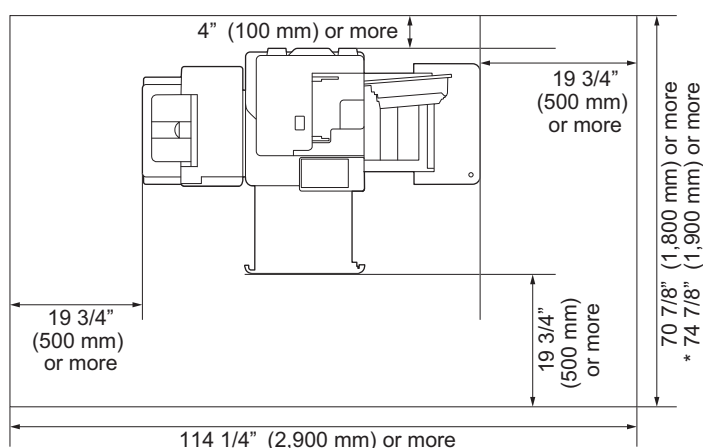
- Be sure that the feet of the machine are properly set. In addition, be sure to keep the machine horizontal.
- Be sure to keep 100 mm or more distance from the wall to make enough room for performing the operation.
 - When option is not installed



NOTE:

*: For the Duct Model (EUR only)

- Booklet Finisher-Y1 + Paper Deck Unit-F1 is installed



NOTE:

*: For the Duct Model (EUR only)

- To install the host machine, install it in a well-ventilated place. Especially when there are multiple host machines, be sure to locate the machine where the machine is free from direct exhaust of other machines. Be sure to keep the machine away from the air-inlet duct which is used for ventilation of the room.

Combination Table of Accessory Installation

NOTE:

- The following table shows the combination of options installed of the host machine. Before installing the following options, refer to the table to check the combination of options.
- When using options and the Copy Card Reader together, install the Copy Card Reader first.

	Copy Card Reader	Voice Operation Kit	Voice Guidance Kit	Utility Tray	Serial Interface Kit	Copy Control Interface Kit
Copy Card Reader	-	Yes	Yes	Yes	No	No
Voice Operation Kit	Yes	-	No	No	Yes	Yes
Voice Guidance Kit	Yes	No	-	No	Yes	Yes
Utility Tray	Yes	No	No	-	Yes	Yes
Serial Interface Kit	No	Yes	Yes	No	-	No
Copy Control Interface Kit	No	Yes	Yes	No	No	-

Yes: installation is available No: installation is not available

Host Machine Installation Procedure

1. Points to Note at Installation
2. Checking before Installation
3. Unpacking
4. Checking the Contents
5. Removing the Packaging Materials
6. Installing the Scanner
7. Installing the Drum Unit
8. Setting the Environment Heater Switch
9. Installing the IC Card Reader (EUR Only)
10. Setting the Cassette
11. Installing the Filter (Duct Model for EUR Only)
12. Installing the Cleaning Tool
13. Securing the Host Machine
14. Turning the Main Power ON / Setting the Toner Container
15. Host Machine Settings (Starting the Setup Guide)
16. Informing the System Administrator That Installation Is Complete
17. Registration of Installation Date Information
18. Other Installations
19. Checking the K paper settings (CHINA Only)
20. Installing the Envelope Attachment A
21. Installing the Envelope Attachment B
22. Checking after the Installation

- 23. Auto Adjust Gradation
- 24. Auto Correct color Tone Settings (Register Correction Pattern)
- 25. Execute the ITB Equilibrium Position Detection
- 26. Adjusting Image Position
- 27. Checking Network Connection
- 28. Troubleshooting of Network
- 29. Operation when using uniFLOW Online

Installation of Host Machine

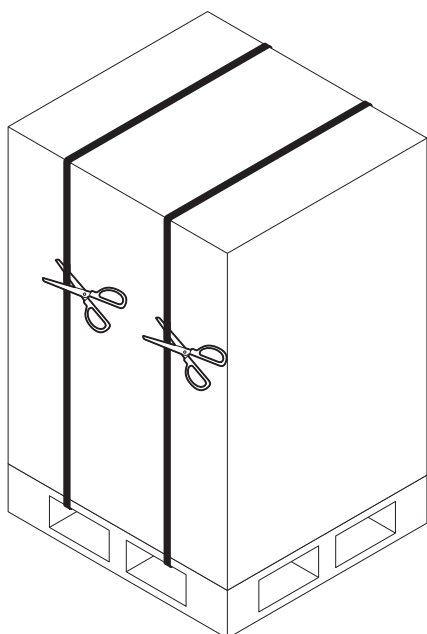
Unpacking

⚠ CAUTION:

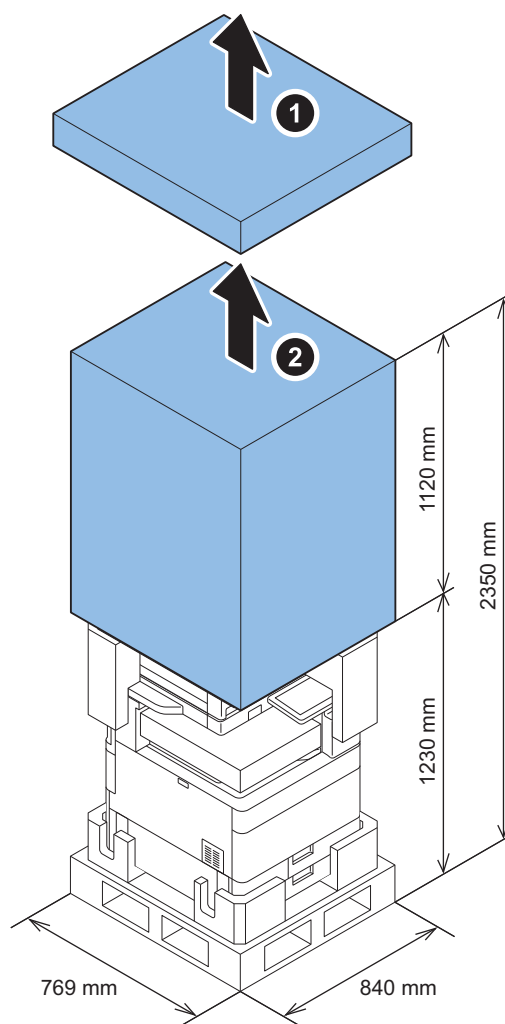
Be careful not to perform the following work as it may cause operation failure.

- Letting the bottom of the host machine interfere with packaging material when lifting the host machine down from the pallet.
- Placing the host machine on uneven surface.
- Dragging the host machine while its bottom is interfering with soft material on the floor such as carpet or cardboard.

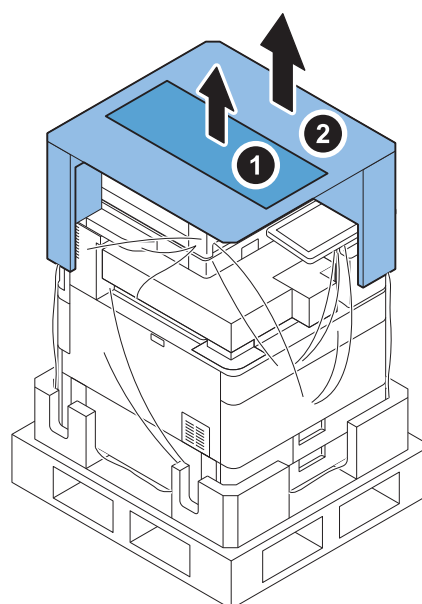
□
1.



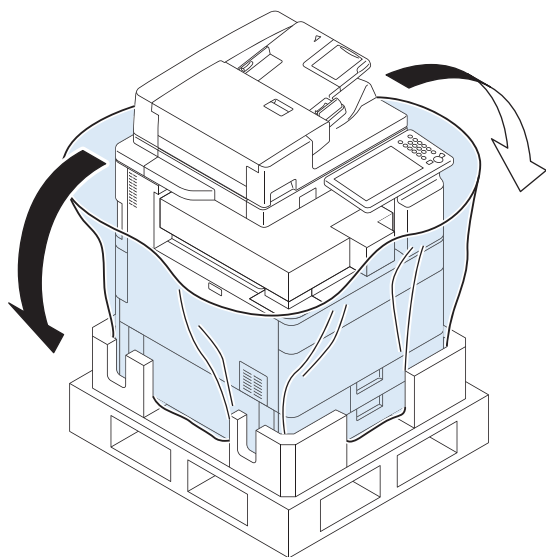
□
2.



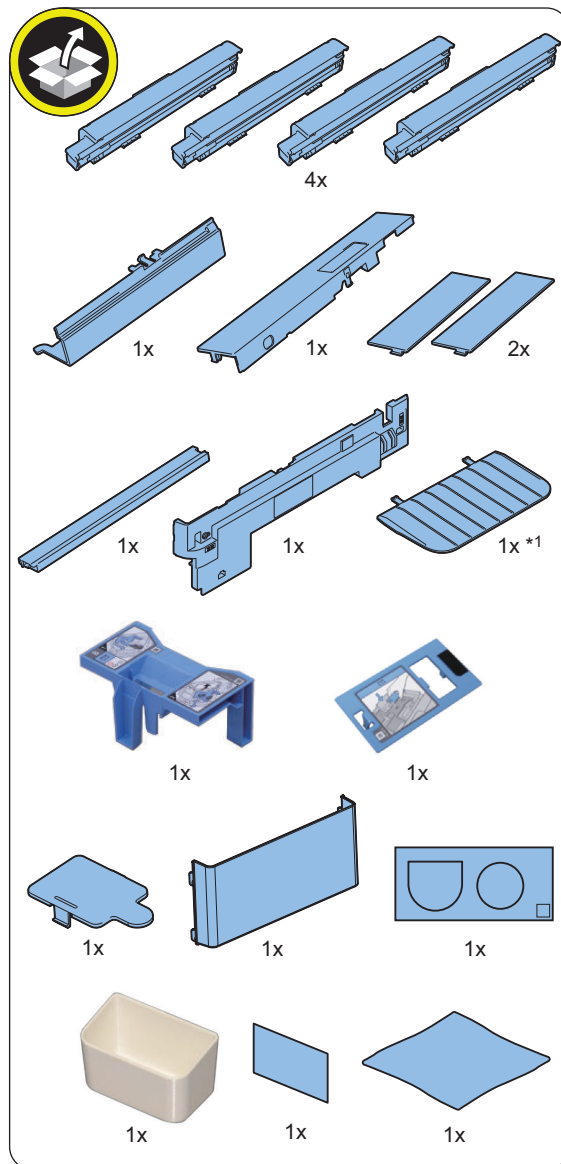
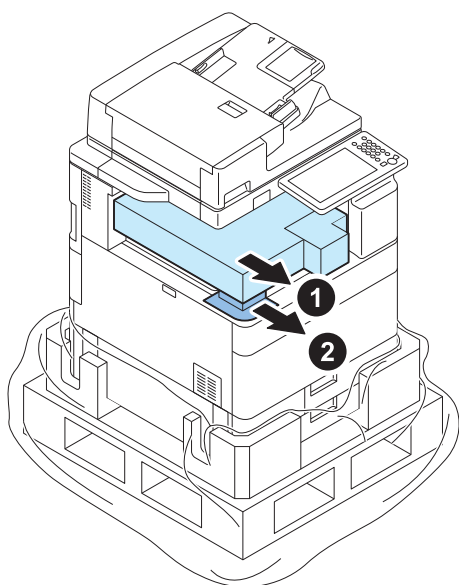
□
3.



□
4.



□
5.



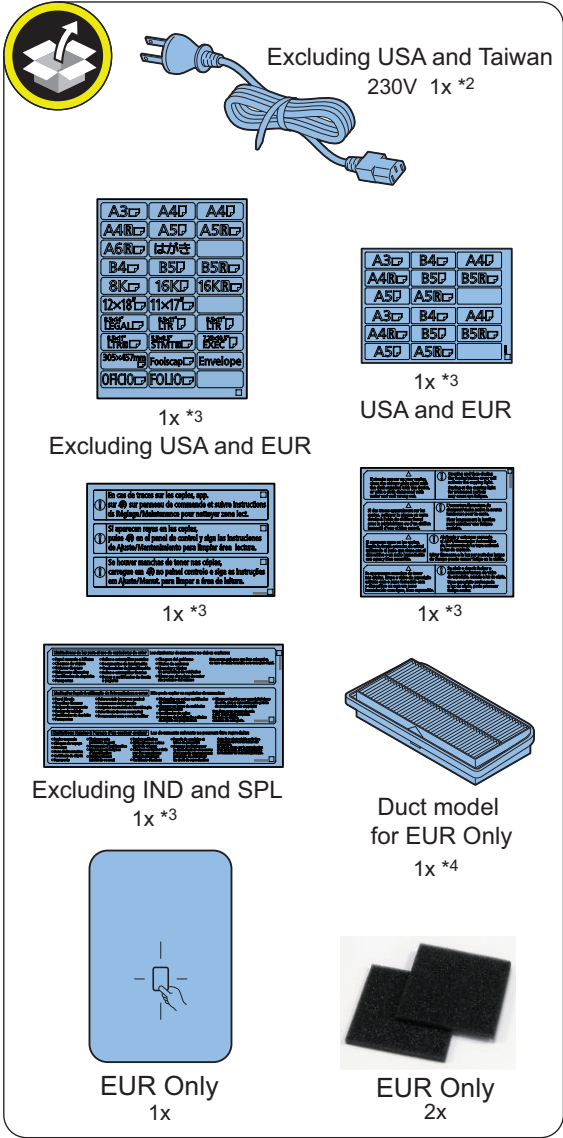
● Checking the Contents

CAUTION:

The following parts contained in the package cannot be used in combination with these options.

*1: Reverse Trailing Edge Guide

- Inner 2way Tray
- Inner Finisher
- Staple Finisher
- Booklet Finisher



NOTE:

*2: The connector has a different shape depending on locations. Use the correct power cord to match the location/area of installation. Make sure not to leave unused power cord at the site.

*3: Number of labels attached to the sheet varies according to location/area.

*4: Make sure to install the Filter. Do not unpack the Filter until just before installing the Filter.

<Others>

- Including guides

Removing the Packaging Materials

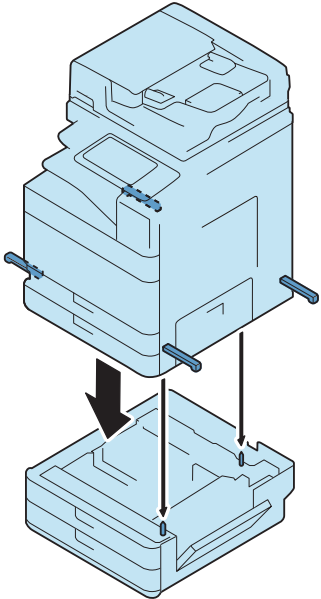
NOTE:

- When installing the Cassette Pedestal, be sure to place the host machine on the Cassette Pedestal. (Refer to cassette pedestal Installation Procedure)
- In the following procedure, pictures of a host machine with the Cassette Feeding Unit are used, but the procedure is the same.
- Although pictures or illustrations used for explanation may differ from the actual things, the procedure is the same.

1.

CAUTION:

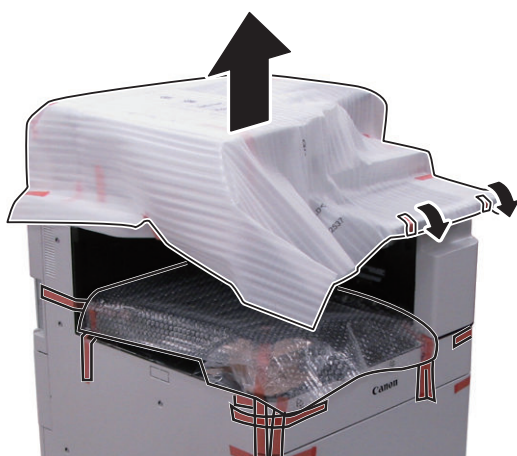
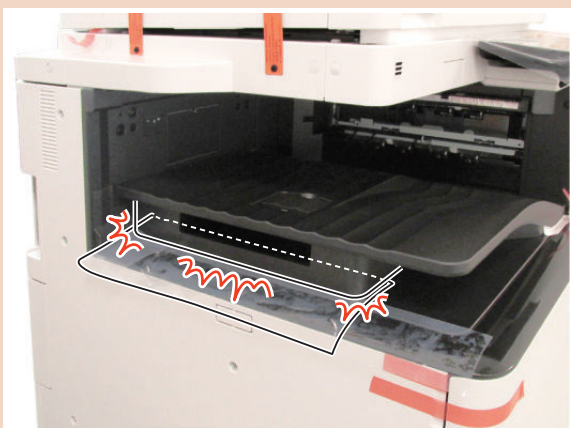
- The host machine weighs maximum 139 kg. It is recommended to lift it with 4 people or more. However, if there is a standard to handle a heavy load in each sales company, follow it for operation. Also, make sure to lift the machine with keeping it level at operation.
- Be sure to keep the machine leveled when lifting it.



□
2.

NOTE:
Remove the attached tapes and packaging materials.

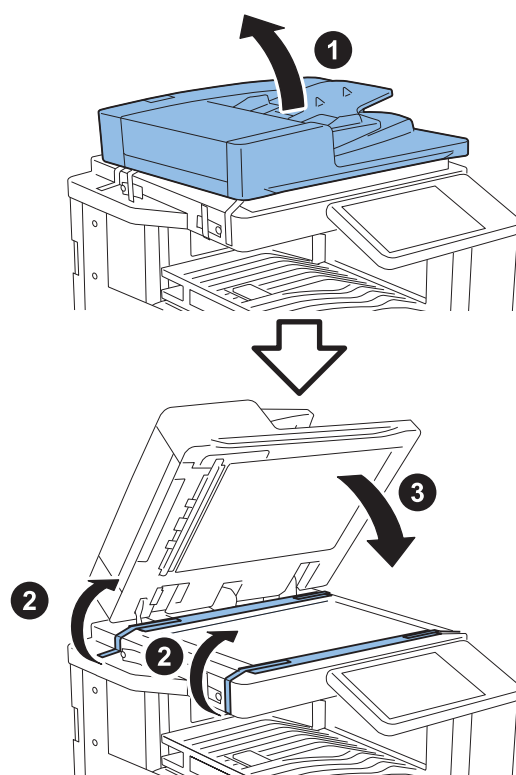
- CAUTION:**
- Remove the tape of Front Cover in step 7.
 - Be sure not to remove the Scanner System Fixation Screw before installation of the scanner.
 - Make sure not to break the Protection Sheet [A] when removing it, as it stretches under the Delivery Tray.



□
3.

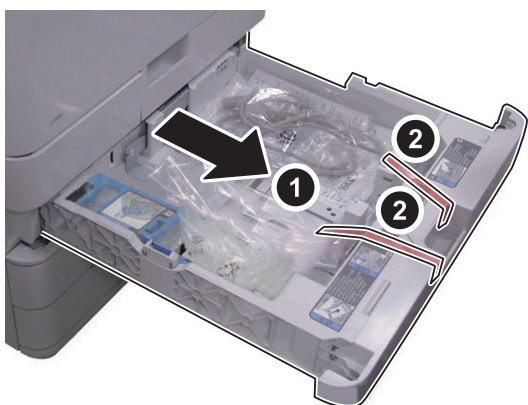
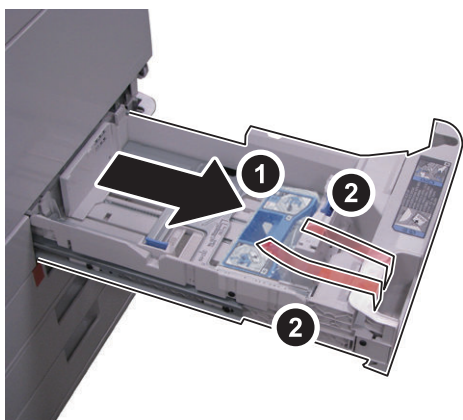


□
4.

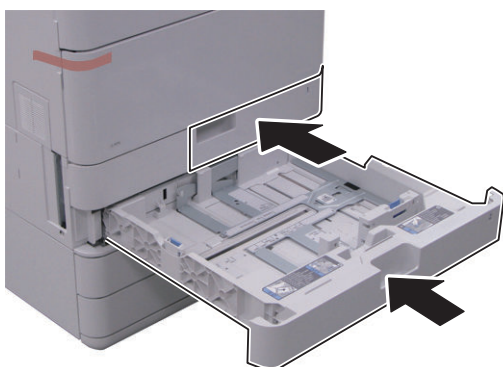


□
5.

NOTE:
Remove the attached tapes and packaging materials.



□
6.

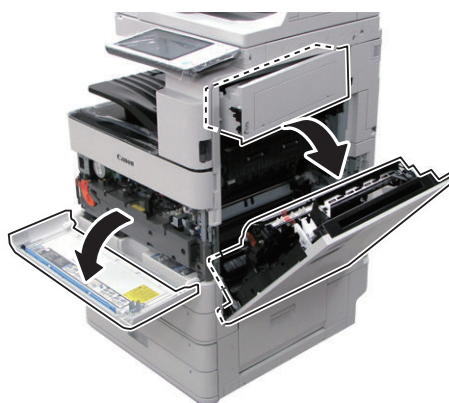


□
7.

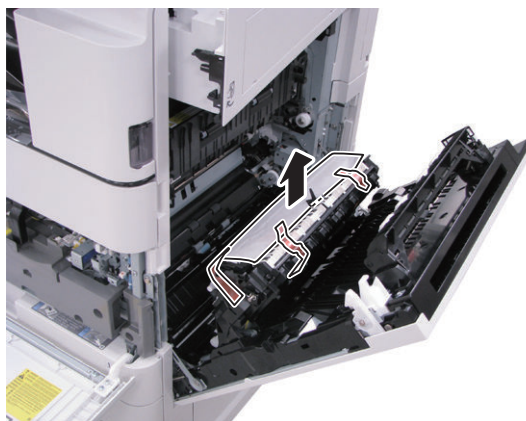
NOTE:
The Front Cover opens when the tape of Front Cover is removed.



□
8.

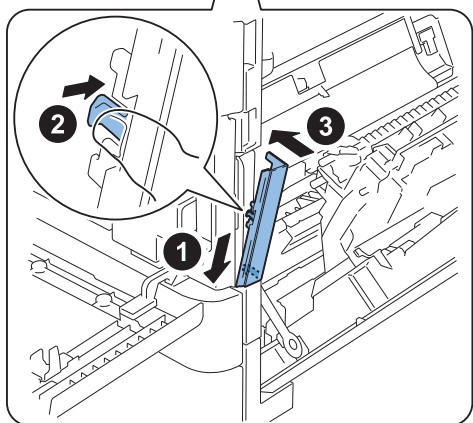
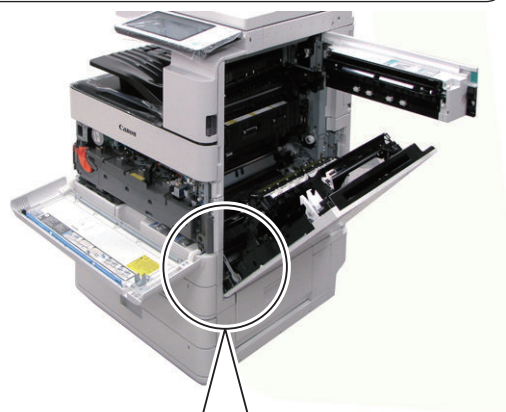
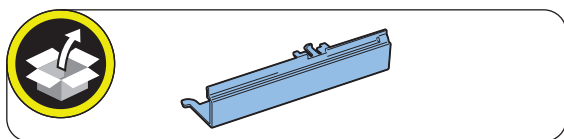


□
9.



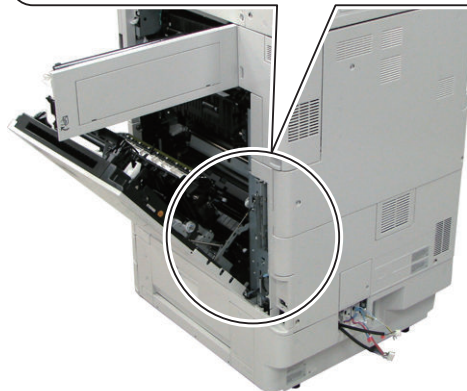
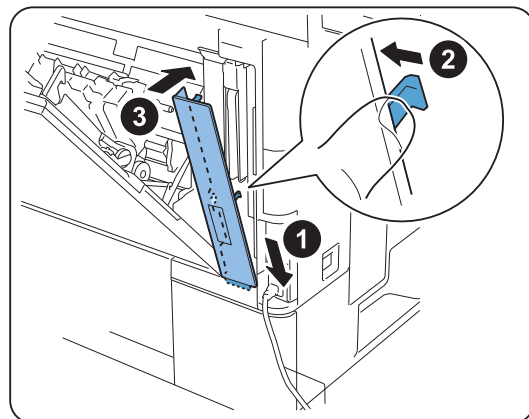
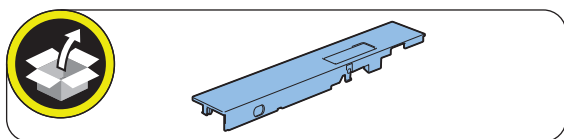
□
10.

NOTE:
Install while pressing the claw of Right Front Cover.

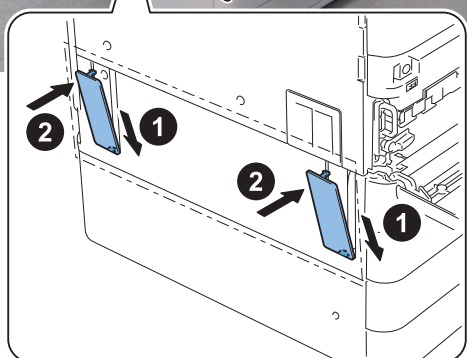
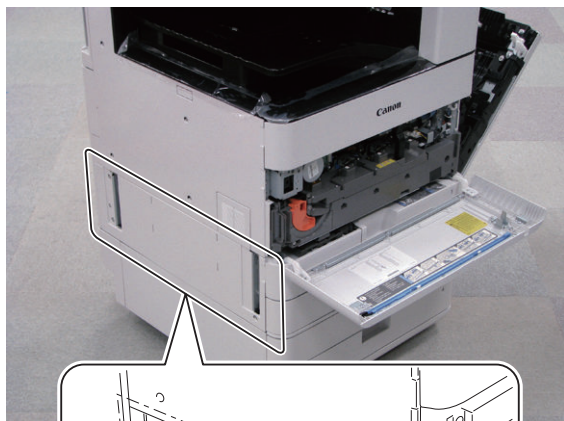
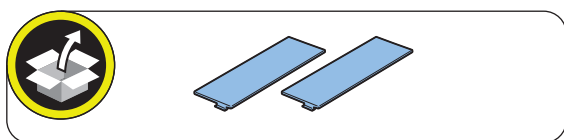


□
11.

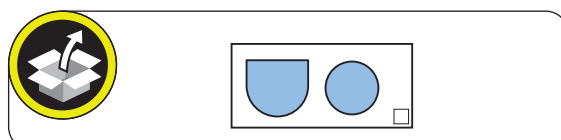
NOTE:
Install while pressing the claw of Right Rear Cover.



□
12.



□
2.



● Installing the Scanner

□
1.

NOTE:

Be sure to keep the Scanner System Fixation Screws in a safe place for moving the machine.



Installing the Drum Unit

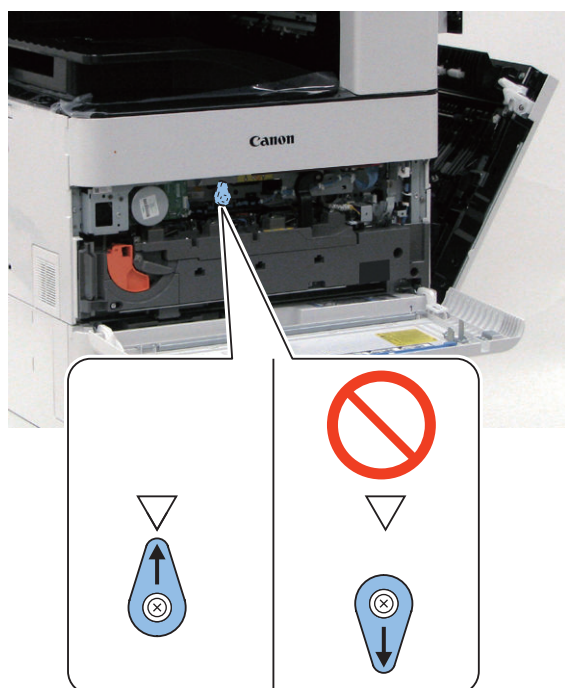
CAUTION:

Make sure to use a new Drum Unit.
If not, this may cause the control of the machine to not operate properly.

1.

NOTE:

- Check that the ITB Sub Pressure Release Lever is positioned in the direction of the arrow. If not, adjust its position by turning it clockwise.
- Although pictures or illustrations used for explanation may differ from the actual things, the procedure is the same.



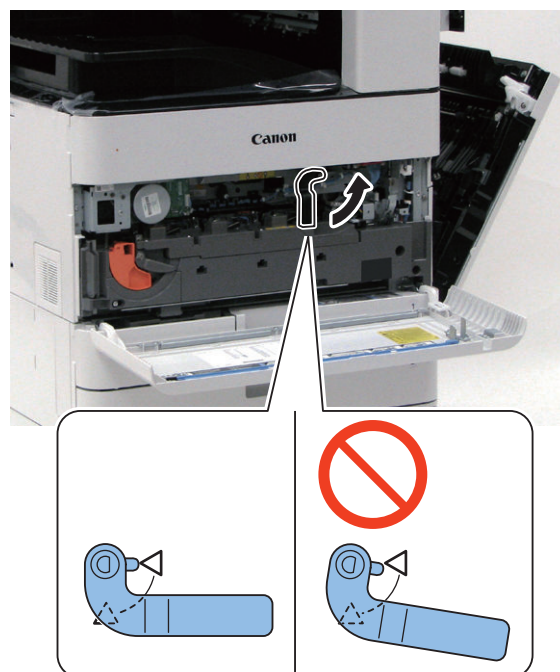
2.

CAUTION:

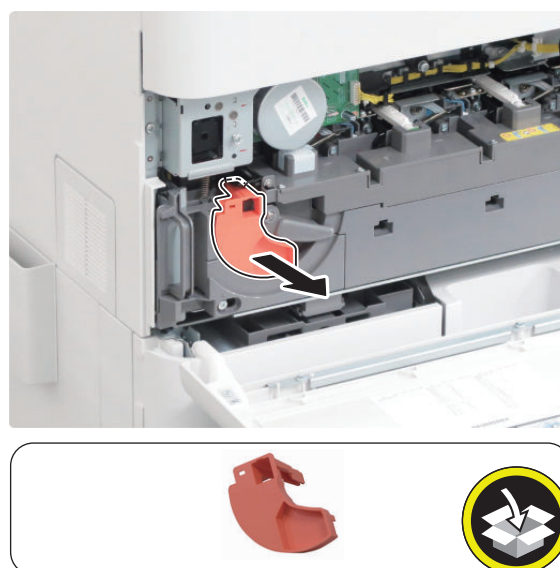
Make sure that the Right Lower Cover is open before releasing the pressure.

NOTE:

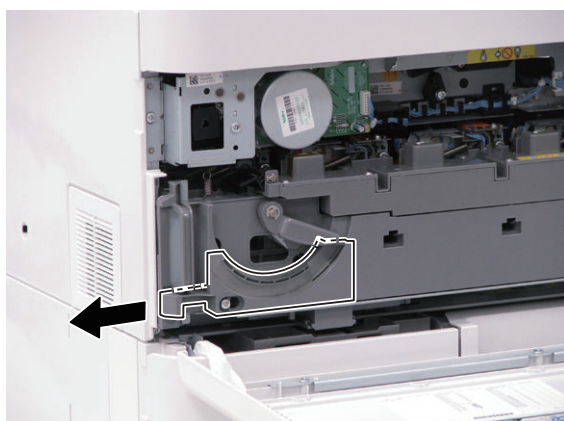
Turn the ITB Pressure Release Lever in the direction of the arrow until the protrusion is aligned with the triangle mark on the plate to release the pressure.



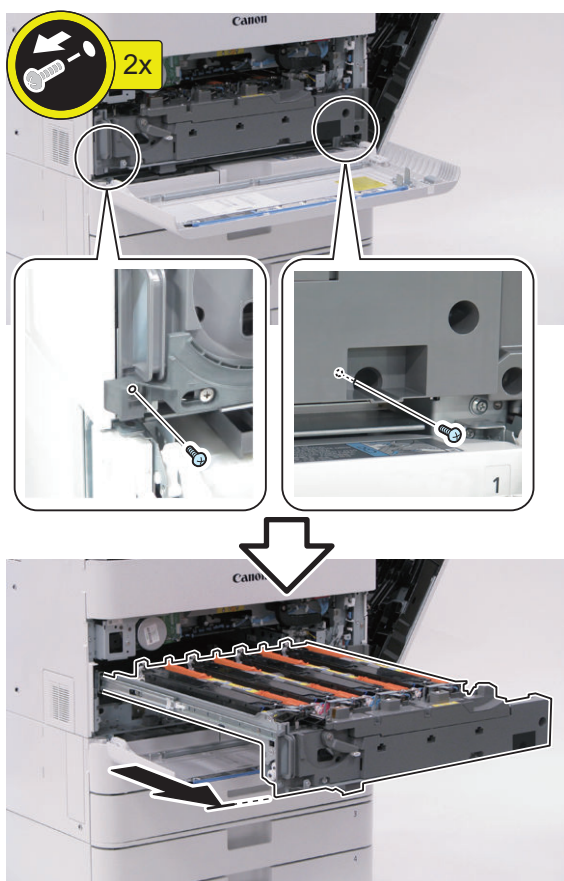
3.



□
4.



□
5.

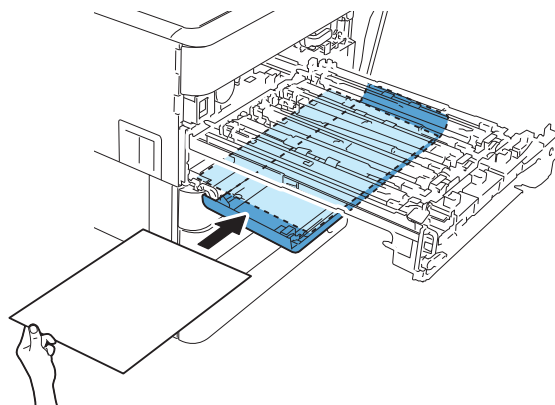


NOTE:
The removed screws will be used in step 16.

□

6. <For India only>

NOTE:
Place a sheet of paper on the Front Cover.

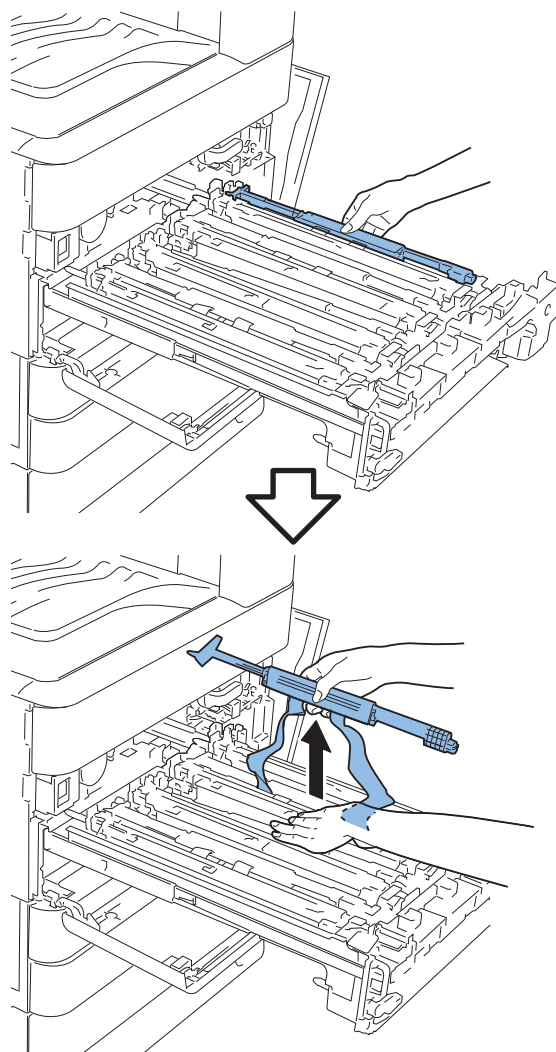
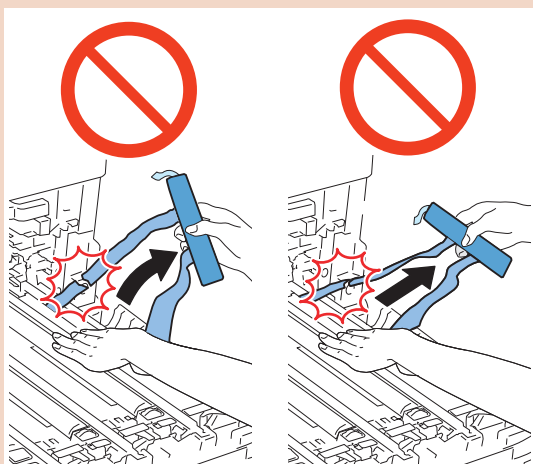


□
7.**CAUTION:**

Points to Note when Removing the Dummy Drum
When removing the Dummy Drum, be sure to lift it slowly and vertically.

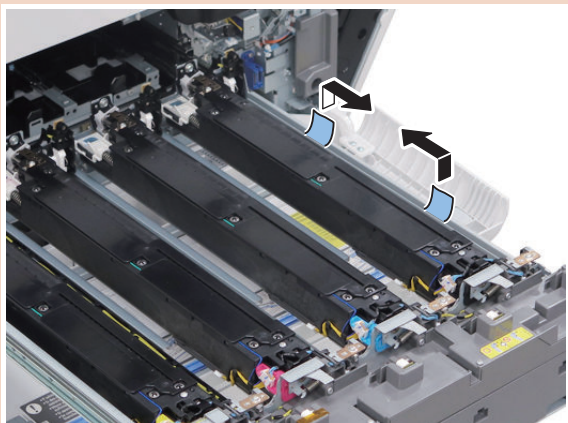
If lifting it in an oblique direction, the Seal on the Developing Assembly is stressed, and may cause tear of the seal.

Perform the removal procedure for each color.

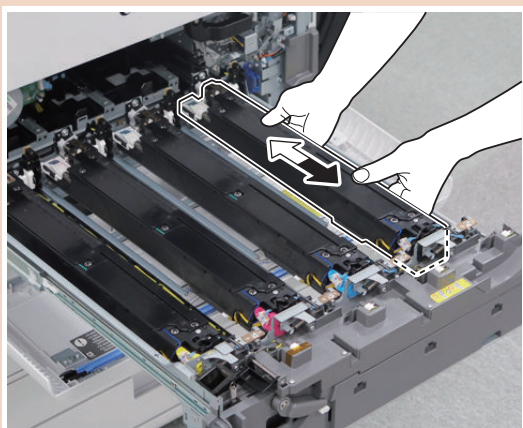


CAUTION:

If the Developing Seal is torn, remove the torn seal by pulling the end of it in the direction of the arrow. At that time, be careful not to leave the torn seal in the Developing Assembly.

**CAUTION:**

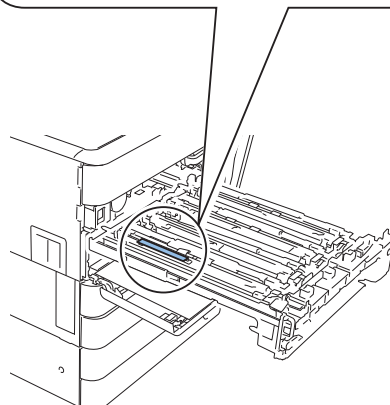
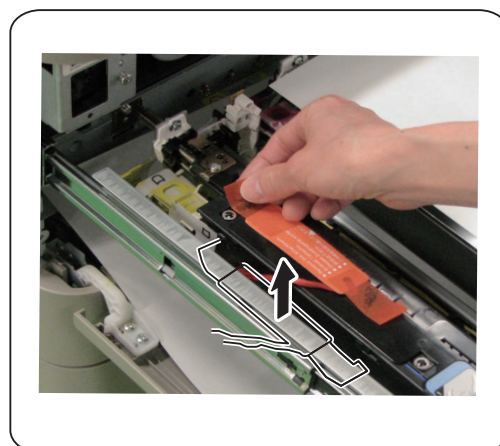
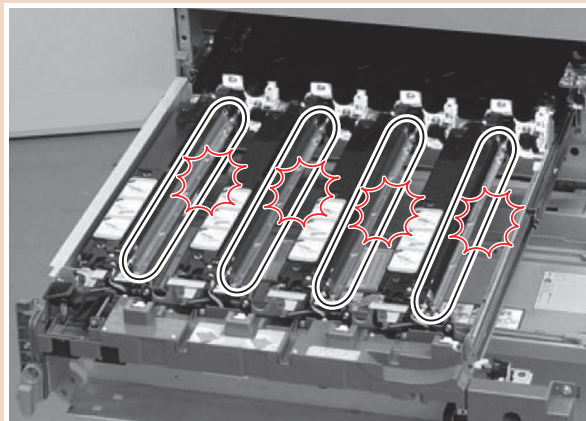
- To check that the Developing Assembly is properly installed, move the Developing Assembly toward the front and rear by hand. If it won't move at all, check again that the Developing Assembly is properly installed.
- Be sure not to touch the Developing Cylinder during the work.

**8. <For India only>****NOTE:**

Remove the tape from the Developing Assembly.

CAUTION:

Do not touch the sleeve.

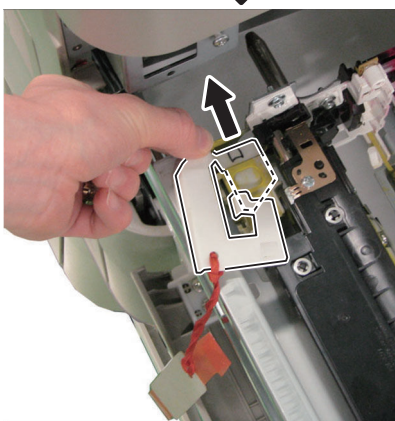
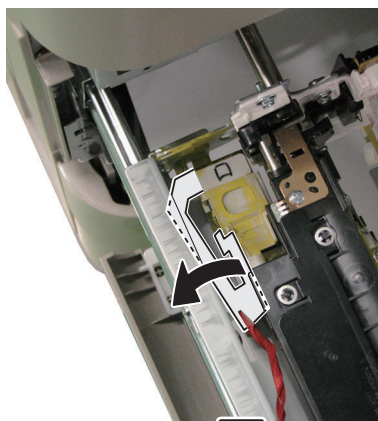


□

9. <For India only>

NOTE:

Remove the Plastic Film Sheet from the Developing Assembly.

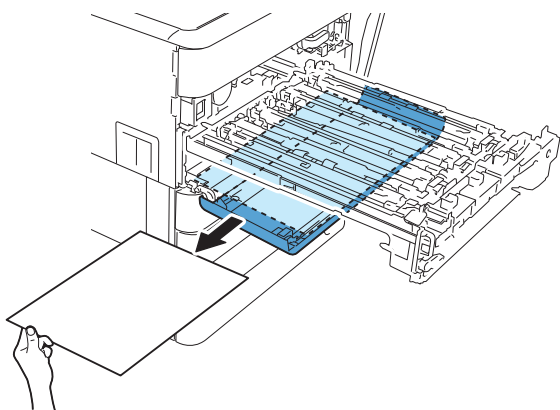


□

10. <For India only>

NOTE:

Remove the paper placed in step 6.



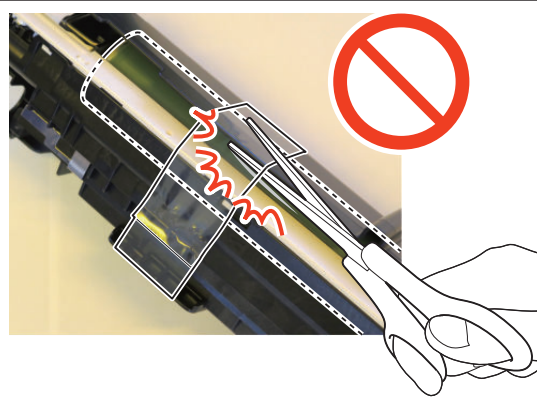
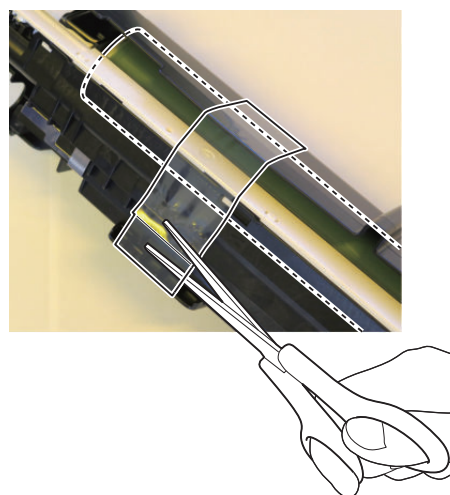
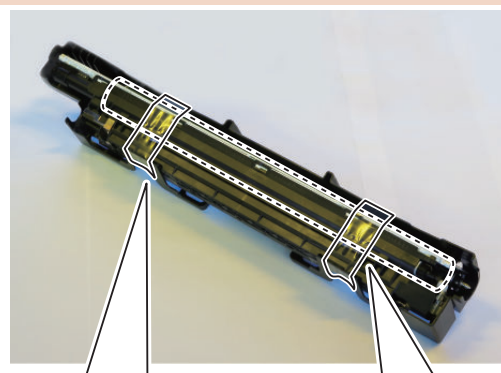
□

11. Unpack the Drum Unit, and remove the Packaging Film.

CAUTION:

Points to Note when Unpacking the Drum Unit

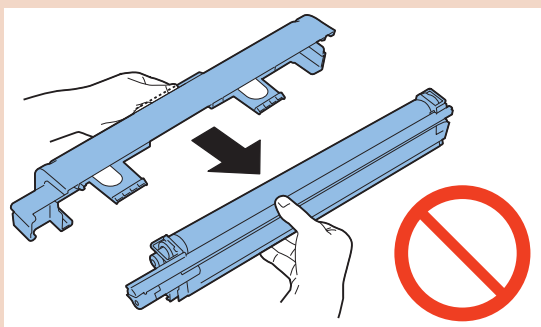
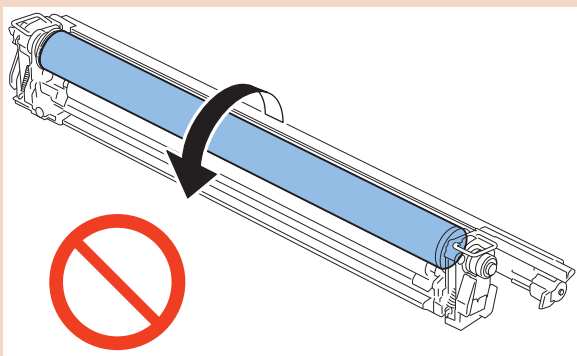
- When removing the Packaging Film using a tool, refer to the position shown in the figure below and be sure to prevent the tool from contacting the drum during the work.
- Be sure not to damage the drum and its surroundings.



CAUTION:

Points to Note at Drum Unit Installation

- Be sure not to rotate the Drum counterclockwise while taking it out from the Container Box, removing the Drum Cover and installing to the main body. The Scoop-up Sheet may be flipped, causing toner scattering.
- Be sure not to reinstall the removed Drum Cover; otherwise, the Scoop-up Sheet may be flipped, causing toner scattering.

**NOTE:**

Step 12 to 14 is to install the Drum Unit of each color.

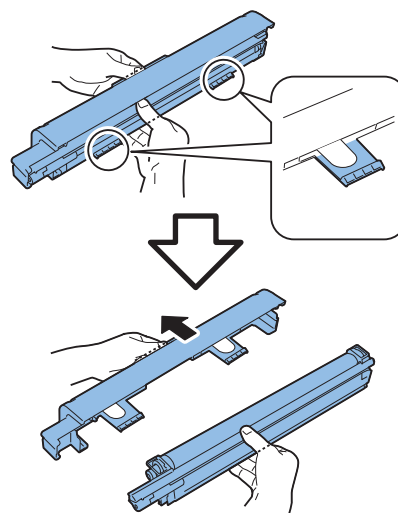
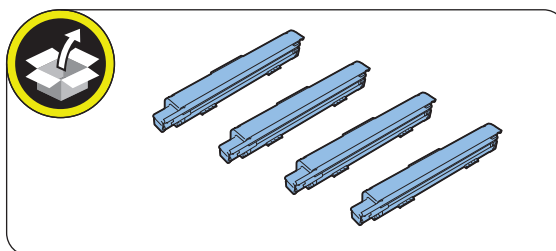


12.

CAUTION:

The joint between the Drum Unit and the cover might be stiff.

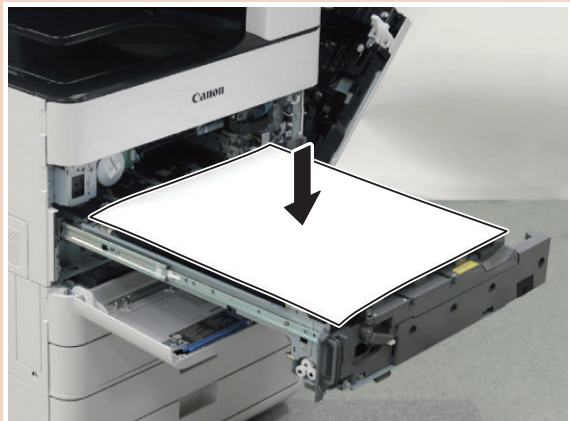
- Be careful not to hit the cover against the Drum area.
- Do not touch the Drum area.
- Be careful not to drop the Drum Unit.



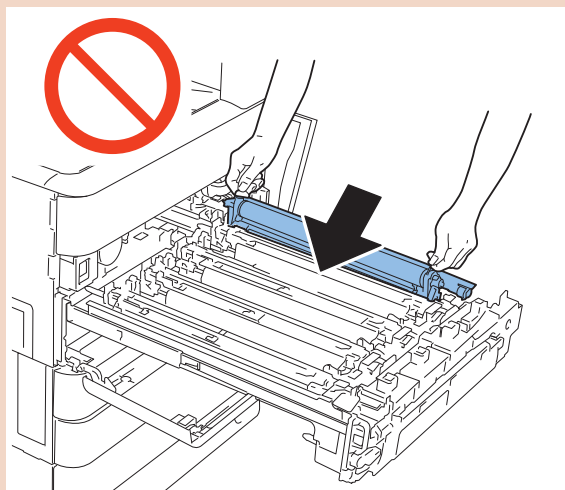
CAUTION:

Points to Note when Installing the Drum Unit

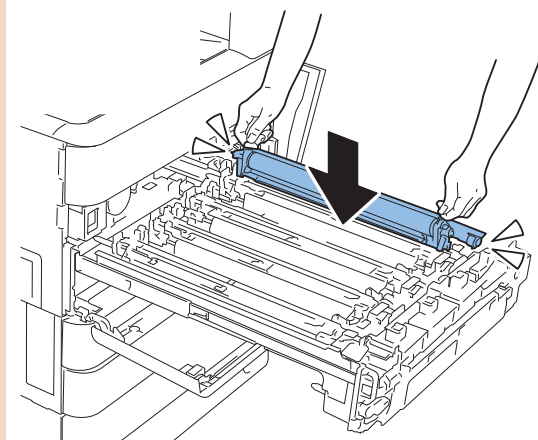
1. Place 5 or more sheets of paper on the order of installation of Drum Unit to block the light to the Drum Unit.



2. If pushing it in the angle, the shutter may break. Thus make sure to install it from just above.



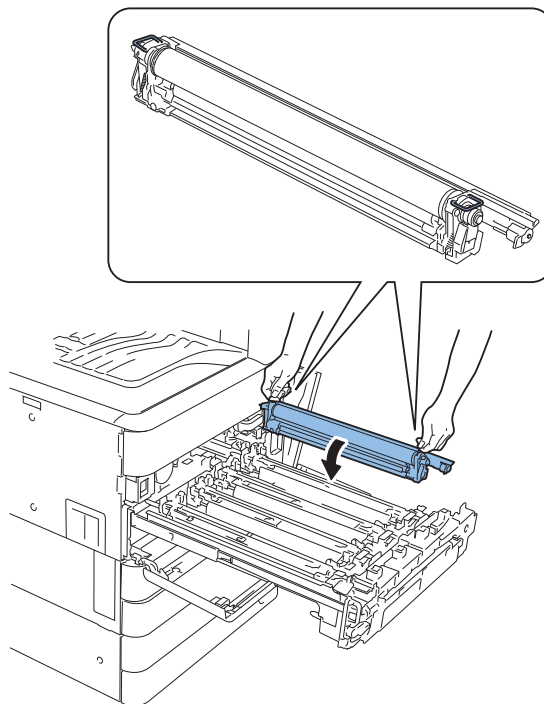
Make sure to install it from just above



□
13.

NOTE:

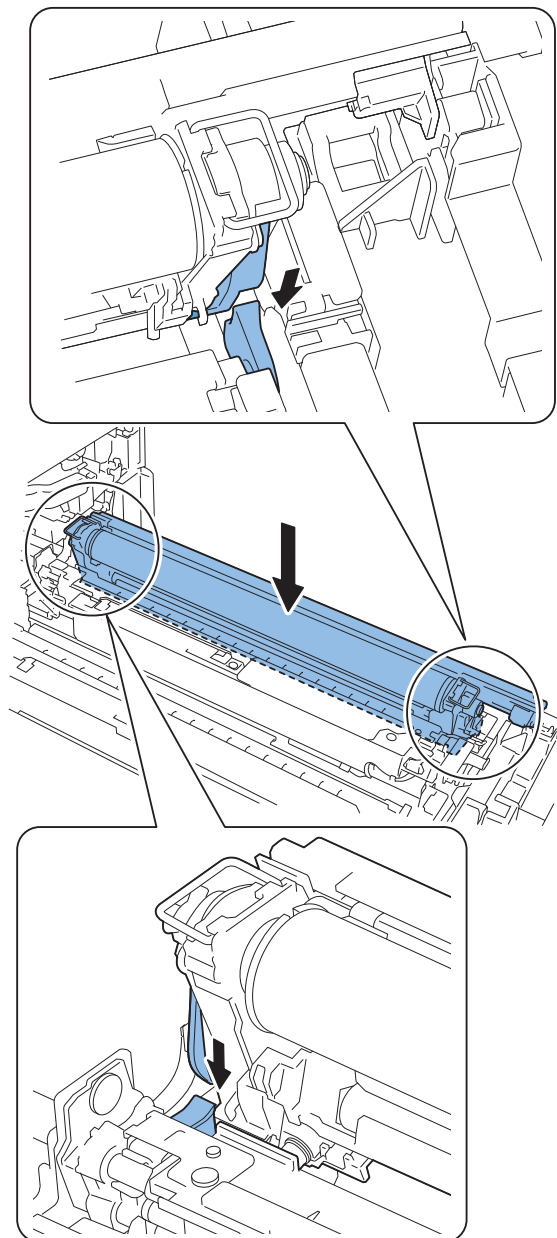
Hold the handles at right and left of the Drum Unit.



□
14.

NOTE:

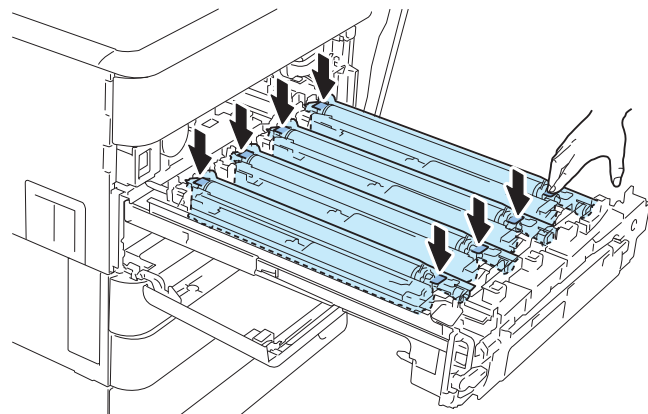
Fit the guide of the Process Unit to the guide of the Drum Unit to install the Drum Unit.



□
15.

NOTE:

Hold down each of the 8 grips lightly with a finger to check that the Drum Units are installed properly.



□
16.

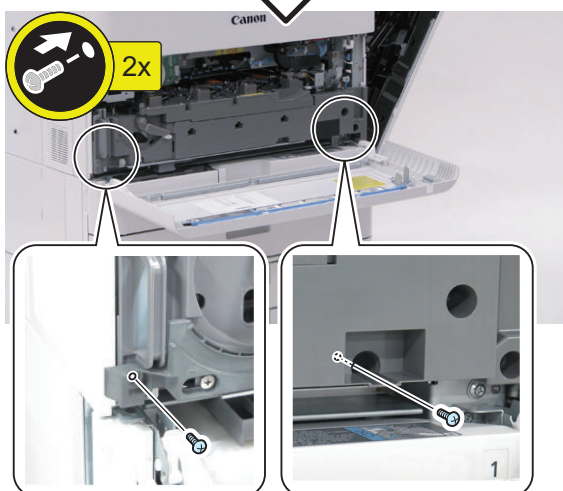
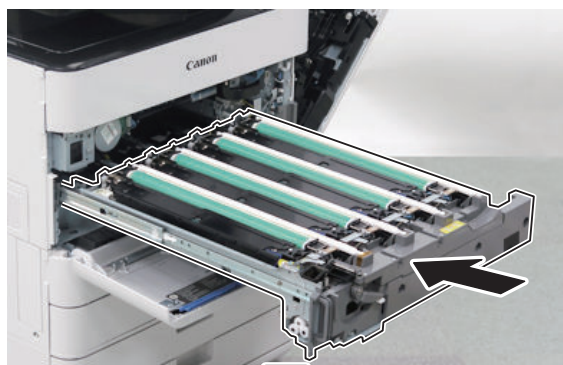
CAUTION:

Check that there is no gap between the host machine and the Process Unit, and then secure with the screw.

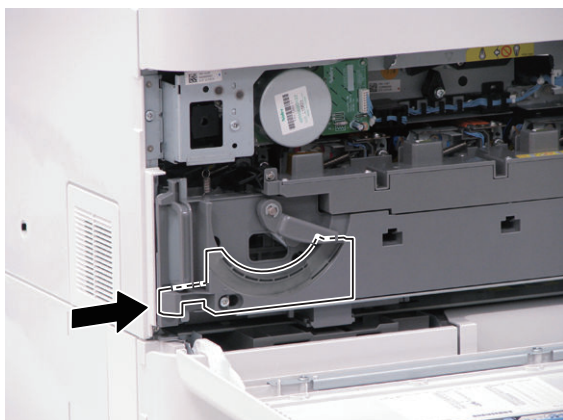


NOTE:

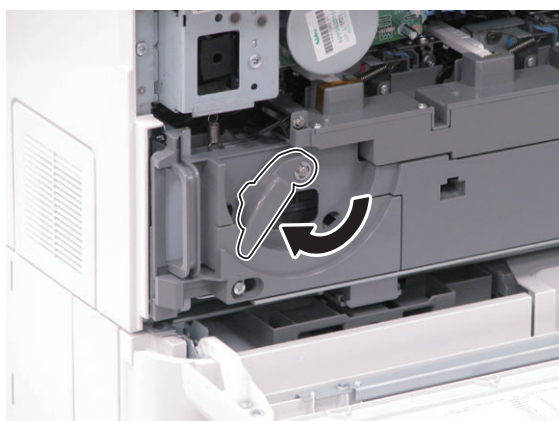
- Use the screw removed in step 5.
- Remove paper covering the Drum units.



17.



18.



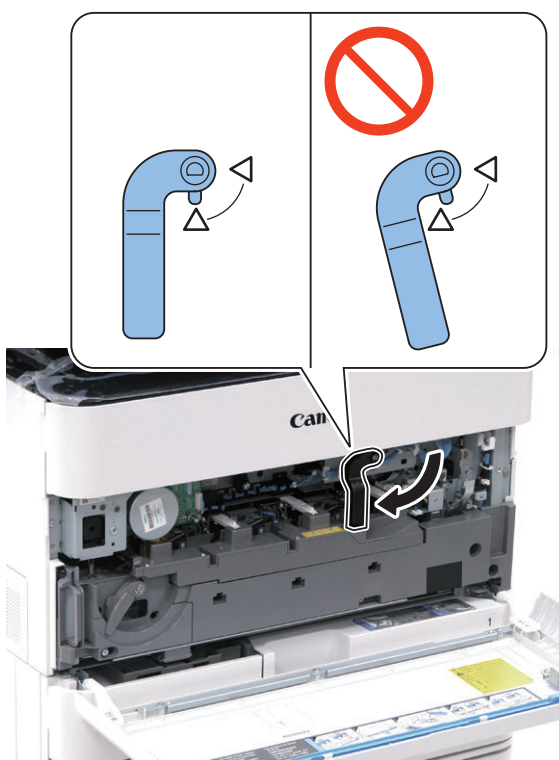
19.

CAUTION:

Make sure that the Right Lower Cover is opened first before pressing.

NOTE:

Turn the ITB Pressure Release Lever in the direction of the arrow, and then fit the projection to the triangle mark on the plate to apply pressure.



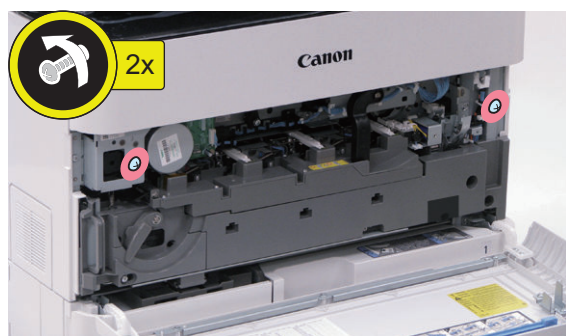
□
20.



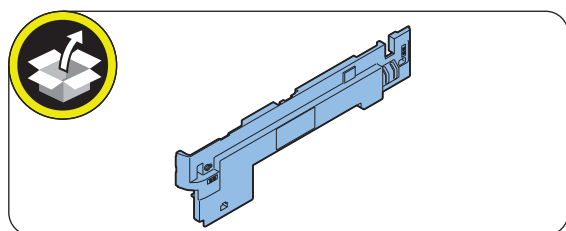
□
23.



□
21.



□
22.



● Setting the Environment Heater Switch

CAUTION:

If the installation environment is a high humidity environment (*1) or low temperature environment (*2), be sure to turn ON the Environment Heater Switch.

Image smear is likely to occur in the high humidity environment and charging failure is likely to occur in the low temperature environment.

*1: This is the case that the value of the absolute water volume outside of the machine is about 12g or more.

COPIER > DISPLAY > ANALOG > ABS-HUM

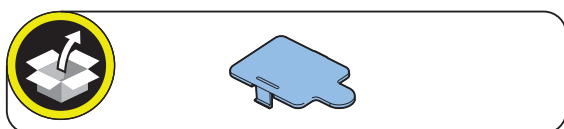
*2: The temperature inside the machine is below 15 deg C.

COPIER > DISPLAY > ANALOG > TEMP2

□
1.

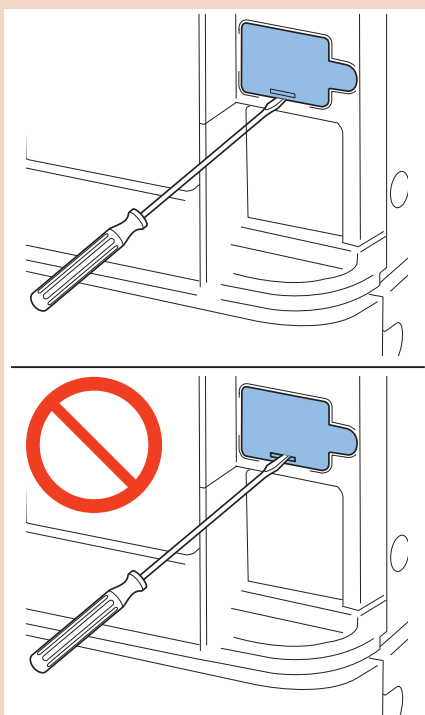


□
2.



CAUTION:

When removing the cover, do not insert a screwdriver in the oval hole.

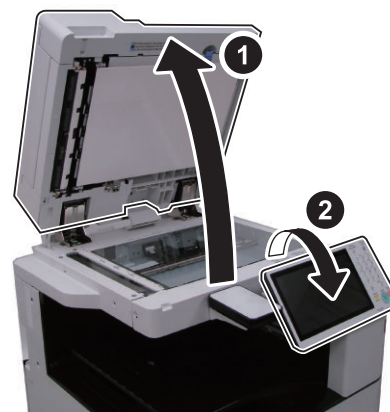


● **Installing IC Card Reader (EUR Only)**

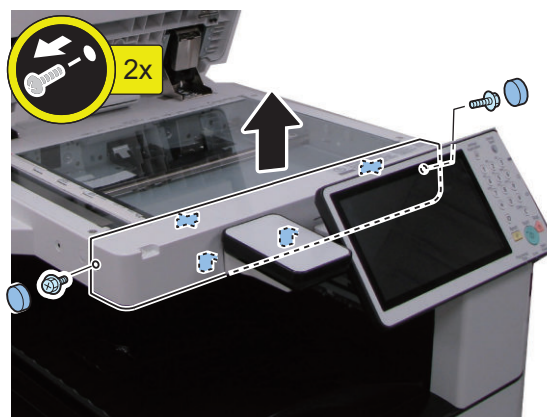
CAUTION:

Although pictures or illustrations used for explanation may differ from the actual things, the procedure is the same.

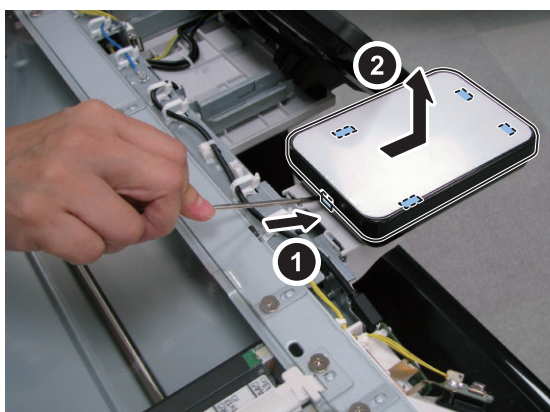
□
1.



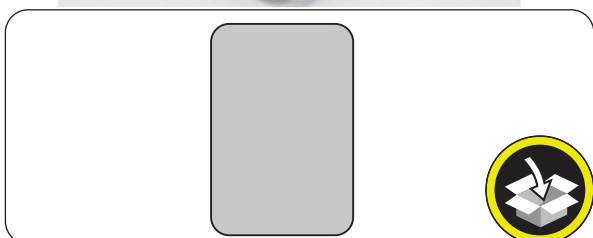
□
2.



□
3.

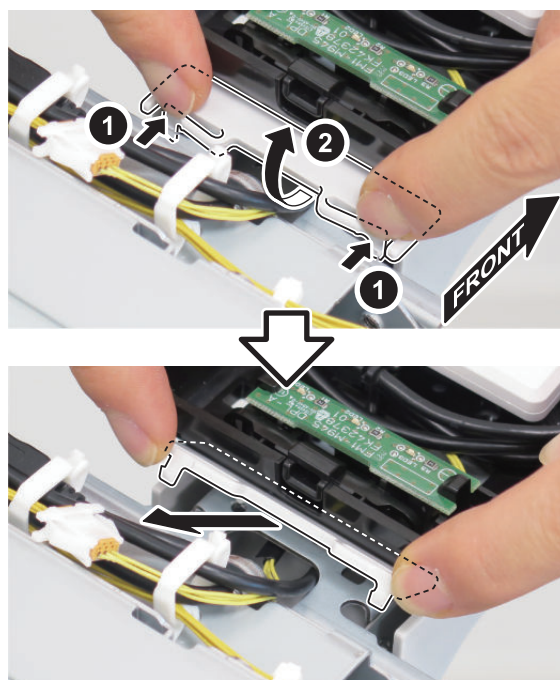


□
4.



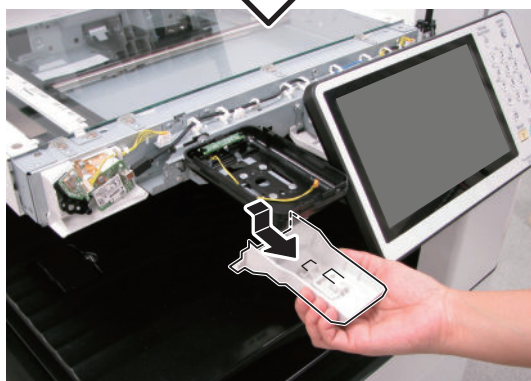
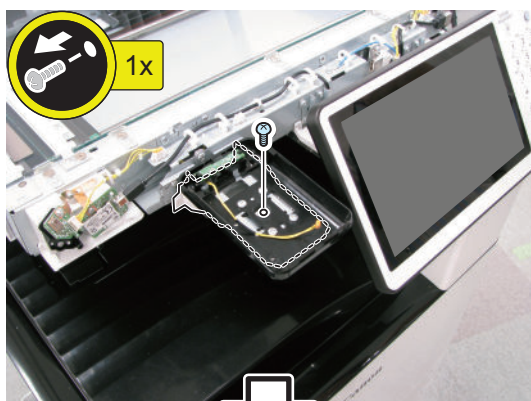
NOTE:
The removed CR BOX Upper Unit will be used in step 14.

□
5.



NOTE:
The removed Base Small Cover will be used in step 13.

□
6.



NOTE:
The removed screw and Base Plate Under Cover will be used in step 11.

□
7.



□
8.



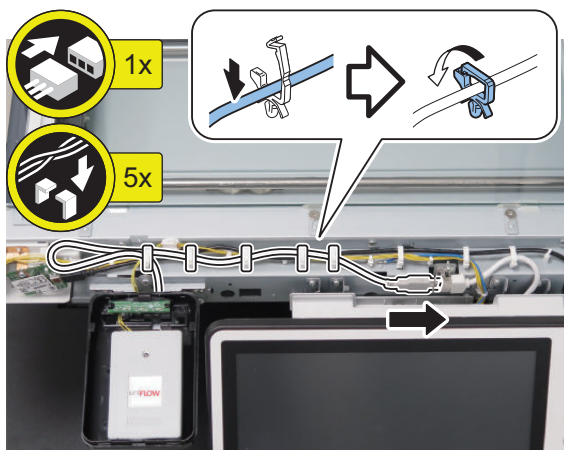
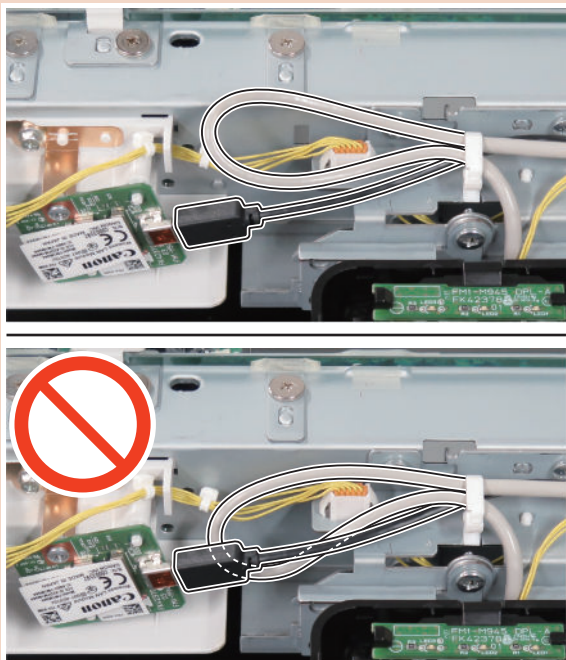
□
9.



10.

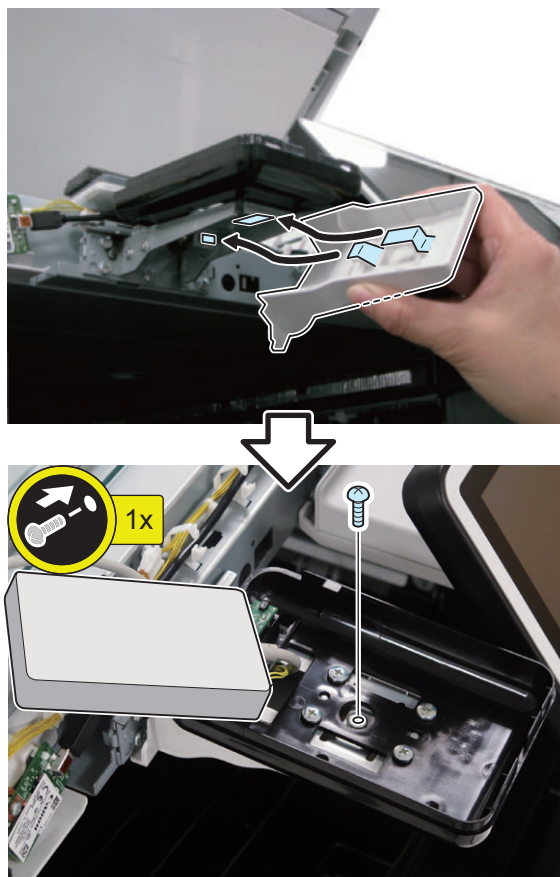
NOTE:
Secure the cables as shown in the figure.

CAUTION:
Make sure to avoid putting too much load on the connection port of Wi-Fi cable.



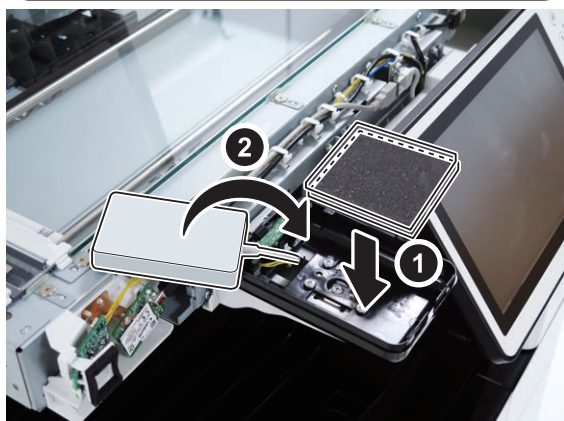
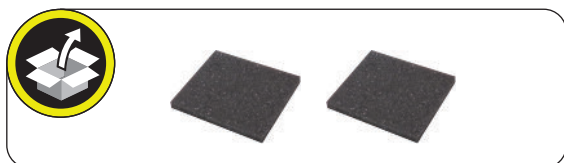
11.

NOTE:
Use the screw and Base Plate Under Cover removed in step 6.



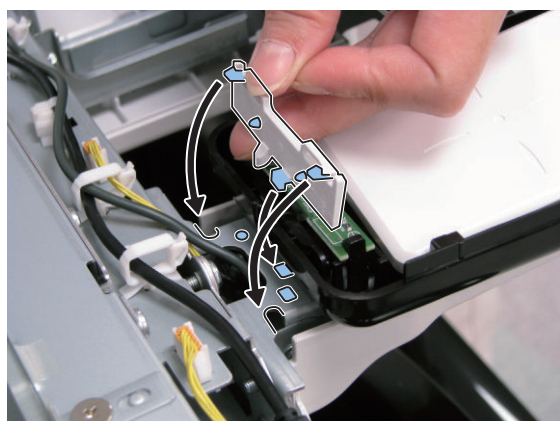
□
12.

NOTE:
Be sure to adjust the number of cushions according to the thickness of the Card Reader.



□
13.

NOTE:
Use the Base Small Cover removed in step 5.

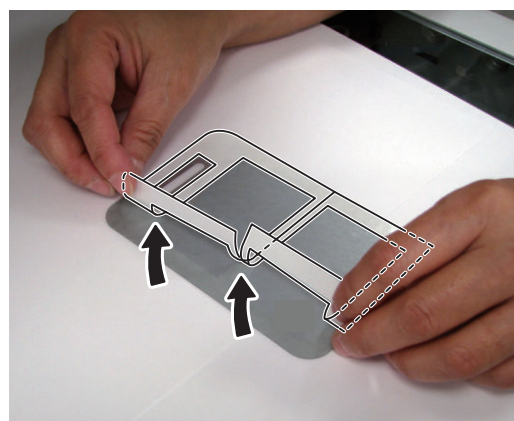
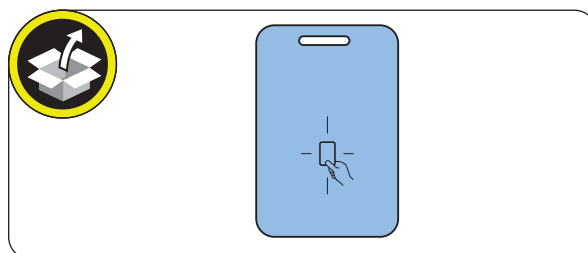


□
14.

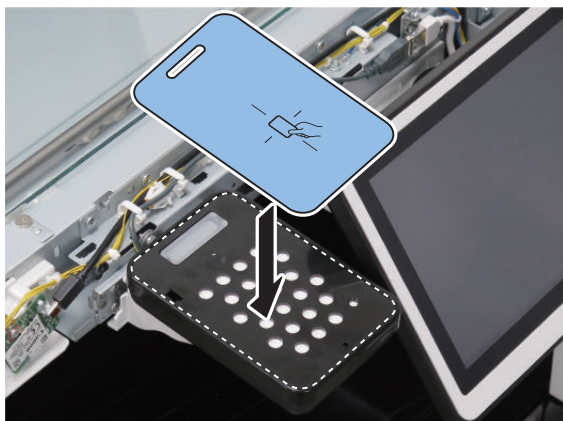
NOTE:
Use the CR BOX Upper Unit removed in step 4.



□
15.



□
16.



□
18.



□
17.

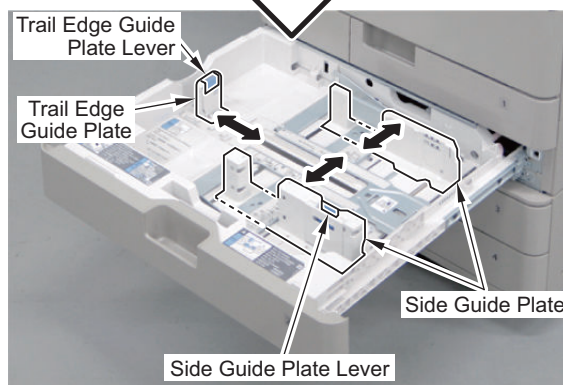


● Setting the Cassette

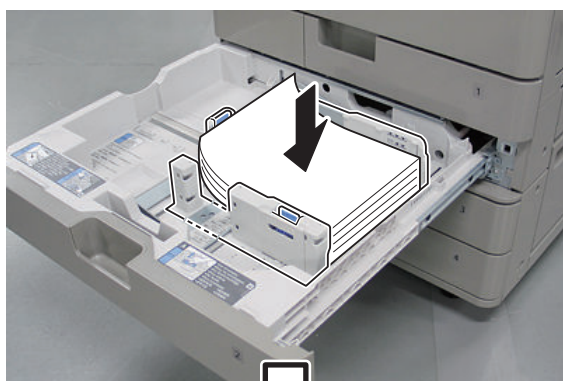
□
1.

NOTE:

- Follow the same steps to set the paper in the Cassette 1 and 2.
- Holding the Guide Plate Lever, adjust each Guide Plate to the specified size.
- Adjust the position of each Guide Plate according to the paper size.



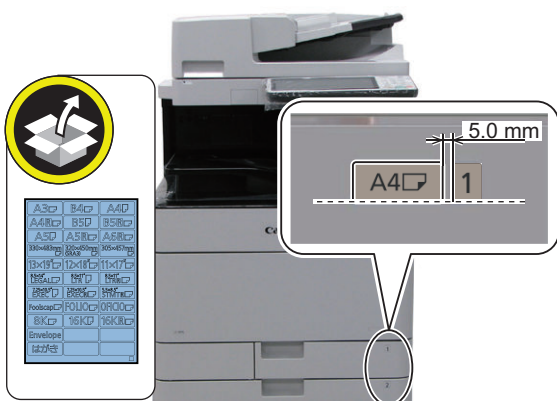
□
2.



□
3.

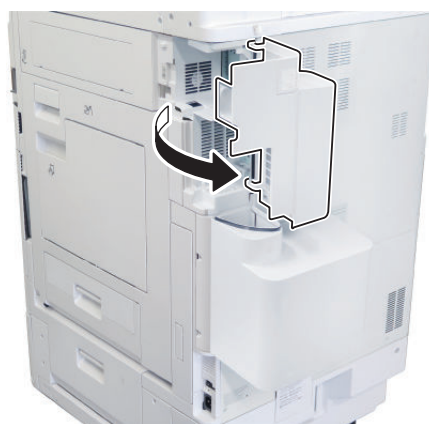
NOTE:

- Affix the Paper Size Label to each cassette according to the size of paper being set.
- Be sure to check with the user whether or not to affix the Paper Size Label, and then affix it at the recommended position.
- Keep the Paper Size Labels as they will be used when changing the paper size.
- Affix the label with its lower edge aligned with the lower edge of the number label, approx. 5.0 mm away from the number label.

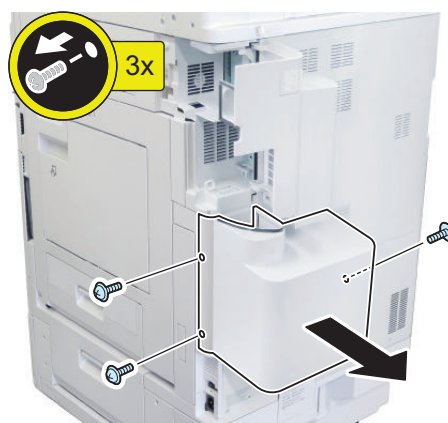


● Installing the Filter (Duct Model for EUR Only)

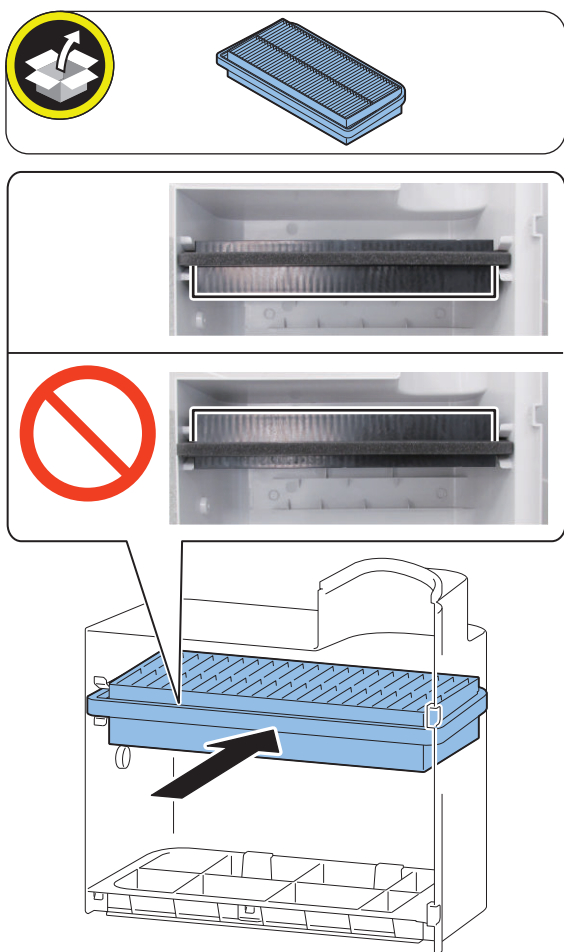
□
1.



□
2.



□
3.



□
5.



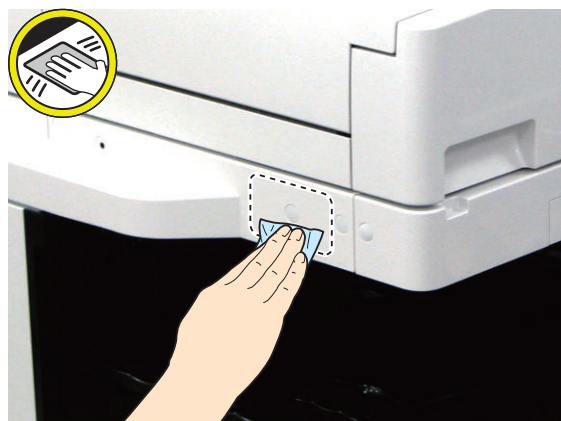
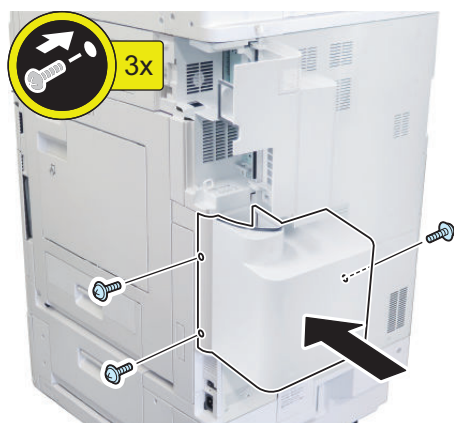
● Installing the Cleaning Tool

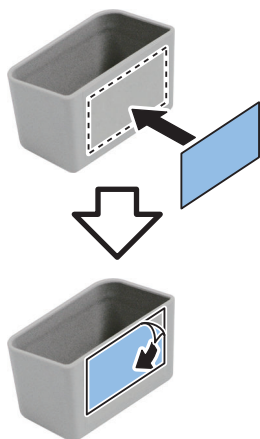
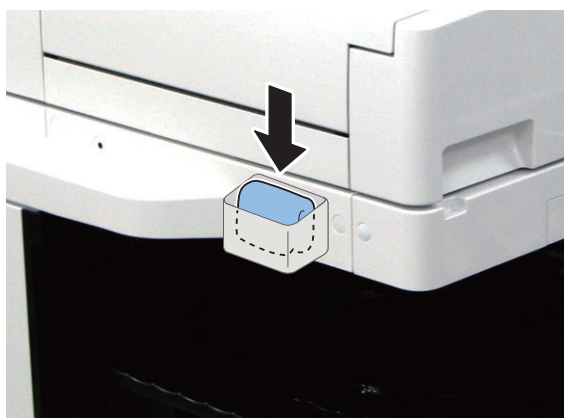
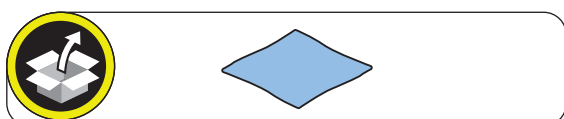
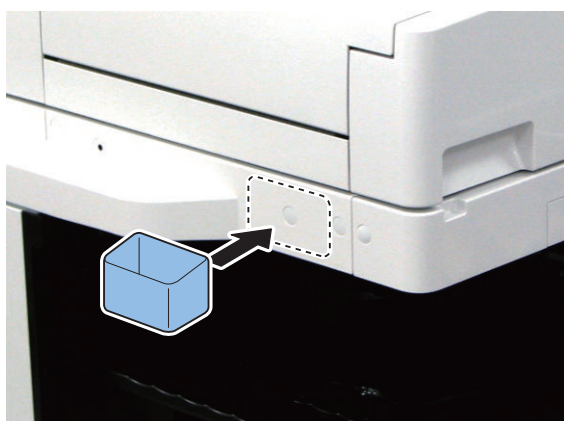
□
1.

NOTE:

- Be sure to install the Cleaning Cloth Storage Box to a position after checking with the user on where to install it.
- Do not install the cleaning tool near the Motion Sensor.
- Clean the position where the Cleaning Cloth Storage Box is to be installed with lint-free paper moistened with alcohol.

□
4.



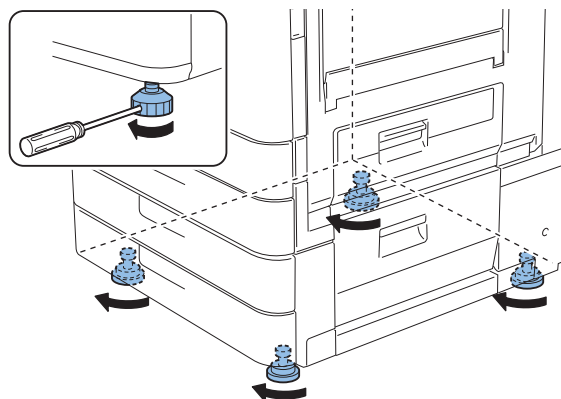
□
2.□
3.

● Securing the Host Machine

□
1.

NOTE:

- Move the main body to the installation position, and secure it in place by turning the 4 adjusters of the Cassette Pedestal with a screwdriver.
- Be sure to secure it in place to prevent overturning.
- Securing with the adjusters is not an earthquake countermeasure.



● Turning the Main Power ON / Setting the Toner Container

CAUTION:

Only for Korea and China, the Toner Container is installed on the host machine.

□

1. Connect the power plug of the host machine to the power outlet.

□

2. Remove the protection sheet on the control panel.

□

3. Turn ON the main power switch.

NOTE:

- Toner fill and initialization of the Developing Assembly and the Drum are automatically performed.
- When toner fill is completed, the operation stops. (Approx. 3 to 4 minutes)
- Even turning OFF the main power during drum initialization, developing assembly initialization and toner fill, they will be re-executed when turning ON the power again.

CAUTION:

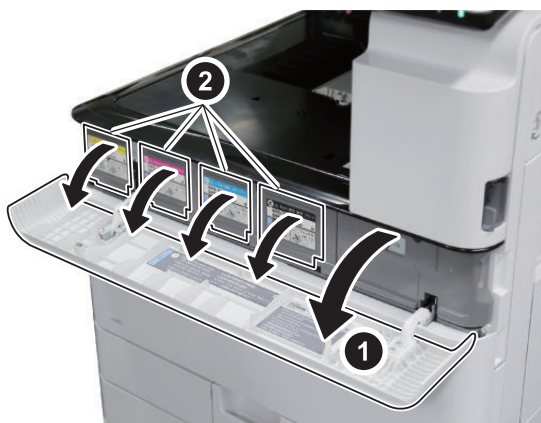
- In case of the host machine with the Toner Container, once the machine goes to standby state, drum initialization, developing assembly initialization and toner refill are completed.
- In case of the host machine without the Toner Container, execute the following procedures.

□

4. Open the Toner Replacement Cover, only after the toner container replacement screen has appeared on UI (then the Toner Bottle Exchange Doors open automatically).

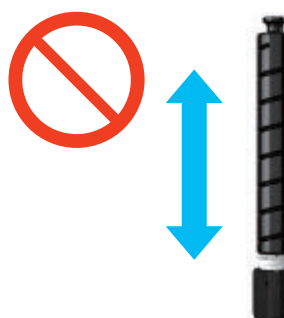
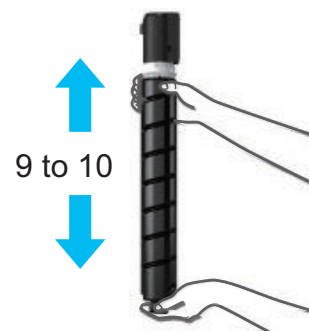
NOTE:

Disregard the screen that includes the message "Replace the toner cartridge.", as the Toner Containers are not yet loaded at the time of initial installation.



□

5. Hold the Toner Container as shown in the figure and shake it approx. 10 times.



□

6. Be sure to insert the Toner Container horizontally with your hand supporting its bottom until approx. half of it is inserted.



□

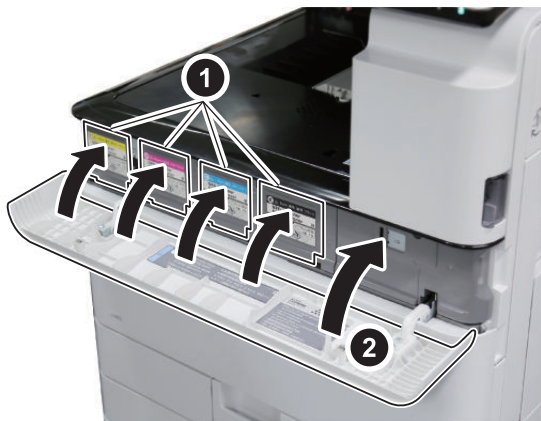
7. Perform steps 7 to 8 for each color.



8. Close the Toner Bottle Exchange Door and Toner Replacement Cover.

NOTE:

Toner supply starts automatically when the Toner Replacement Cover is closed. (Approx. 3 to 4 minutes)



Host Machine Settings (Starting Setup Guide)

After installation of the host machine, Setup Guide is started at the time of first startup. Follow the instructions displayed on the Touch Panel Display to configure the settings of the host machine.

NOTE:

For more detail, see following item on the user manual.

- Top > Setting Up > Setting up Using the Setup Guide

CAUTION:

- Excluding some of the setting items, it is possible to proceed to the next setting without entering the current setting. To configure skipped settings, configure the settings one by one after exiting Setup Guide.
- Setup Guide can be started again from [Settings/Registration] > [Management Settings] > [License/Other] > [Start Setup Guide].
- If the main power is turned OFF during registration using Setup Guide, Setup Guide is started by turning ON the main power again.
- If registration using Setup Guide has been completed, Setup Guide is not started by turning ON the main power again.

CAUTION:

Register the information of paper loaded during installation of the host machine.

Be sure to register the correct paper type. Especially in the case of special paper types such as heavy paper, registering a wrong paper type may result in image failure, and when the Fixing Assembly becomes soiled or paper wraparound occurs, repair by a service technician becomes necessary.

NOTE:

- Initialization of toner fill, initialization of the Developing Unit, initialization of the drum, color displacement correction, etc. are automatically performed while Setup Guide is running.
- When all of them have been initialized, Setup Guide stops (Approx. 3 to 4 minutes).

<Paper Settings>

- Select the paper source for which you want to specify the paper type, and press [Set].
- Select the paper type, and press [OK].
- If [Plain] is selected, the basis weight can be specified from [Plain Paper Weight Set].
- If a button corresponding to the paper that has been set is not displayed, press [Detailed Settings] and make a selection on the detailed settings screen.

NOTE:

If the corresponding paper type is not displayed on the simple settings screen, press [Detailed Settings] and make a selection on the detailed settings screen. If the type of loaded paper is not displayed on the detailed settings screen, you can register it.

■ Informing the System Administrator That Installation Is Complete

When the installation is completed, ask the system administrator to change the password and keep the changed password in a safe place to prevent leakage.

Registration of Installation Date Information

CAUTION:

Be sure that [Date/Time Settings] is completed. (There are items in Setup Guide.)



1. Enter the following service mode, and execute "Batch Set Installation Date Info".

COPIER > FUNCTION > INSTALL > INSTDTST

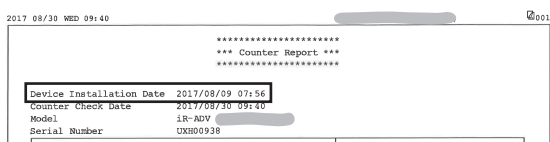
NOTE:

- Year, month, day, hour, and minute can be edited individually in the following service modes.
 COPIER > OPTION > USER > INSTDT-Y
 COPIER > OPTION > USER > INSTDT-M
 COPIER > OPTION > USER > INSTDT-D
 COPIER > OPTION > USER > INSTDT-H
 COPIER > OPTION > USER > INSTDT-N
- The default value of each service mode is "0".
- When "0" is set for each service mode, "Device Installation Date" on the counter report will be blank.

2. Exit service mode.

3. Output the counter report, and check that the installation date information is registered.

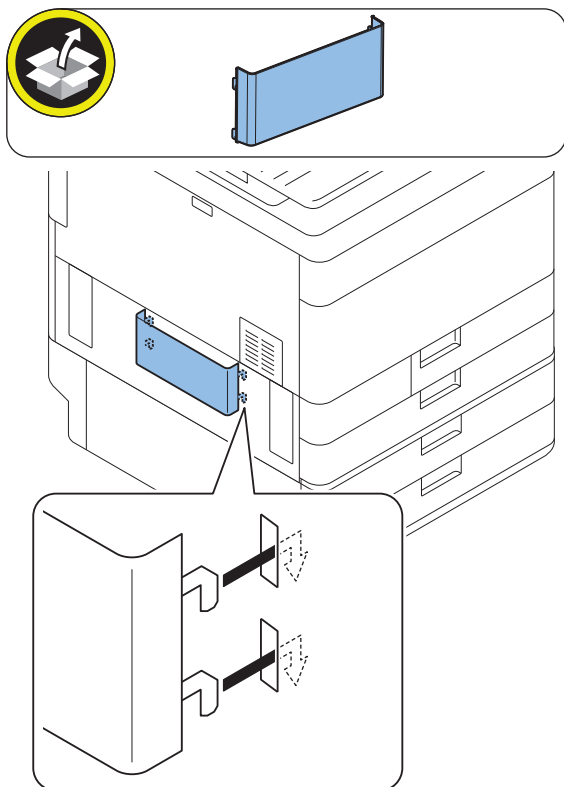
- [Counter/Device Information] key > [Print List] > [Yes]



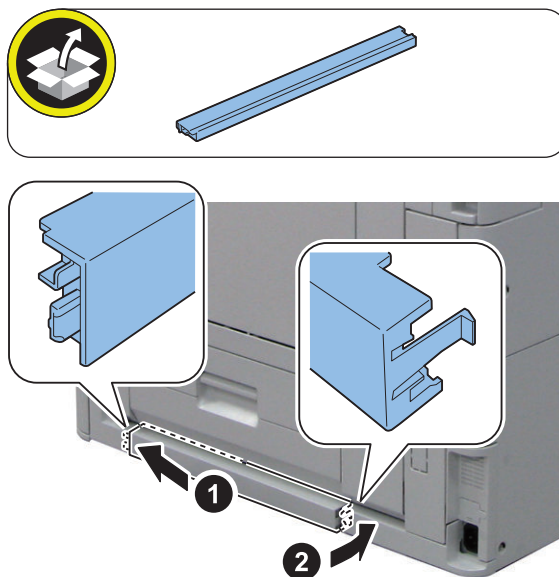
Other Installations



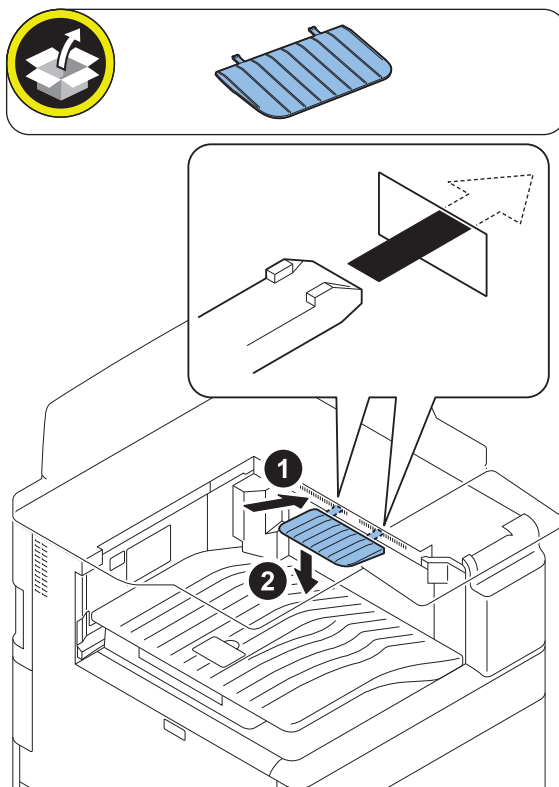
1.



2. <Only when the Cassette Pedestal is not installed>



3.



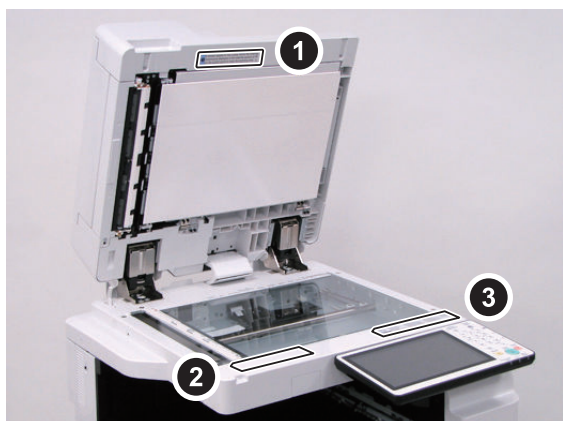
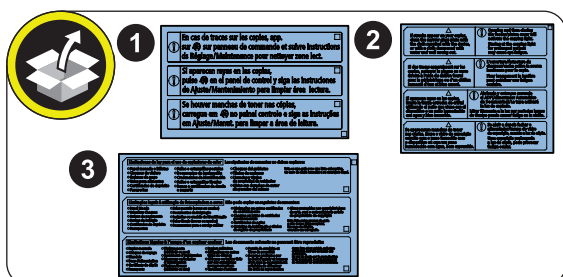
□
4.



□
5.

NOTE:

- Affix the label of the appropriate language as shown in the figure below.
- If a label is already affixed, affix over the existing label.



● Checking the K paper settings (CHINA Only)

□

Check the following service mode, and change the setting value if different.

1. Enter the following Service Mode, make sure that the setting value is "0".
COPIER > OPTION > FNC-SW > MODEL-SZ
2. Enter the following Service Mode (Lv.2), make sure that the setting value is "0".
COPIER > OPTION > FNC-SW > SENS-CNF
3. Enter the following Service Mode (Lv.2), make sure that the setting value is "0".
COPIER > OPTION > FNC-SW > MODELSZ2
4. Enter the following Service Mode (Lv.2), make sure that the setting value is "1".
COPIER > OPTION > FNC-SW > KSIZE-SW
5. When having changed the setting, turn OFF and then ON the main power to enable the setting value.

● Installing the Envelope Attachment A

■ Envelope Standards of the Envelope Attachment A

Cassette 1

Type	(Short side (X)×Long Side (Y))
No. 10 (COM10)	4 1/8" x 9 1/2"(inch)/ 104.7 x 241.3 mm
DL	110 x 220 mm
ISO-C5	162 x 229 mm

Cassette 2

Type	(Long Side (X)×Short side (Y))
Monarch	7 1/2" x 3 7/8"(inch)/ 190.5 x 98.4 mm
No. 10 (COM10)	9 1/2" x 4 1/8"(inch)/ 241.3 x 104.7 mm
DL	220 x 110 mm
ISO-C5	229 x 162 mm

■ Installing the Envelope Attachment A

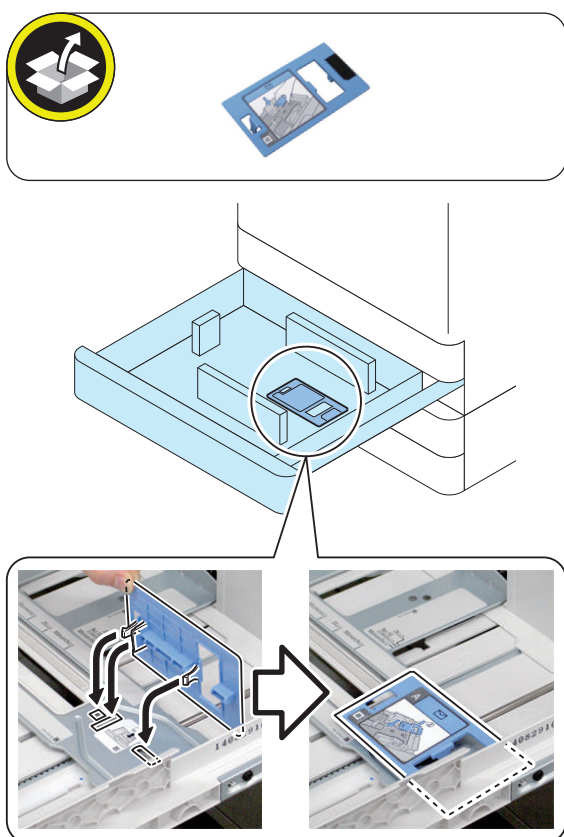
CAUTION:

- Use the Envelope Attachment A for the Cassette 1 or Cassette 2.
- Do not use the Cassette 3 or Cassette 4.

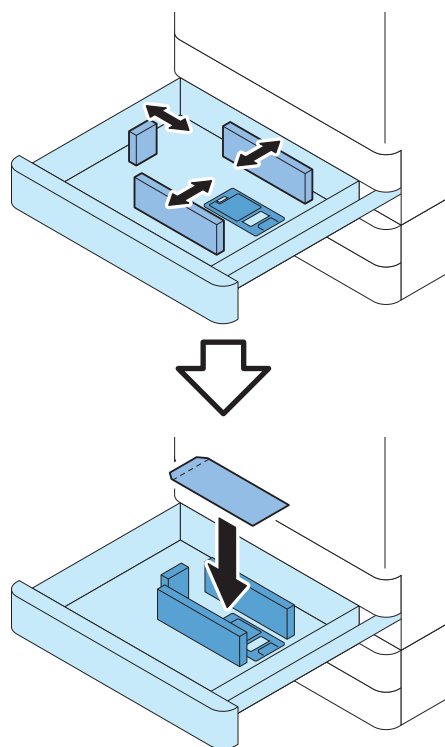
NOTE:

Install/remove the Envelope Attachment A only if requested by the customer.

□
1.

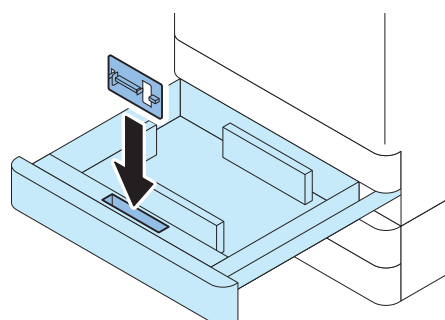


□
2.



■ When the Envelope Attachment A Is Not Used

□
1.



■ Settings after Installation

□

1. Select [Settings/Registration] > [Preferences] > [Paper Settings] > [Paper Settings] > [Cassette 1/ Cassette 2] > [Envelope]

□

2. Select the type of envelope to be used and then press [OK] to register it.

■ Display/Operation Check



1. Check that "Envelope" is selected for Cassette 1 or Cassette 2 on the Control Panel's "Paper Settings" screen.



2. Check that the envelope is picked up.

● Installing the Envelope Attachment B

■ Envelope Standards of the Envelope Attachment B

Type	(Short side (X)×Long Side (Y))
No. 10 (COM10)	4 1/8" x 9 1/2"(inch)/ 104.7 x 241.3 mm
DL	110 x 220 mm

■ Installing the Envelope Attachment B

CAUTION:

Use the Envelope Attachment B for the Cassette 1.

NOTE:

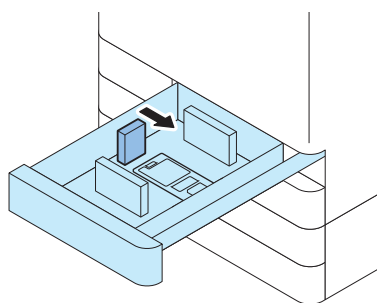
- Install or remove the Envelope Attachment B only if requested by the customer.
- If the Envelope Attachment B is not used, ask the customer to store it.



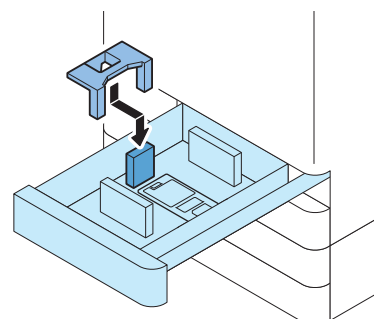
1.

CAUTION:

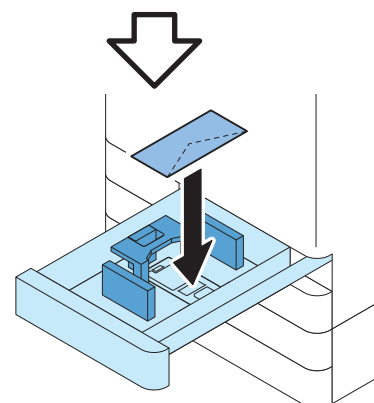
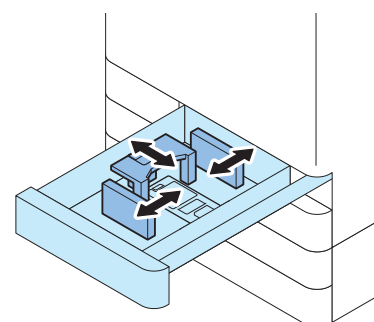
In order to prevent skew, use it together with the Envelope Attachment A.



2.



3.



■ Settings after Installation



1. Select [Settings/Registration] > [Preferences] > [Paper Settings] > [Paper Settings] > [Cassette 1] > [Envelope]



2. Select the type of envelope to be used and then press [OK] to register it.

■ Display/Operation Check



1. Check that "Envelope" is selected for Cassette 1 on the Control Panel's "Paper Settings" screen.



2. Check that the envelope is picked up.

● Checking after the Installation



1. In Service Mode, check the result of Drum Unit initialization.

Make sure that the value of the installed color is [0].

COPIER > COUNTER > LIFE > PT-DR-Y

COPIER > COUNTER > LIFE > PT-DR-M

COPIER > COUNTER > LIFE > PT-DR-C

COPIER > COUNTER > LIFE > PT-DRM

NOTE:

If the value entered is not appropriate

1. Turn OFF the power, refit the Drum Unit and turn On the power again.

2. If the above work does not solve the problem, execute initialization of the Drum Unit for each color in Service Mode.

COPIER > FUNCTION > DPC > DRMRSETY

COPIER > FUNCTION > DPC > DRMRSETM

COPIER > FUNCTION > DPC > DRMRSETC

COPIER > FUNCTION > DPC > DRMRSETK



2. Check the result of initialization of developing toner ratio in Service Mode.

Check that each value is within the range of 200 to 450, and then write down the value on the service label at the rear side of the Front Cover.

COPIER > ADJUST > DENS > CONT-Y

COPIER > ADJUST > DENS > CONT-M

COPIER > ADJUST > DENS > CONT-C

COPIER > ADJUST > DENS > CONT-K



3. Check the Developing Patch initialization.

Check that each value is within the range of 200 to 680 (around 440), and then write down the value on the service label at the rear side of the Front Cover.

COPIER > ADJUST > DENS > SGNL-Y

COPIER > ADJUST > DENS > SGNL-M

COPIER > ADJUST > DENS > SGNL-C

COPIER > ADJUST > DENS > SGNL-K

● Auto Adjust Gradation (Full Adjustment)

CAUTION:

If the gradation performance is wrong on outputting the image, set [Initialize When Using Full Adjust] and perform the Auto Adjust Gradation again.

Execute the Auto Adjust Gradation to the following 3 modes: [Plain], [Heavy 1], and [Heavy 2 - 7].

However, when using 2 or more types of paper, it is necessary to execute all the modes corresponding to the types of paper.

CAUTION:

When using paper type to which Auto Adjust Gradation is not executed, image failure or damage on the host machine may occur.



1. Place paper to be corrected in the paper source.

CAUTION:

Be sure to select the correct paper type/weight, as the toner and fixing conditions are adjusted according to the paper type.

2. Select [Settings/Registration] > [Adjustment/Maintenance] > [Adjust Image Quality] > [Auto Adjust Gradation] > [Initialize When Using Full Adjust].
3. Select [ON], and press [OK].
4. Select the paper type, and press [Full Adjust].
5. Select the paper source, and press [OK].
6. Select the paper source, and press [OK].
7. After that, follow the instructions on the screen to read the test page.

● Auto Correct color Tone Settings (Register Correction Pattern)



1. Clean the glass surface of Copyboard Glass on the host machine.

2. Log in as a system manager.

Factory default password is as follows.

- System administration division ID: Administrator
- System administration password: 7654321

CAUTION:

When [System Manager Information Settings] is set, it is required to log in as a system manager in accordance with instructions from the user administrator.

3. [Settings/Registration] > [Adjustment/Maintenance] > [Adjust Image Quality] > [Auto Correct color Tone Settings] > [Register Correction Pattern], and press [Yes].

CAUTION:

It is required that auto gradation adjustment has been executed.

4. Select the destination for registration, and press [Next].

5. Select the paper which is used by the user and press [Next].

CAUTION:

- Select the paper used for auto gradation adjustment.
- If paper has been registered for auto gradation adjustment, select the registered paper.

6. Select the paper source where paper which is used by the user is loaded and press [OK].

7. Press [Start Printing].

8. Set the output image on the Copyboard and press [Start Scanning].

9. If there are 2 or more papers which either was used for auto gradation adjustment or has been registered, repeat steps 3 to 8 as necessary. At that time, be sure to register each paper to different destination. (Up to 4 papers can be registered.)

Execute the ITB Equilibrium Position Detection



1. Check that the main body is in standby state.

2. Execute the ITB Equilibrium Position Detection. Approx. 3 to 4minutes

COPIER > FUNCTION > MISC-P > ITB-INIT

3. Check that the value of the following service mode (Level 1) is "-350 to +350".

COPIER > DISPLAY > MISC > ITB-POS
COPIER > DISPLAY > MISC > ITB-POS2

4. If the value of service mode is out of range, perform the [ITB Alignment Adjustment].

NOTE:

Since this product is not affected by the tilt of floor, adjustment of the adjuster height is not valid. Therefore, if it is out of the range, perform "ITB alignment adjustment".

■ ITB Alignment Adjustment



1. Turn OFF the main power switch of the host machine.

2. Be sure that Control Panel Display and Main Power Lamp are both turned OFF, and then disconnect the power plug.



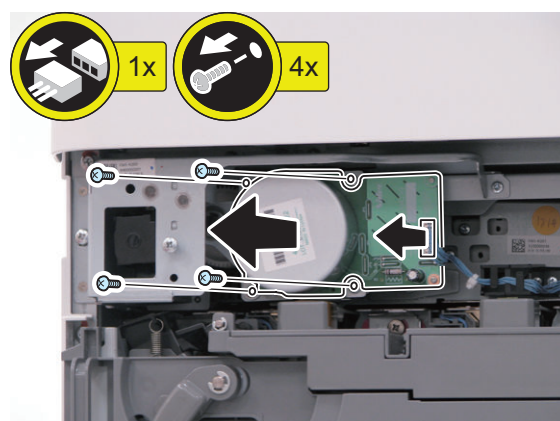
3. Open the Front Cover and remove the ITB Cover.

- 2 Screws (Loosen)



4. Remove the ITB Motor.

- 1 Connector
- 4 Screws

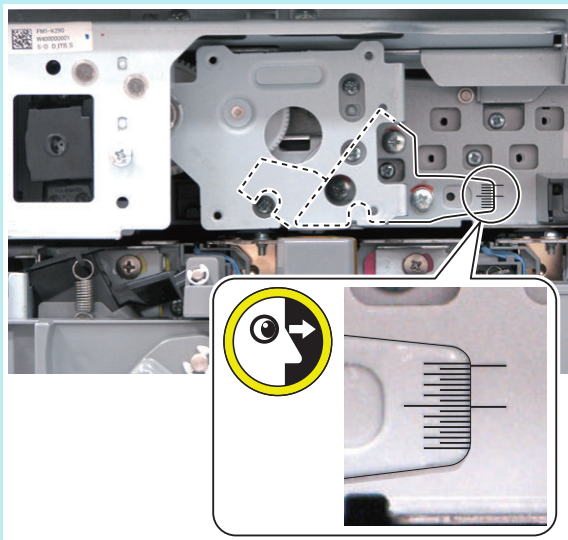




5. Loosen the 3 screws, and rotate the ITB Motor Support Plate clockwise or counterclockwise.

NOTE:

Be sure to check the initial position of the Adjustment Plate before loosening the screw because it moves when the screw is loosened.

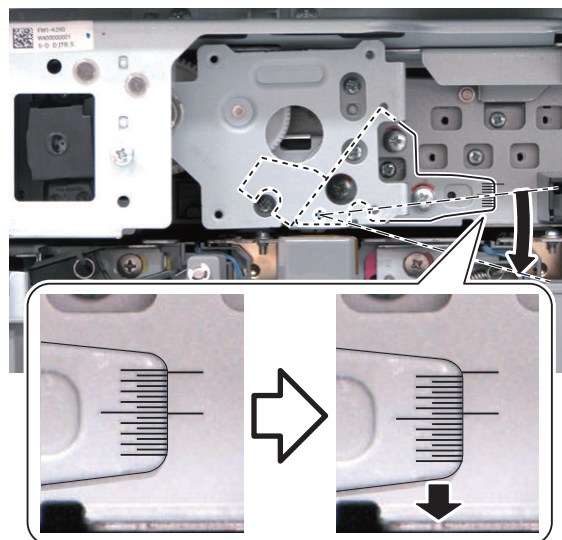


CAUTION:

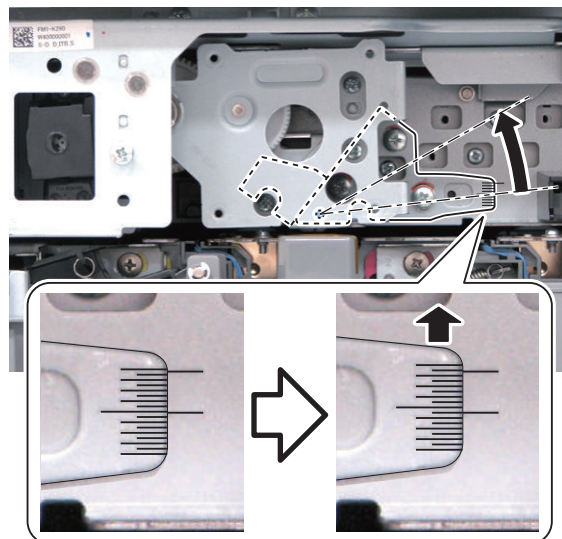
The appropriate range is from -350 to +350.

- Make an adjustment by 1 scale mark (0.5 mm) or less at a time.
- Moving it by 1 scale mark (0.5 mm) changes the values of ITB-POS and ITB-POS2 by approx. 250.
- When moving the scale to the full extent of the range, the value of POS may change significantly and E075 may light up.

- <When the values are above +350>
Rotate the ITB Motor Support Plate clockwise.

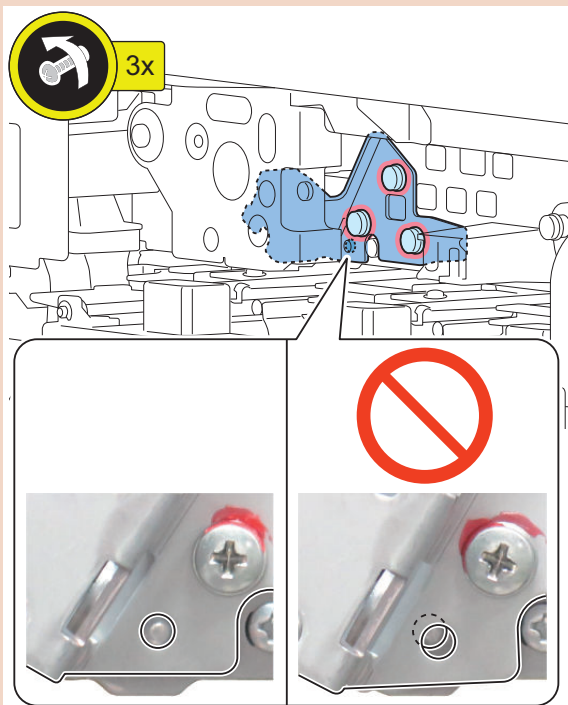


- <When the values are below -350>
Rotate the ITB Motor Support Plate counterclockwise.



CAUTION:

Be sure that the plate is not placed on the boss which serves as the axis of rotation.

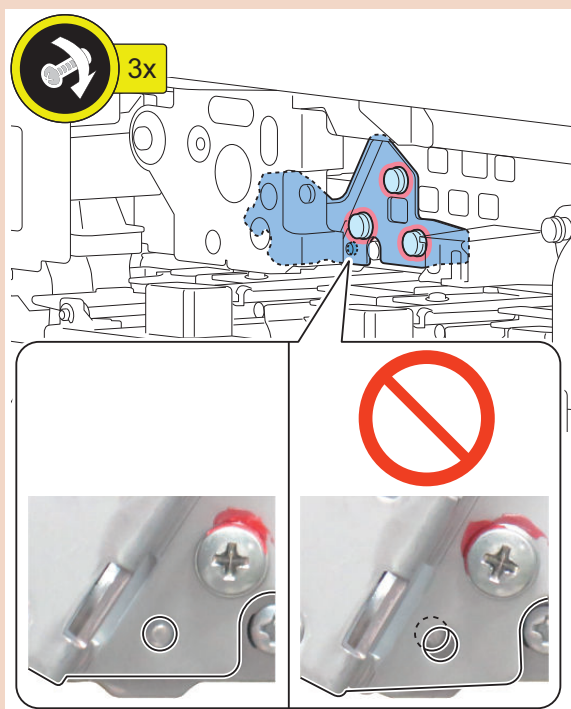




6. Tighten 3 screws loosened on the previous step.

CAUTION:

Be sure that the plate is not placed on the boss which serves as the axis of rotation.



7. Install the ITB Motor. (4 Screws, 1 Connector)



8. Install the ITB Cover (2 screws) and close the Front Cover.



9. Connect the power plug of the host machine to the power outlet.

10. Open the switch cover and turn ON the main power switch.



11. Perform steps 2 to 4 of "Detecting the ITB equilibrium position".

Adjusting Image Position (Printer)

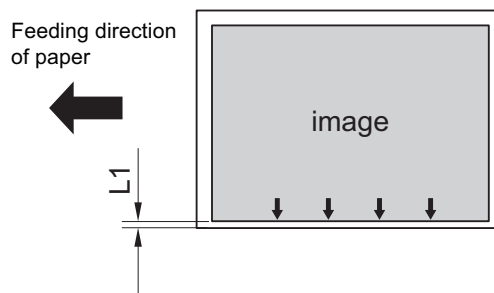
NOTE:

- In duplex printing, the first side is the front side and the second side is the back side.
- The Host Machine prints the first image on the back and the second on the front.

Cassette Left Edge Margin Adjustment (Software Adjustment)



1. Make 2-sided copies using the Cassette 1 and check that the left edge margin is 2.5 +/- 1.5 mm.



<In case the Cassette1 is Nonstandard>



2. If the left margin is out of the specification, change the adjustment value for the left margin on the 1st side in cassette 1.

If the value of service mode is increased by "1", the left edge margin becomes 0.1mm larger.

COPIER > ADJUST > FEED-ADJ > ADJ-C1



3. Make 2-sided copy from cassette 2, and check that the left margin is 2.5 +/- 1.5mm.

<In case the Cassette2 is Nonstandard>



4. If the margin is out of the specification, change the adjustment value for the left margin on the 2nd side in cassette 2.

If the value of service mode is increased by "1", the left edge margin becomes 0.1mm larger.

COPIER > ADJUST > FEED-ADJ > ADJ-C2



5. Write down the new adjustment value on the service label.

- ADJ-C1
- ADJ-C2



6. Exit from Service Mode.

■ Cassette Left Edge Margin Adjustment (Hardware Adjustment)

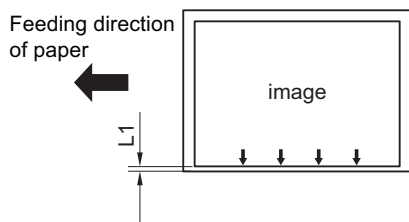
NOTE:

- Although pictures or illustrations used for explanation may differ from the actual things, the procedure is the same.
- The cassette left edge margin adjustment for 1st side is performed with the priority on software adjustment.
- Cassette 1 does not have the hardware adjustment mechanism.

□
1.

NOTE:

Make copies using the Cassette 2, and check that the left edge margin is 2.5 +/- 1.5 mm.

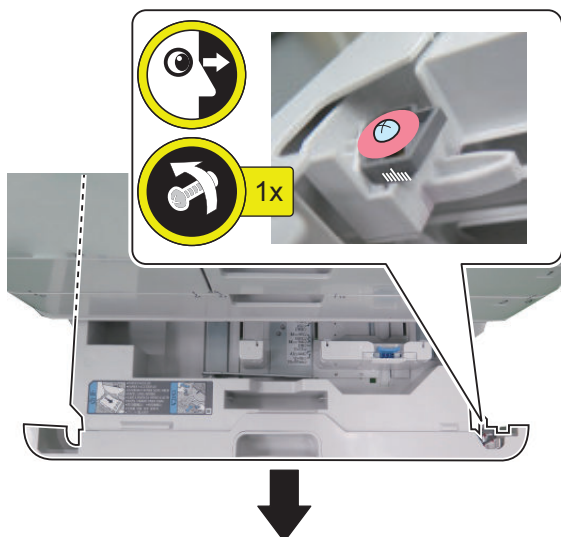


< In Case of Out of Range >

□
2.

NOTE:

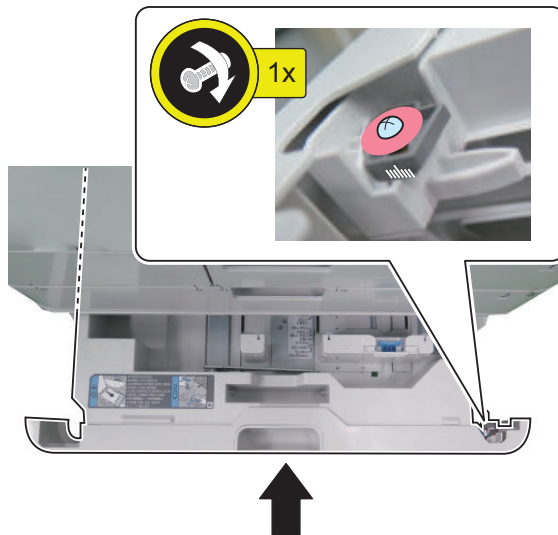
- Pull out the cassette.
- Check the scale positions on the Adjustment Plate.
- Loosen the fixing screw.
- As moving the adjusting plate toward the rear by 1 scale, the left edge margin becomes 1.0 mm smaller.



□
3.

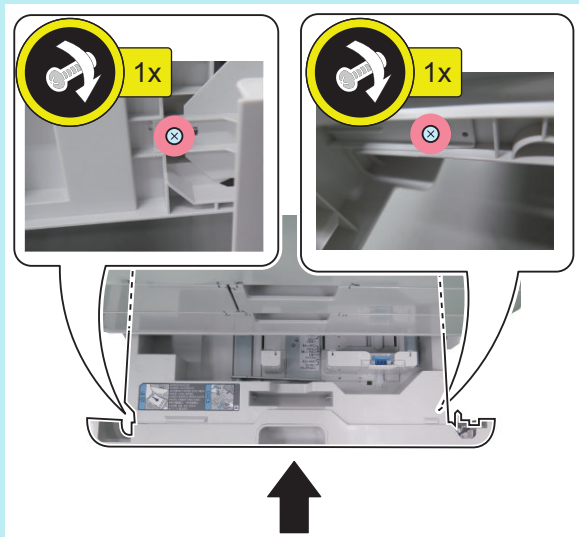
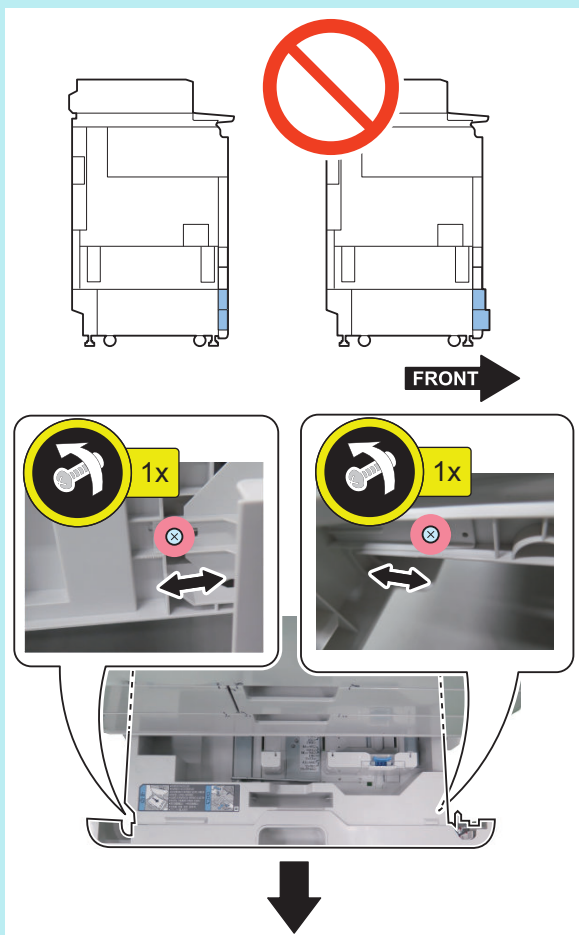
NOTE:

- Tighten the fixing screw.
- Return the cassette to its original position.
- Make copies using the Cassette 2, and check that the left edge margin is 2.5 +/- 1.5 mm.



NOTE:

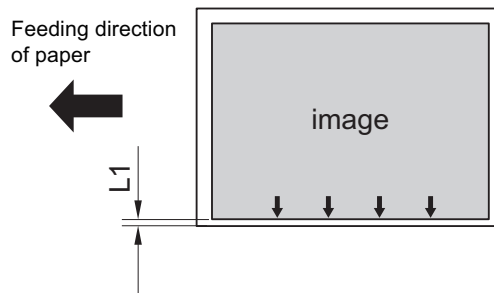
When the cassette positions are uneven due to the hardware adjustment, adjust them by loosening the screw on both left and right sides.



■ Multi-purpose Tray Left Edge Margin Adjustment (1st side)



1. Execute duplex printing from the Multi-purpose Tray, and check that the left edge margin for the 1st side is within 2.5 +/- 1.5mm.



< In Case of Out of Range >



2. Change the left edge margin adjustment value for the 1st side of the Multi-purpose Tray.

If the value of service mode is increased by "1", the left edge margin becomes 0.1mm larger.

COPIER > ADJUST > FEED-ADJ > ADJ-MF

3. Write the new adjustment value on the service label.
 - ADJ-MF

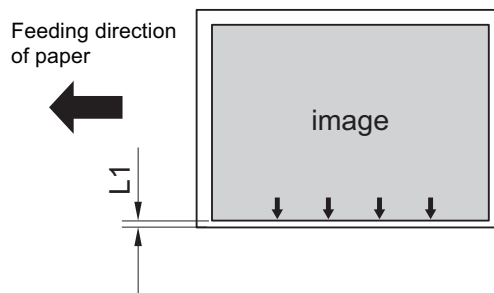


4. Exit from Service Mode.

■ Cassette Left Edge Margin Adjustment (Second side)



1. Make 2-sided copies using the Cassette 1 and check that the left edge margin is 2.5 +/- 2.0 mm.



<In case the Cassette1 is Nonstandard>



2. As for nonstandard, change the left edge margin adjustment value for the second side of the 2-sided copy from the Cassette 1.

If the value of service mode is increased by "1", the left edge margin becomes 0.1mm larger.

COPIER > ADJUST > FEED-ADJ > ADJ-C1RE



3. As for the adjustment value for side registration on the second side in cassette 1, enter the same value as the adjustment value for the left margin on the 1st side in cassette 2.

COPIER > ADJUST > FEED-ADJ > ADJ-C2RE



4. Make 2-sided copies using the Cassette 2, and check that the left edge margin is 2.5 +/- 2.0 mm.

<In case the Cassette2 is Nonstandard>



5. If the margin is out of the specification, change the adjustment value for the left margin on the 2nd side in cassette 2.

If the value of service mode is increased by "1", the left edge margin becomes 0.1mm larger.

COPIER > ADJUST > FEED-ADJ > ADJ-C2RE



6. Write down the new adjustment value on the service label.

- ADJ-C1RE
- ADJ-C2RE



7. Exit from Service Mode.

■ Multi Purpose Tray Left Edge Margin Adjustment (2nd side)



1. Make 2-sided copy from the manual feed tray, and check that the left margin on the 2nd side is 2.5 +/- 2.0mm.

< In Case of Out of Range >



2. Change the adjustment value for the left margin on the 2nd side from the Multi Purpose Tray.

If the value of service mode is increased by "1", the left edge margin becomes 0.1mm smaller.

COPIER > ADJUST > FEED-ADJ > ADJ-MFRE



3. To make the setting value effective, turn OFF/ON the main power of the Host Machine.

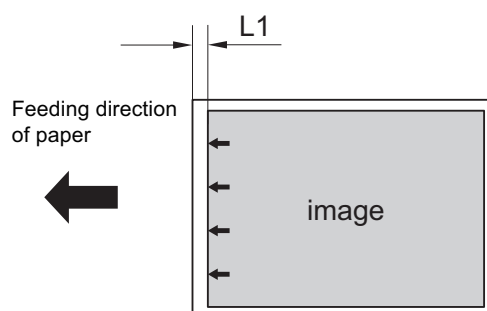
4. Write down the new adjustment value on the service label.

- ADJ-MFRE

■ Lead-edge Margin Adjustment (1st side)



1. Make copy from Cassette 1, and check that the lead-edge margin is $L1 = 4.0 +1.5 / -1.0$ mm.



< In Case of Out of Range >



2. Change the left edge margin adjustment value for the 1st side of the Cassette 1.

If the value of service mode is increased by "1", the left edge margin becomes 0.1mm smaller.

COPIER > ADJUST > FEED-ADJ > REGIST

3. To make the setting value effective, turn OFF/ON the main power of the Host Machine.

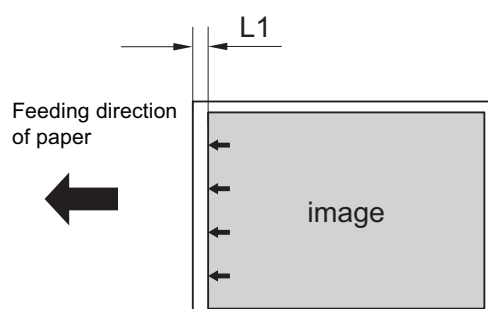
4. Write down the new adjustment value on the service label.

- REGIST

■ Lead-edge Margin Adjustment (2nd side)



1. Make 2-sided copy from cassette 1, and check that the lead-edge margin on the 2nd side is $L1 = 4.0 +1.5 / -1.0$ mm.



< In Case of Out of Range >

**2. Change the left edge margin adjustment value for the 2nd side of the Cassette 1.**

If the value of service mode is increased by "1", the left edge margin becomes 0.1mm smaller.

COPIER > ADJUST > FEED-ADJ > REG-DUP1

3. To make the setting value effective, turn OFF/ON the main power of the Host Machine.**4. Write down the new adjustment value on the service label.**

- REG-DUP1

Checking Network Connection

■ Overview

If the user network environment is TCP/IP, use Ping function to check that the network setting is properly executed.

If the user network environment is IPX/SPX or Apple Talk, skip this procedure.

■ Network Setting

CAUTION:

Use the network cable of rank 5e or higher. In addition, use of shield type (STP cable) is recommended. When non-shield type (UTP cable) is used, the surrounding electronic equipments may be interfered via the network cable.

1. Turn OFF the main power switch.
2. Connect the network cable to the host machine and turn ON the main power switch.
3. Inform the system administrator at the installation site that the installation of the host machine is

complete, and ask for network connection of the host machine.

NOTE:

Network setting cannot be executed unless logging in as an administrator.

Factory default password is as follows.

- System administration division ID: Administrator
- System administration password: 7654321

CAUTION:

Following setting needs to be ON to perform network setting:

- [Settings/Registration] > [Preferences] > [Network] > [Confirm Network Connection Set. Changes]
- [Settings/Registration] > [Preferences] > [Network] > [TCP/IP Settings] > [IPv4 Settings] > [Use IPv4]

4. Turn OFF the main power switch.**5. Turn ON the main power switch.**

■ Ping Operation Procedure

1. Select [Settings/Registration] > [Preferences] > [Network] > [TCP/IP Settings] > [IPv4 Settings] > [PING Command].
2. Enter IP address with numeric keypad on the control panel and press "Start" key. "Response from the host" is displayed if Ping operation is successful. "No response from the host" is displayed if Ping operation fails.

■ Checking with Remote Host Address

You can check whether the network is connected or not by using remote host address to execute Ping.

Remote host address: IP address of PC terminal that is connected to/works with TCP/IP network environment, which connects to this host machine.

1. Inform the system administrator to execute checking of network connection using Ping.
2. Check the remote host address with the system administrator.
3. Enter the remote host address to PING.
 - "Response from the host": The machine is properly connected to the network.
 - "No response from the host": Execute the following troubleshooting because the machine is not connected to the network.

Troubleshooting of Network

■ Checking Connection of the Network Cable

To check whether the network cable is properly connected to the LAN Port.

■ Ping Operation Procedure

1. Ask the network administrator at the user's site to note the IP address of the PC that is connected to the network.
2. Select: [Settings/Registration] > [Preferences] > [Network] > [TCP/IP Settings] > [IPv4 Settings] > [PING Command], and enter the IP address of PC, and then press "Execute" key.
 - If the display shows "Response from the host", the network connection is properly functioning.
 - If the display shows "No response from the host", go to the next step for another checking.

■ Checking Network Setting of the Host Machine

Check if the IP address specified on the host machine is correct.

1. Select the following: [Settings/Registration] > [Preferences] > [Network] > [TCP/IP Settings] > [IPv4 Settings] > [IP Address Settings], and note the IP address in the IP Address field.
2. Select the following: [Settings/Registration] > [Preferences] > [Network] > [TCP/IP Settings] > [IPv4 Settings] > [PING Command], and enter the IP address.
 - If the display shows "Response from the host", the IP address specified on the host machine is correct.
 - If the display shows "No response from the host", go to the next step for another checking.

NOTE:

When entering an address by manual operation, set the Subnet Mask according to the instructions of the user administrator.

■ Checking Network Function on the Main Controller

Check with the loopback address:

1. Select: [Settings/Registration] > [Preferences] > [Network] > [TCP/IP Settings] > [IPv4 Settings] > [PING Command], and enter the IP address

"127.0.0.1" with the numeric keypad and press the Execute key.

- If the display shows "Response from the host", the network of the main controller is properly functioning.
- If the display shows "No response from the host", the network function of the main controller is faulty.

2. Replace with a main controller that works properly, and the check connection.

Operation when using uniFLOW Online

When using uniFLOW Online*, follow the setup procedures on the uniFLOW* Online First Steps Guide (http://www.nt-ware.com/uFO_FS).

* China version of "uniFLOW" is called "mdsFLOW".

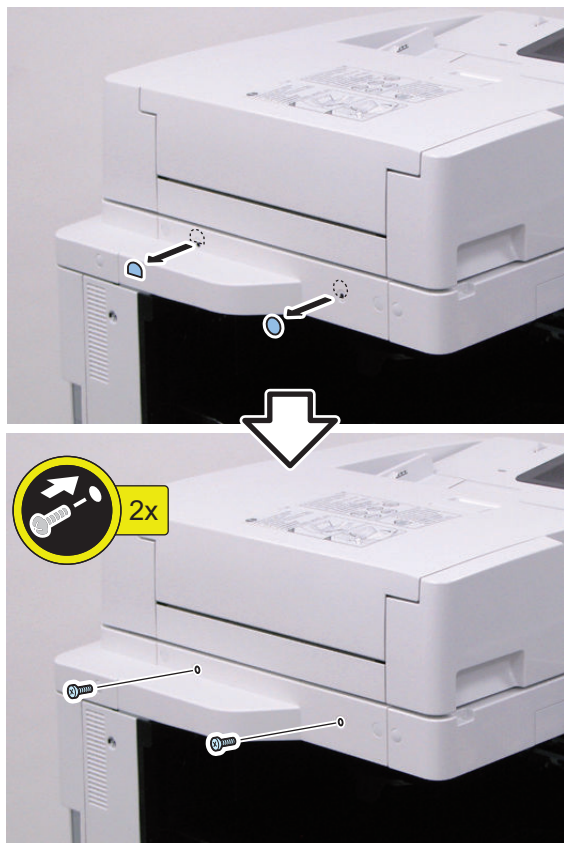
When Relocating the Machine

When relocating this machine by truck or by other means for some reasons after installing the machine, perform the following procedure.

CAUTION:

In case of relocating the machine while it is mounted on the Cassette Pedestal, be sure to check that the coin screw has been tightened securely before holding the grips of the machine to lift when, for example, passing over a difference in level of the floor. Holding the grips of the machine when lifting will result in separation of the machine from the Cassette Pedestal.

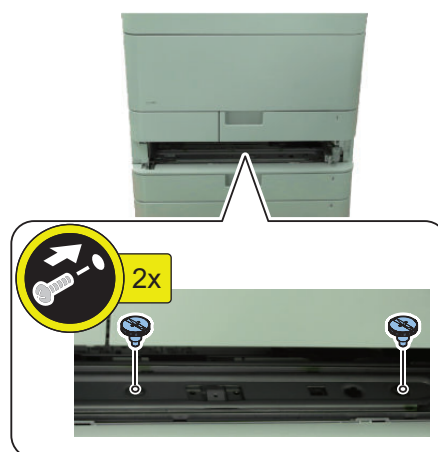
-
- 1. Move the Scanner Unit to the position where to fix on the following service mode (Lv. 2).
COPIER > FUNCTION > MISC-R > RD-SHPOS
-
- 2. Turn OFF the main power.
-
- 3. Disconnect the power plug of the host machine.
-
- 4. Secure the Scanner Unit with the Scanner System Fixation Screws that have been kept in a safe place since installation.



-
- 5. Securely tighten the Coin Screws of the host machine and the 2-cassette Pedestal (including the High Capacity Cassette Pedestal).

CAUTION:

- When tightening the Coin Screws, pay attention to plates and parts around the screws.
- Be sure to check that the Coin Screws have been tightened securely.



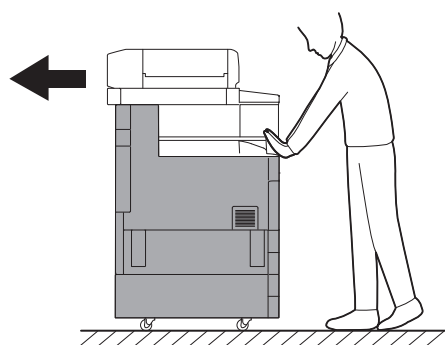
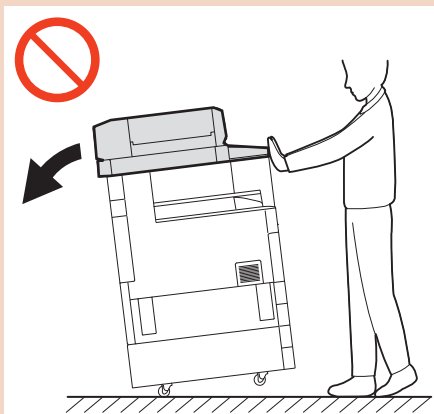
-
- 6. Put a sheet of paper on the Copyboard Glass.
-
- 7. If the Cassette Pedestal is installed, turn the 4 adjusters of the Cassette Pedestal with a screwdriver, etc. to lift them from the floor.



8. When moving the machine, be sure to push the position indicated in the figure.

CAUTION:

Be sure not to push the upper side of the machine strongly from the front side, otherwise it can fall over. (Especially in the case of the carpet floor.)



9. After the relocation, reinstate the host machine to the operable state.

- Secure the machine in place with the 4 adjusters.
- Remove the paper placed on the Copyboard Glass.
- Make sure none of the Coin Screws are loose.
- Remove the Scanner System Fixation Screws.



10. Turn the power ON and make a copy to make sure no image failure occurs.

Printer Cover-J1

Points to Note before Installation

After installation of the Printer Cover, be sure to change the setting of the following service mode to "0" before turning OFF the power of the host machine. Otherwise, an error may occur when turning ON the power.

COPIER > OPTION > FNC-SW > W/SCNR

Points to Note at Installation

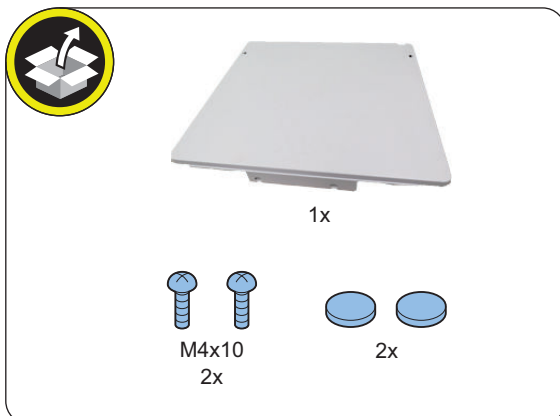
CAUTION:

Marked portion

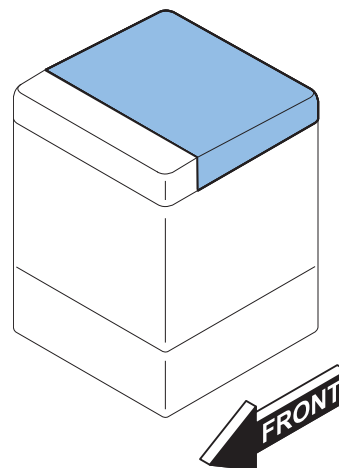
When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.



Checking the Contents



Installation Outline Drawing



Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:

- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

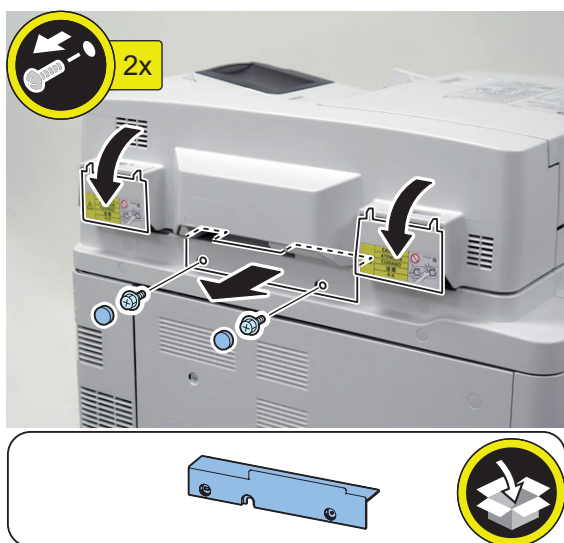
- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Procedure

1.

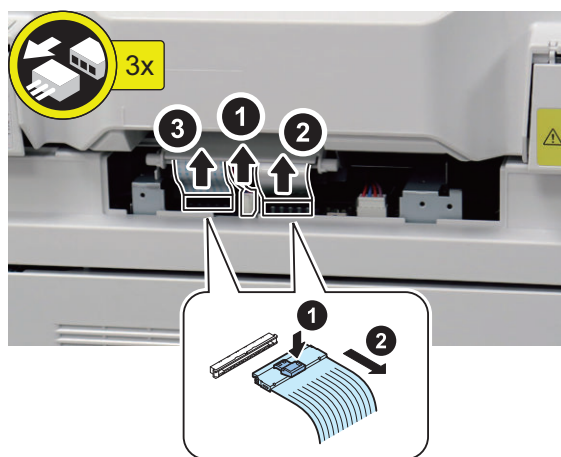


2.

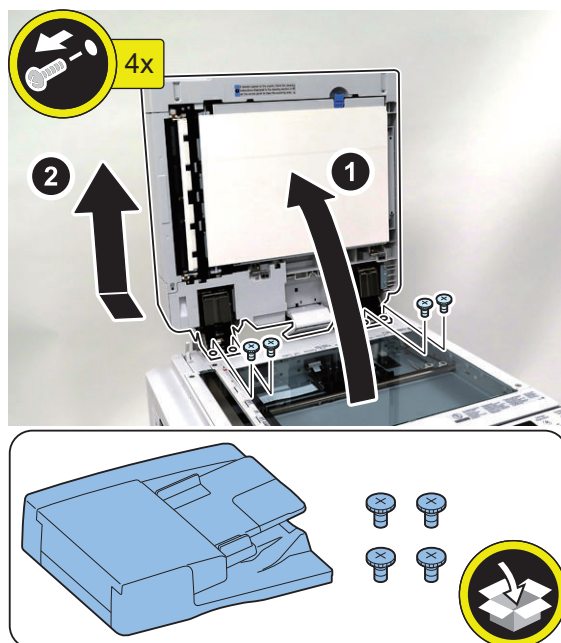


NOTE:
The removed screws and rubber caps will be used in step 11.

3.



4.





NOTE:
The parts removed in the following steps 5, 6, and 7 will be used in step 9.

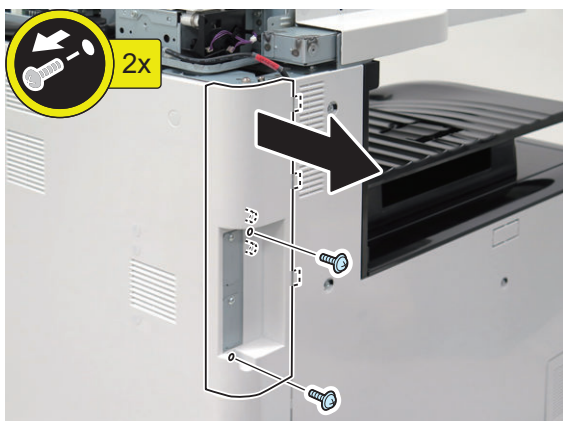


8.

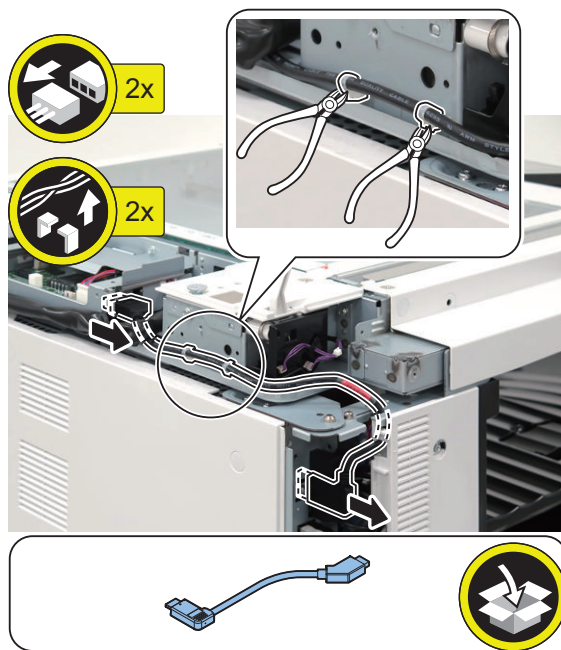
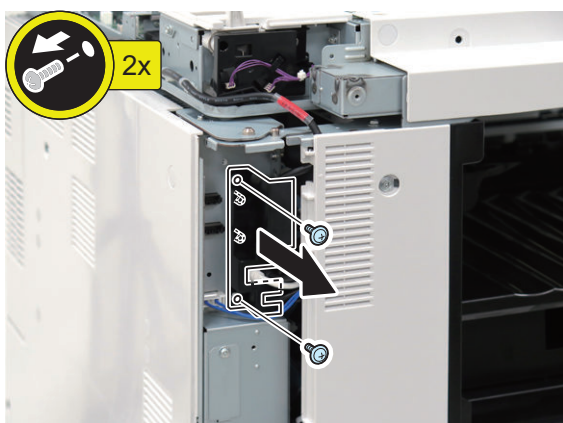
5.



6.

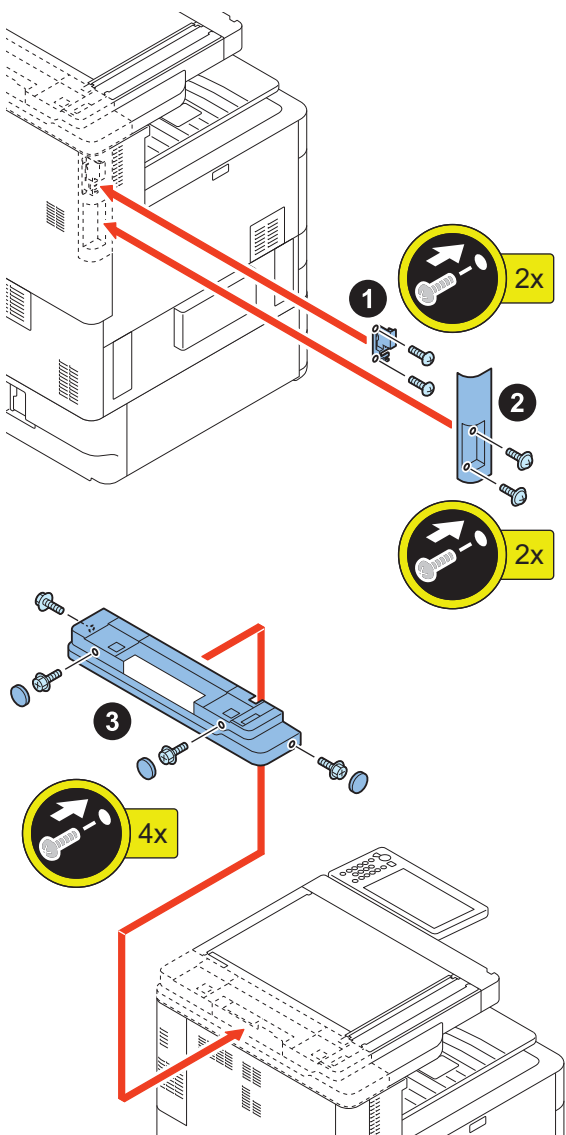


7.



9.

NOTE:
Use the parts removed in steps 5, 6, and 7.

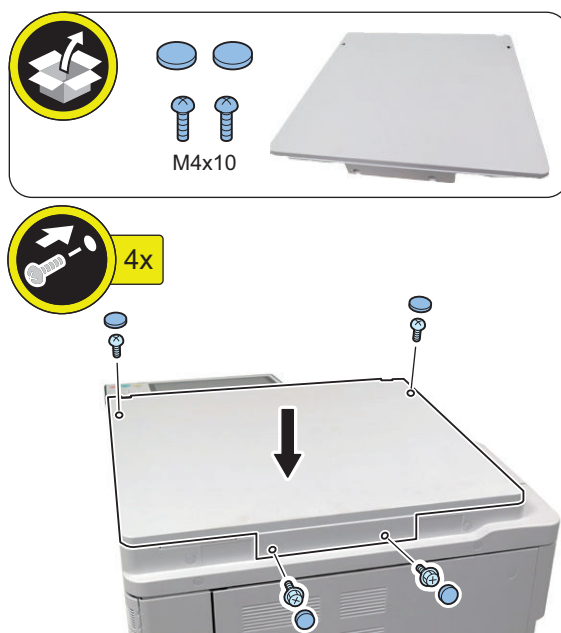


10.



11.

NOTE:
Use the screws and rubber caps removed in step 2.



Operation Check

1. Connect the power plug of the host machine to the outlet.

2. Turn ON the main power switch.**CAUTION:**

If "E732-0023" is displayed after turning ON the main power switch, turn OFF and then ON the main power switch, and then perform the following steps.

3. The message confirming the cable connection of the Reader Unit is displayed.**4. Set "0" for the following service mode.**

COPIER > OPTION > FNC-SW > W/SCNR

5. Exit service mode.**6. Turn OFF and then ON the main power switch.**

Platen Cover Type W

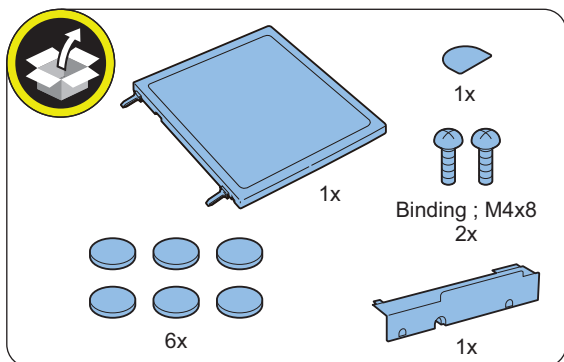
Points to Note at Installation

CAUTION:

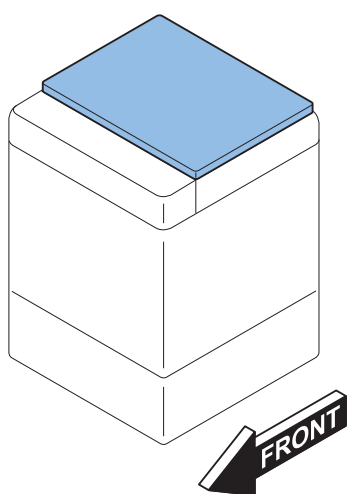
Marked portion
When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.



Checking the Contents



Installation Outline Drawing



Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

WARNING:

- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Procedure

1.

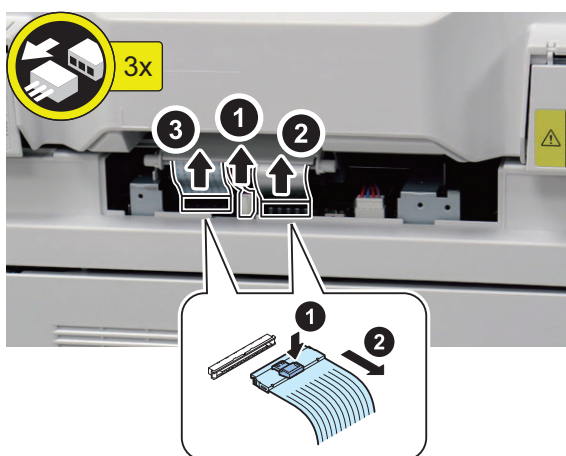


□
2.

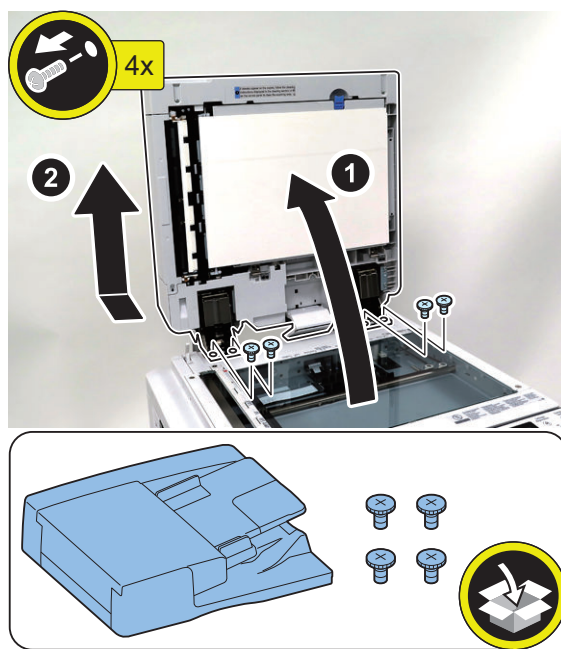


NOTE:
The removed screws and Rubber Caps will be used in step 6.

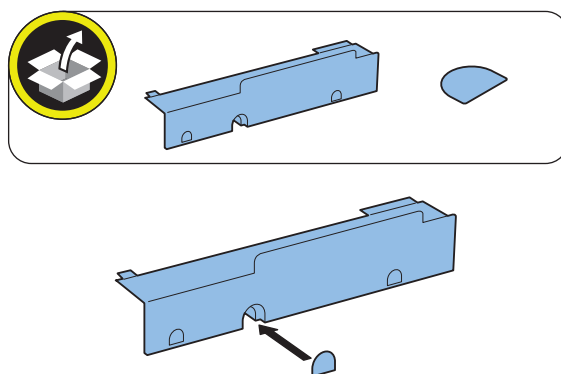
□
3.



□
4.



□
5.

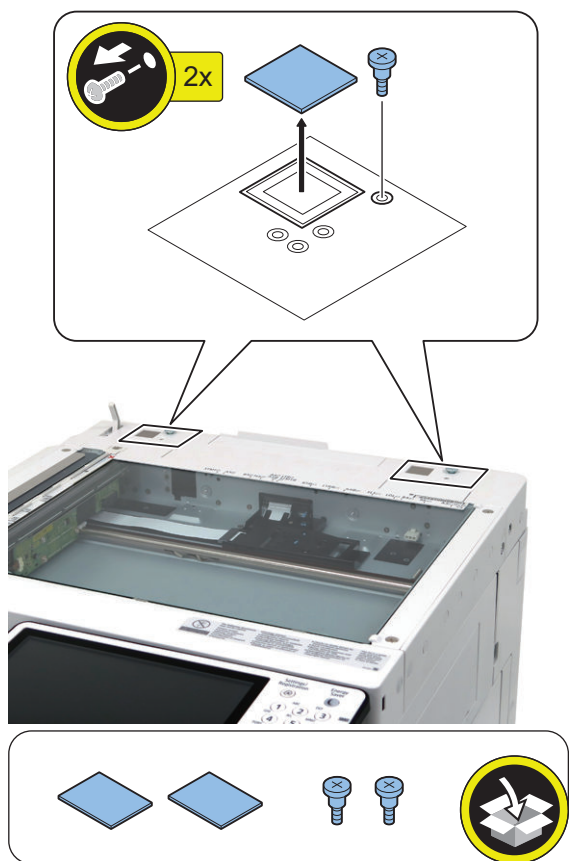


□
6.

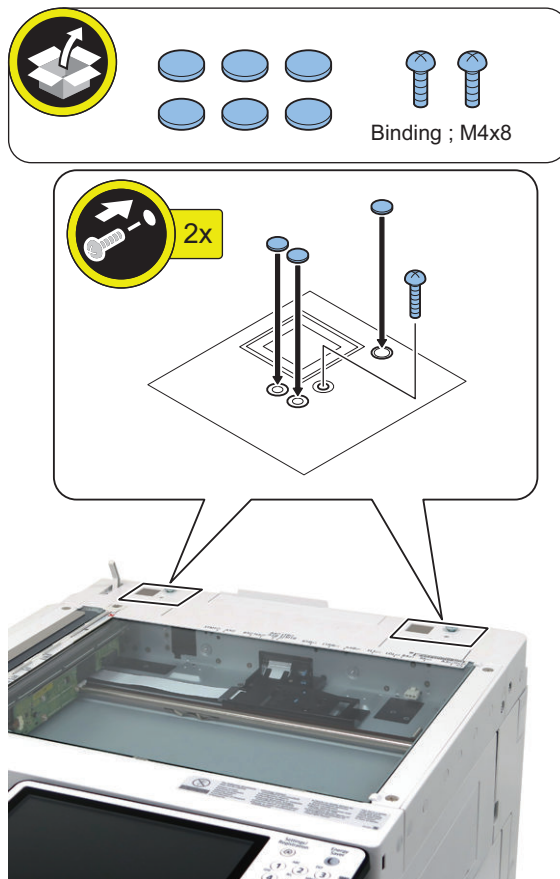
NOTE:
Use the screws and Rubber Caps removed in step 2.



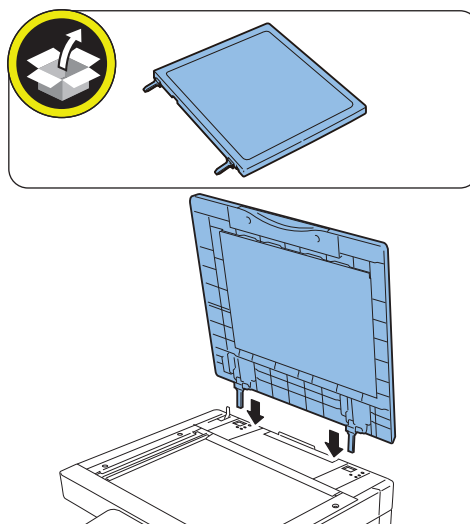
7.



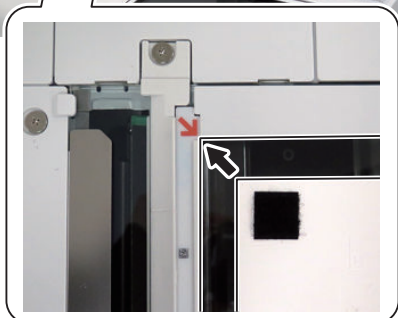
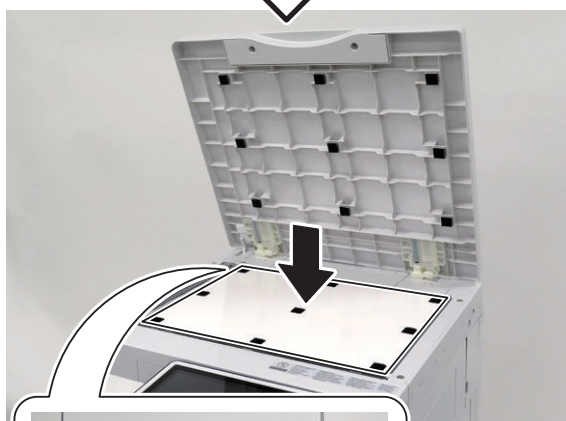
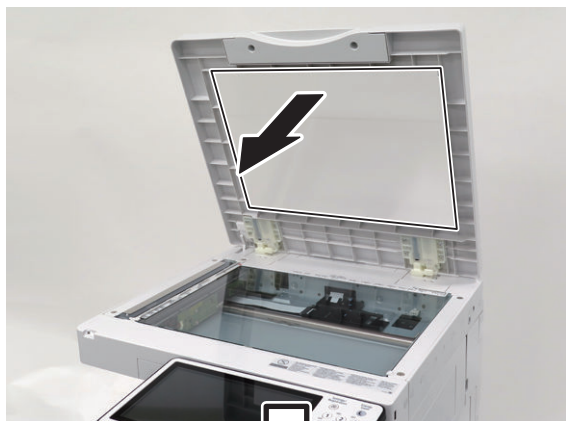
8.



9.



□
10.

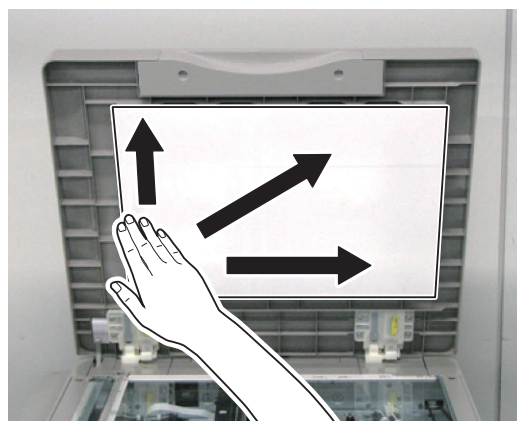


□
11.



□
12.

CAUTION:
If the White Plate is pressed downward, it is placed on the Index Sheet, so be sure to press it upward.



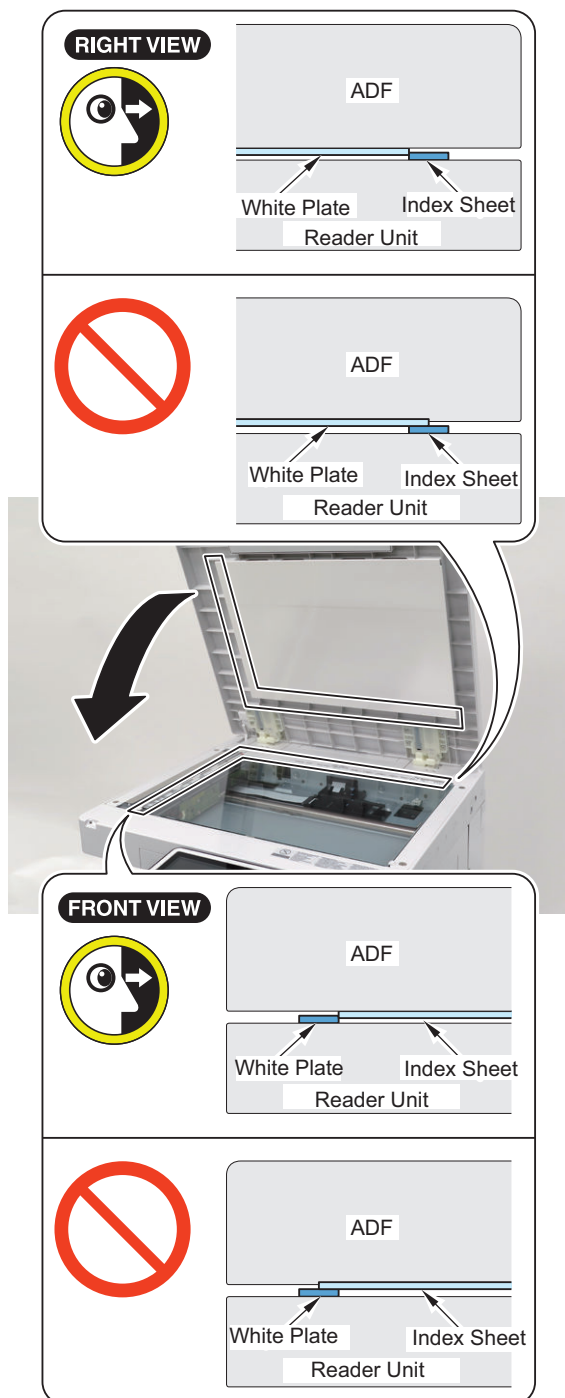
□
13.

CAUTION:

- Be sure that there is no gap (for reference, 0.3 mm or less) between the White Plate and the Index Sheet.
- Check that the White Plate is not placed on the Index Sheet.

□
14. Connect the power plug of the host machine to the outlet.

□
15. Turn ON the main power switch.



Reader Heater Unit-J3

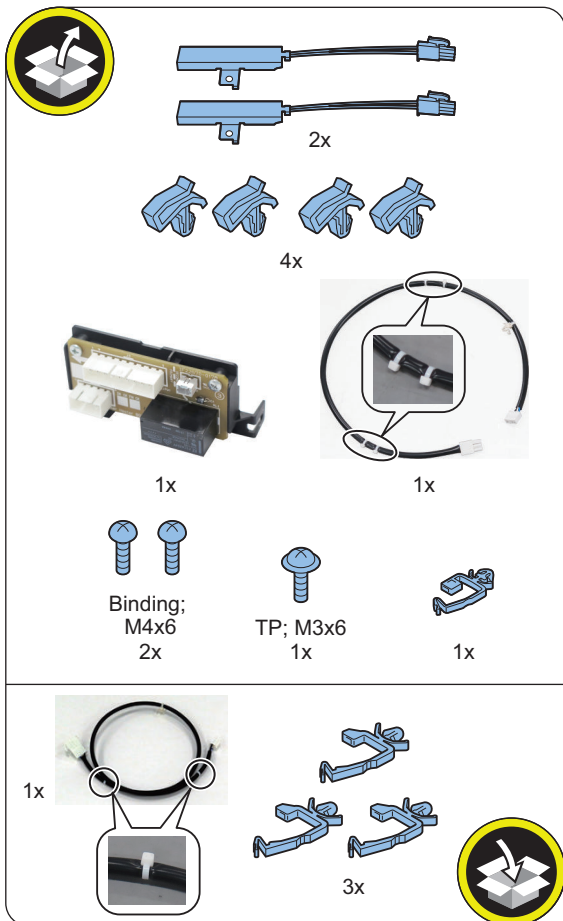
Points to Note at Installation

CAUTION:

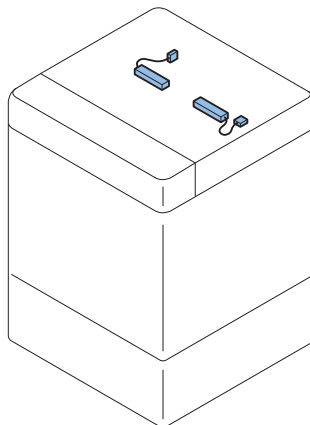
Marked portion
When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.



Checking the Contents



Installation Outline Drawing



Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:

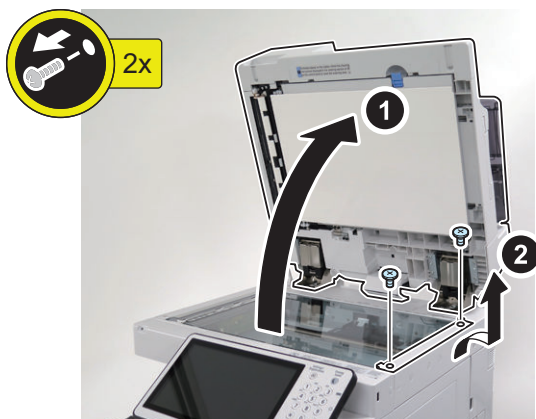
- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Procedure

■ Installing the Reader Heater

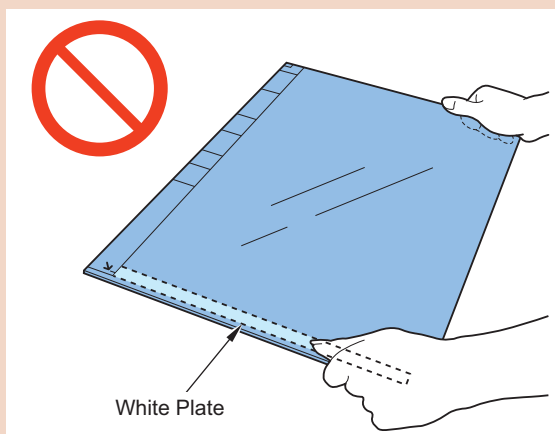
□
1.



□
2.

CAUTION:

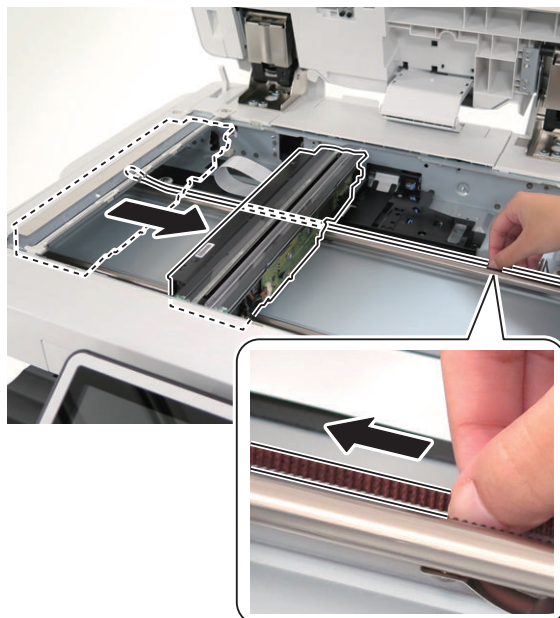
- Soiling on the glass surface and the White Plate affects reading. When removing or installing the Copyboard Glass, be sure not to touch the glass surface and the White Plate.
- If soiling is attached, clean it with lint-free paper.



□
3.

CAUTION:

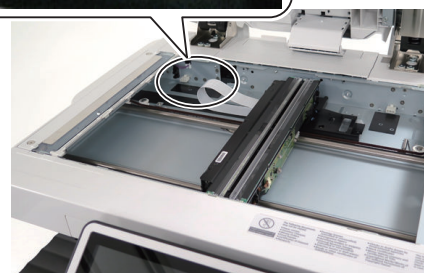
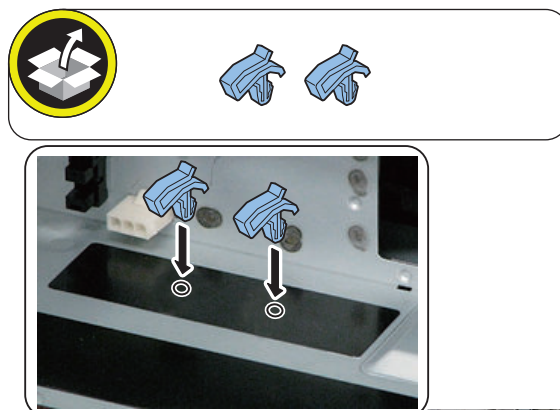
Pull the rear side of the Drive Belt in the direction of the arrow to move the Scanner Box to the center.



□
4.

NOTE:

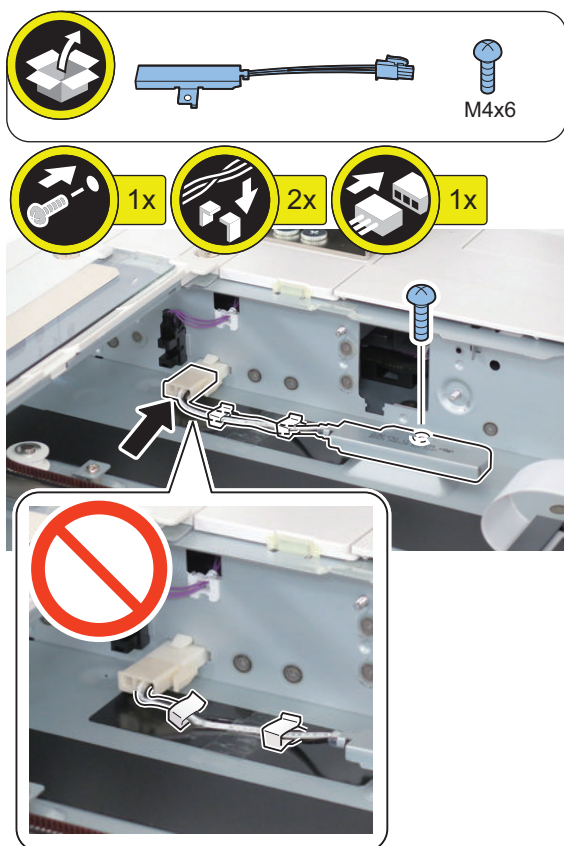
Install the Cable Clamps in the direction as shown in the figure.



5.

CAUTION:

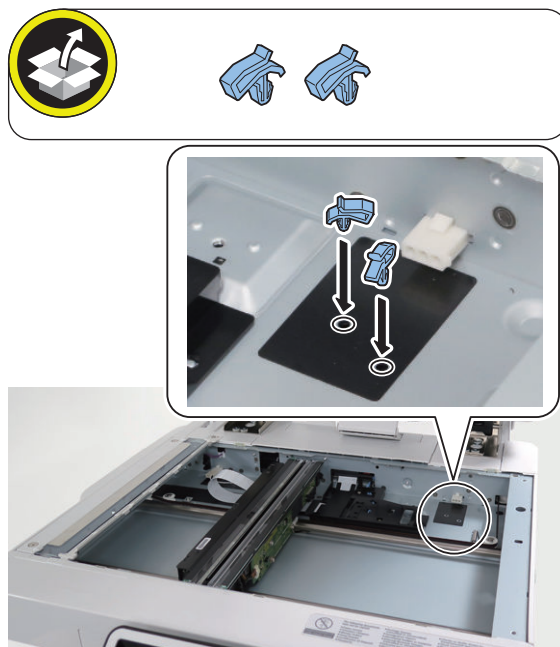
Be sure to hold down the Reader Heater Harness because it may interfere with moving of the Scanner Box if it is not connected properly.



6.

NOTE:

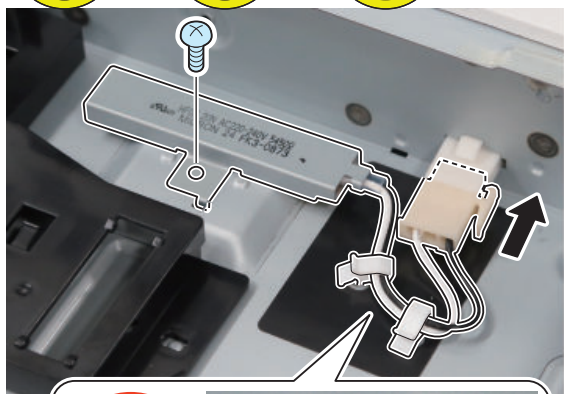
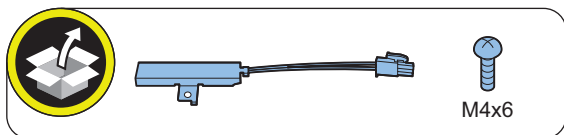
Install the Cable Clamps in the direction as shown in the figure.



7.

CAUTION:

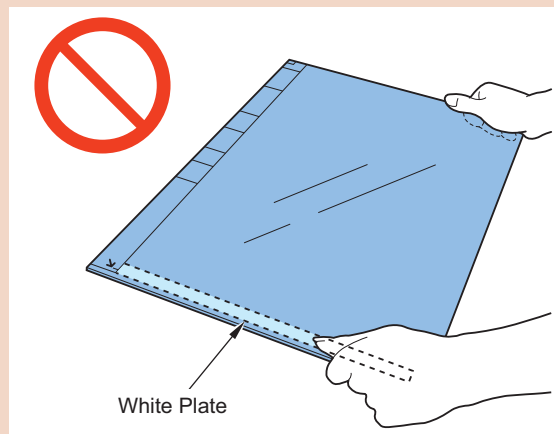
Be sure to hold down the Reader Heater Harness because it may interfere with moving of the Scanner Box if it is not connected properly.

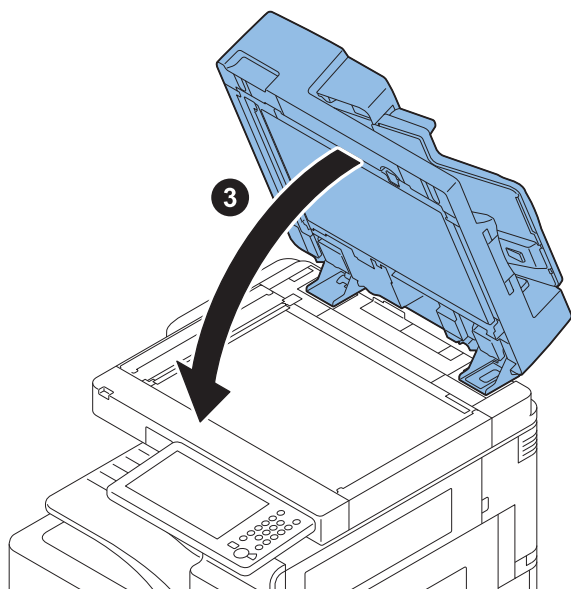
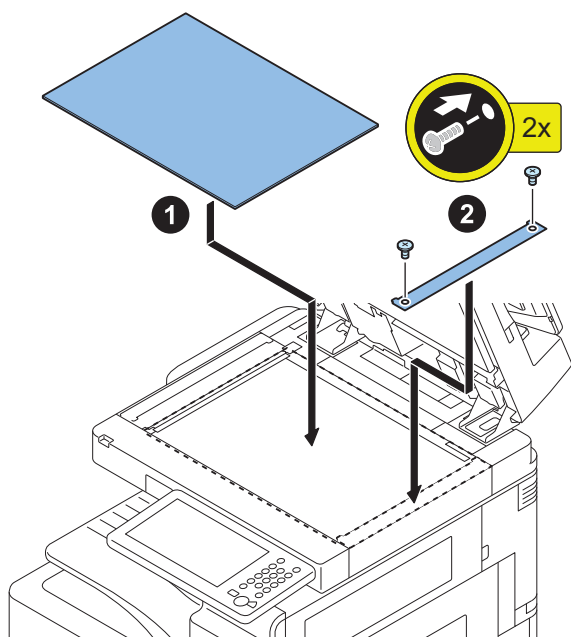


8.

CAUTION:

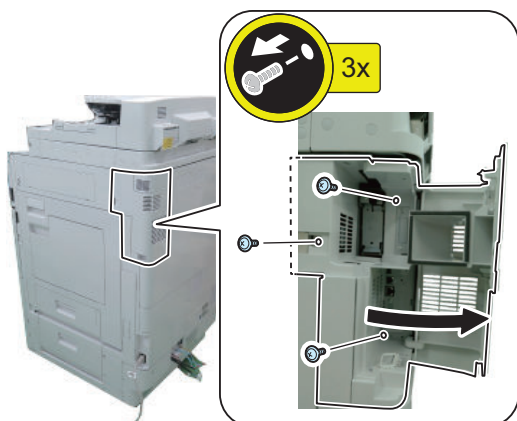
- Soiling on the glass surface and the White Plate affects reading. When removing or installing the Copyboard Glass, be sure not to touch the glass surface and the White Plate.
- If soiling is attached, clean it with lint-free paper.





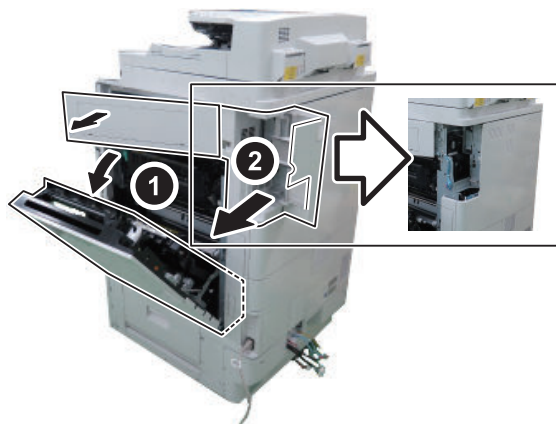
■ Installing the Relay PCB

1.

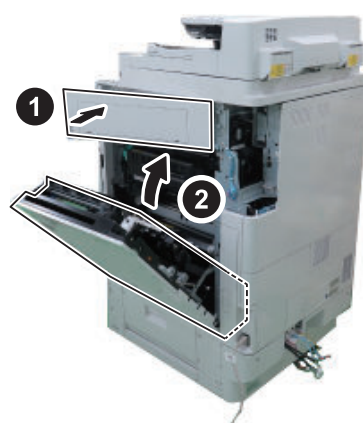


2.

NOTE:
Open the Right Lower Cover (the Right Upper Cover will open at the same time), and remove the Right Rear Cover 1.

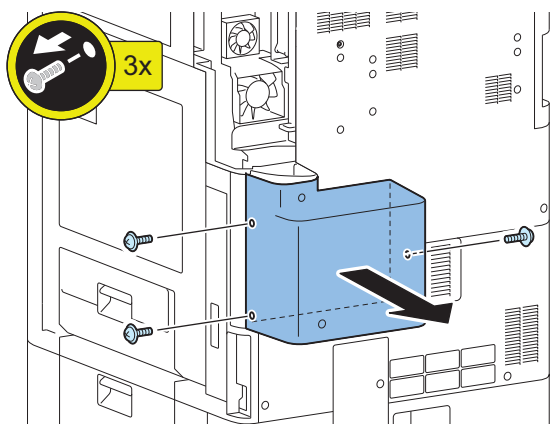


3.

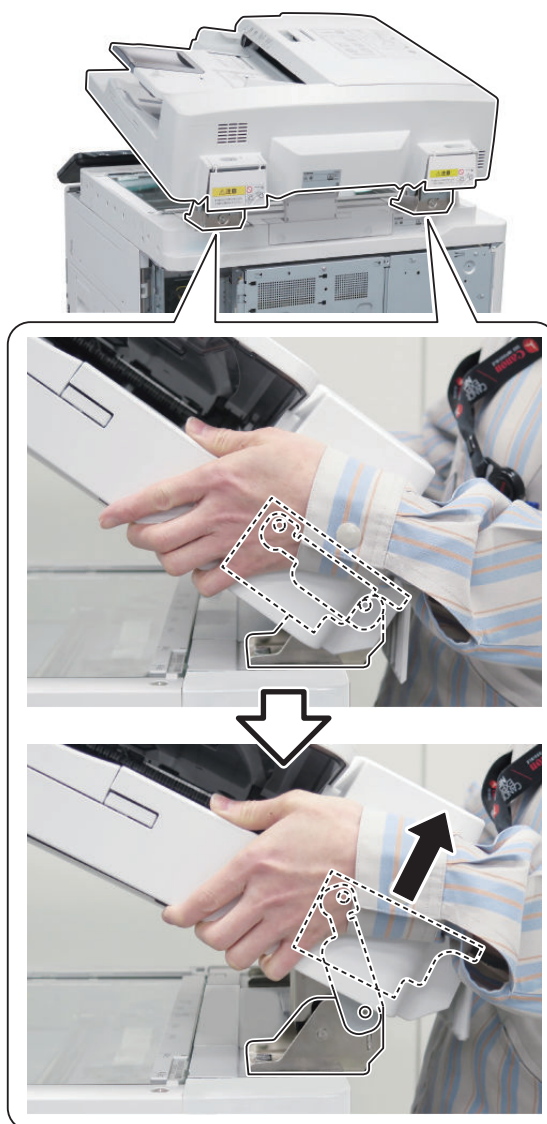


4.

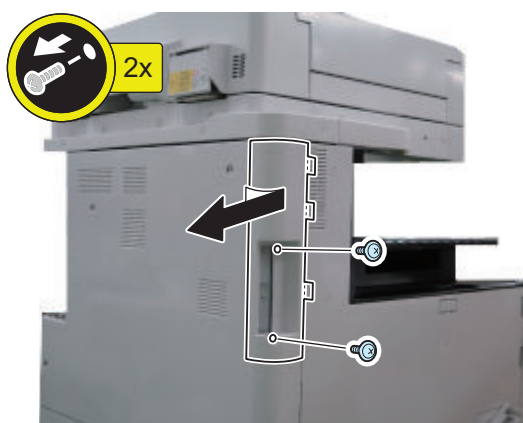
NOTE:
For the Duct Model (EUR only)



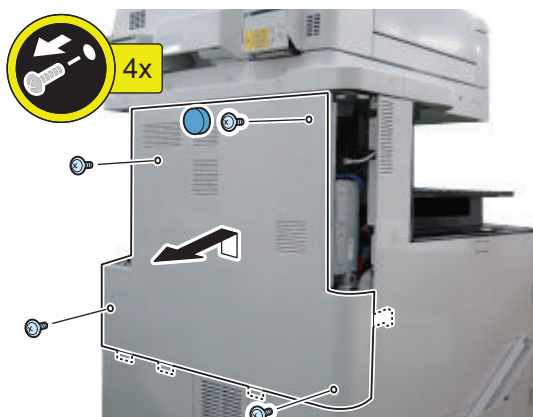
7.



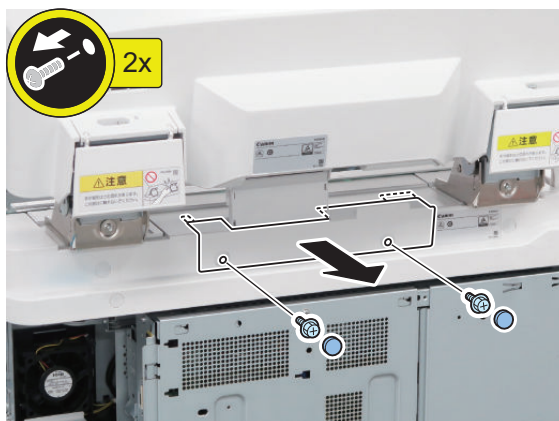
5.



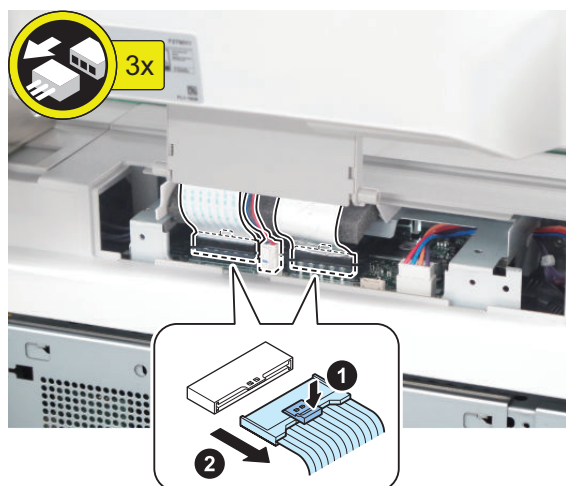
6.



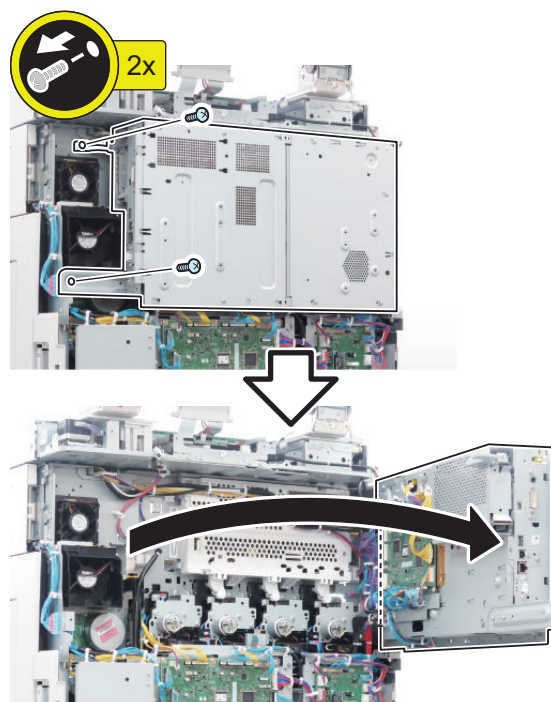
8.



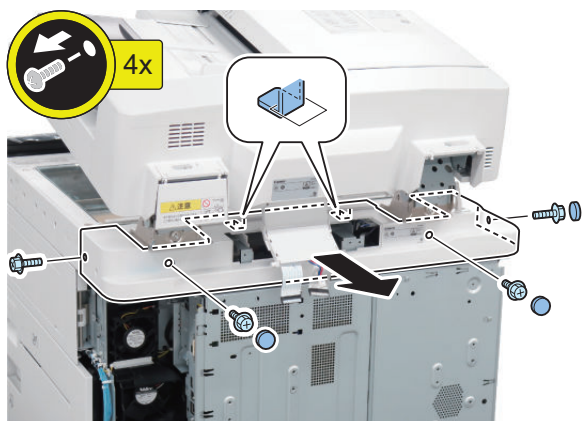
□
9.



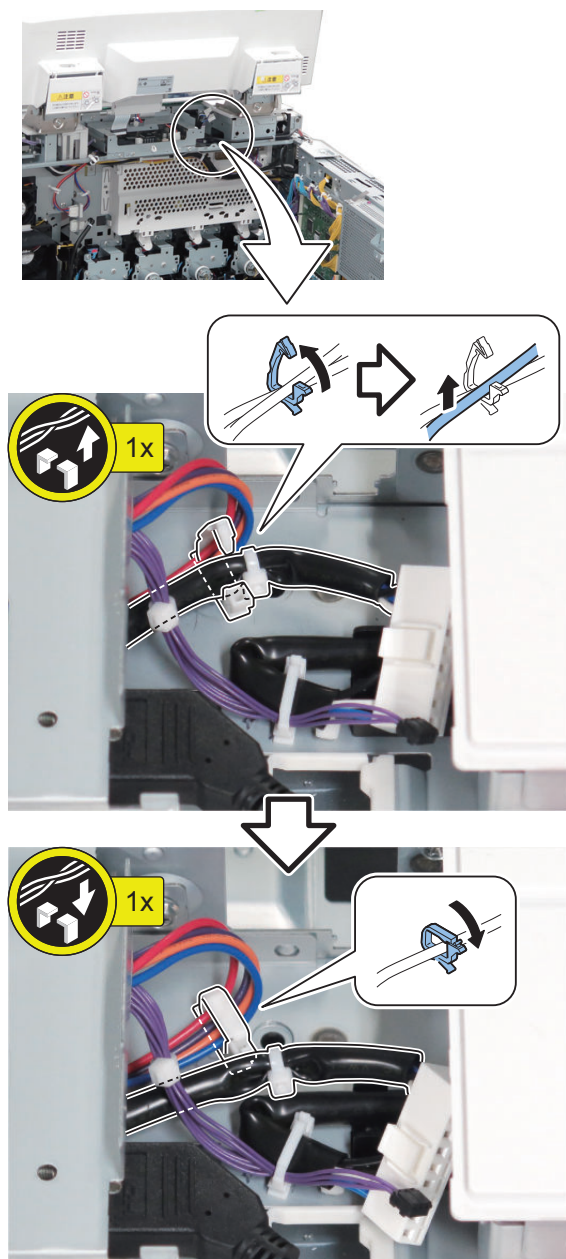
□
11.



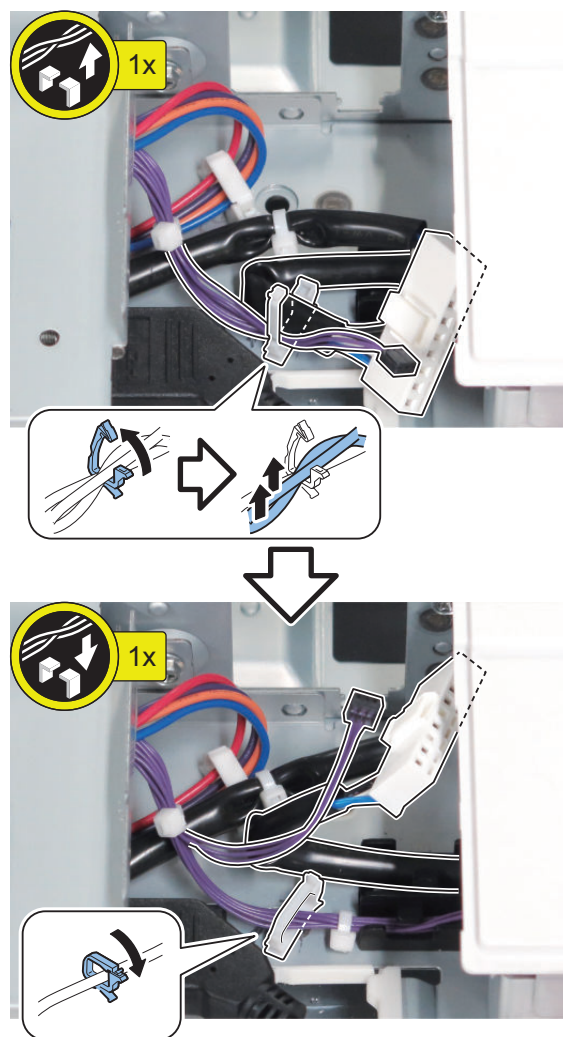
□
10.



□
12.



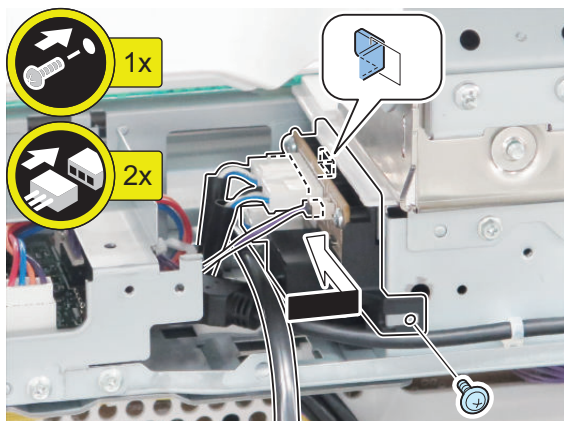
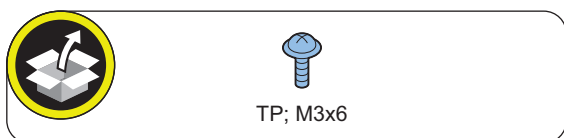
□
13.



□
14.

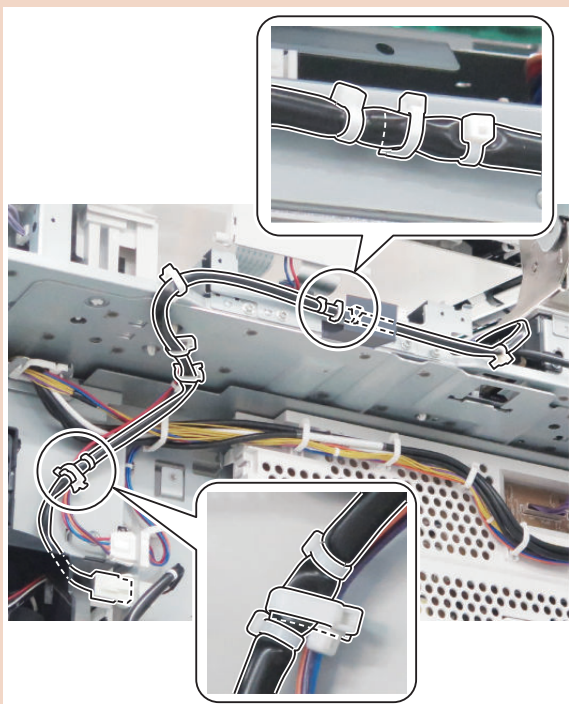


15.



CAUTION:

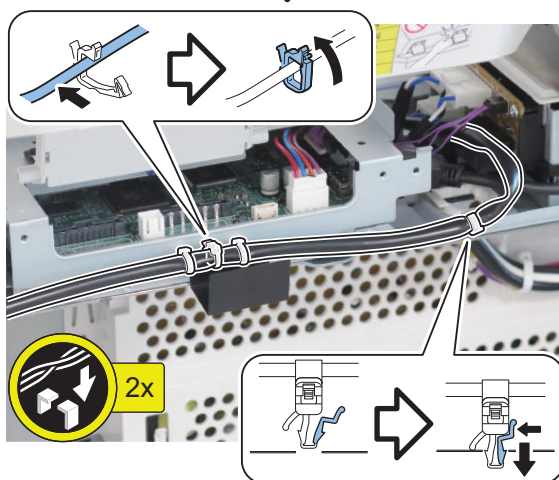
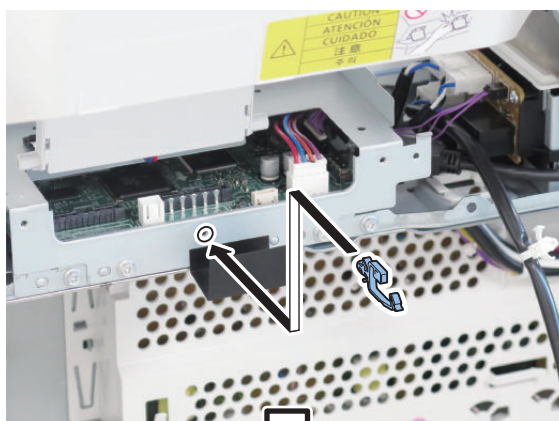
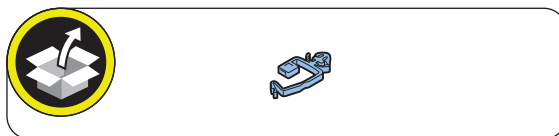
The following shows how the cable should be finished. Note the positions of wire saddles and proceed with Step 16 to 18.



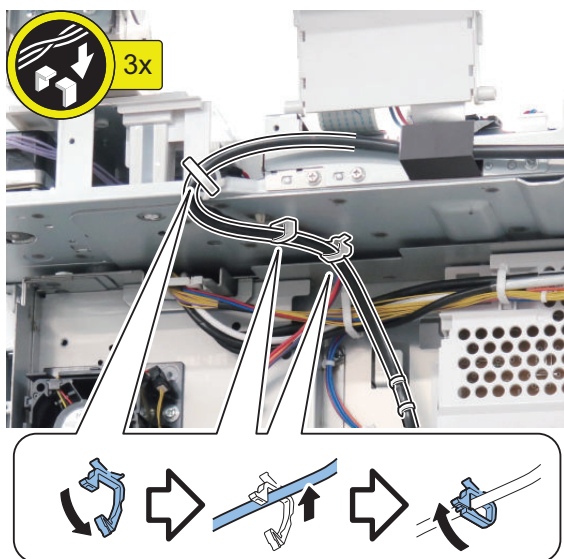
16.

CAUTION:

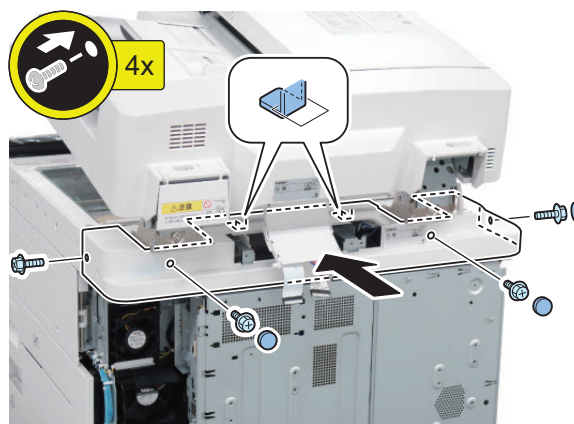
To prevent a wire pinch, secure in-between the harness bands with a wire saddle.



17.



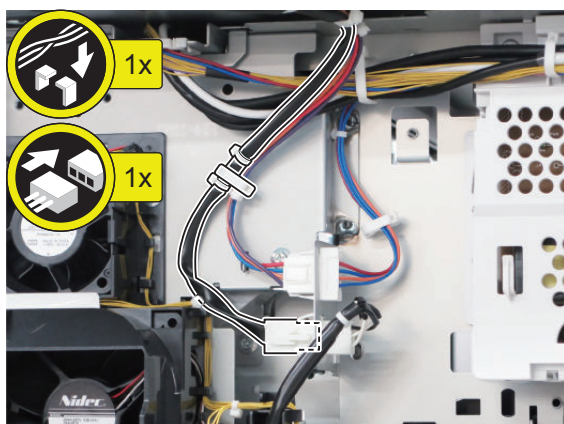
20.



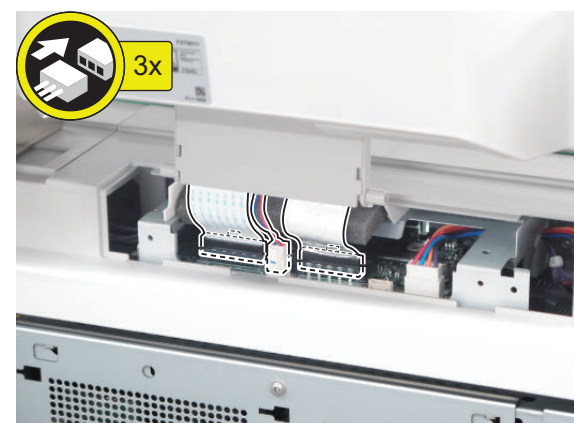
18.

CAUTION:

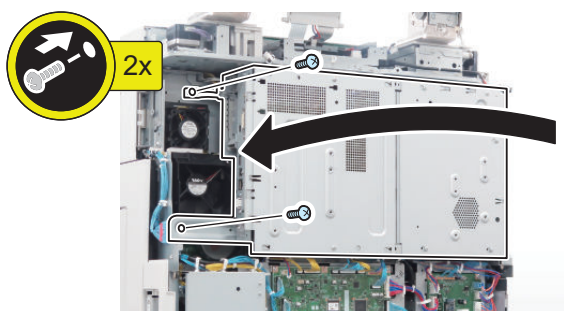
To prevent the connector from unplugging, secure in-between the harness bands with a wire saddle.



21.



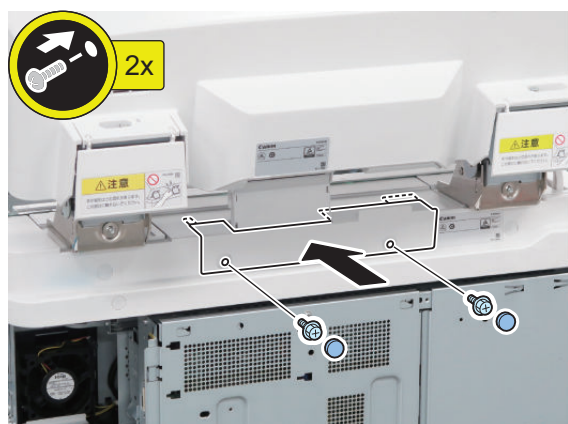
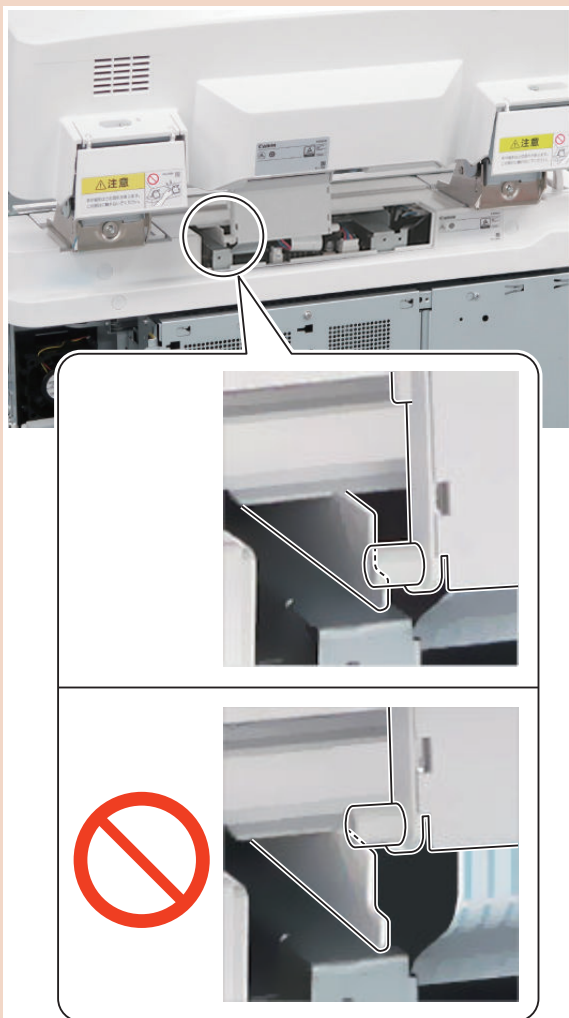
19.



□
22.

CAUTION:

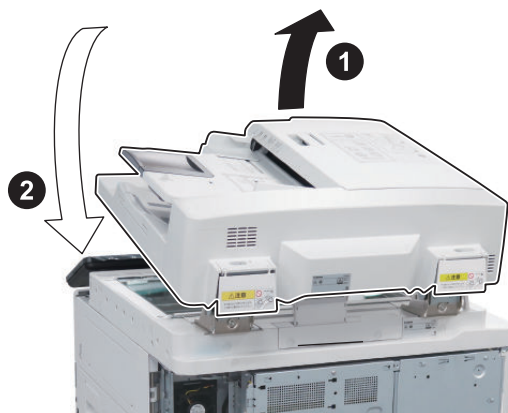
Install the cover with the protrusion positioned as shown in the illustration below.



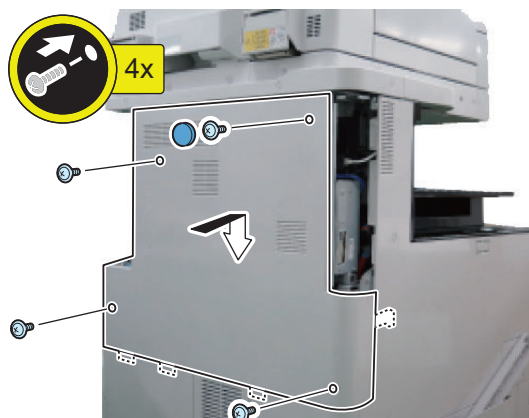
□
23.

NOTE:

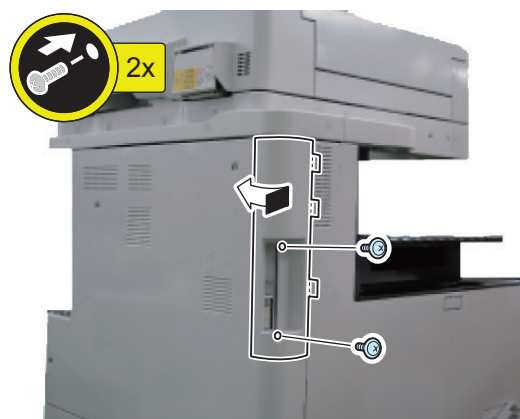
Close the ADF after it has been completely open.



□
24.

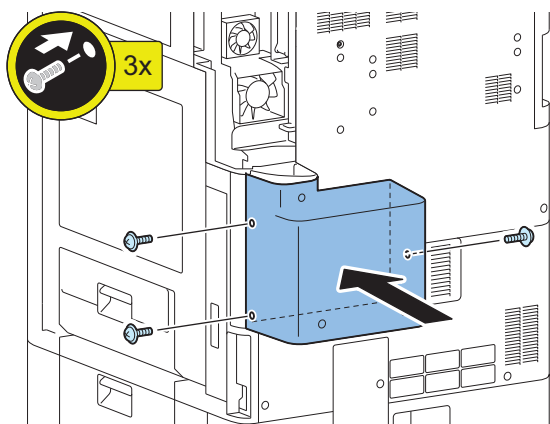


□
25.

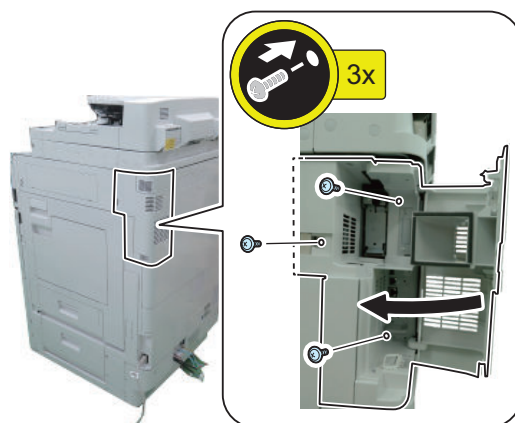


□
26.

NOTE:
For the Duct Model (EUR only)



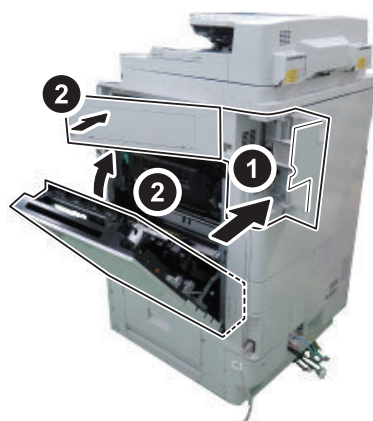
□
29.



□
27.



□
28.



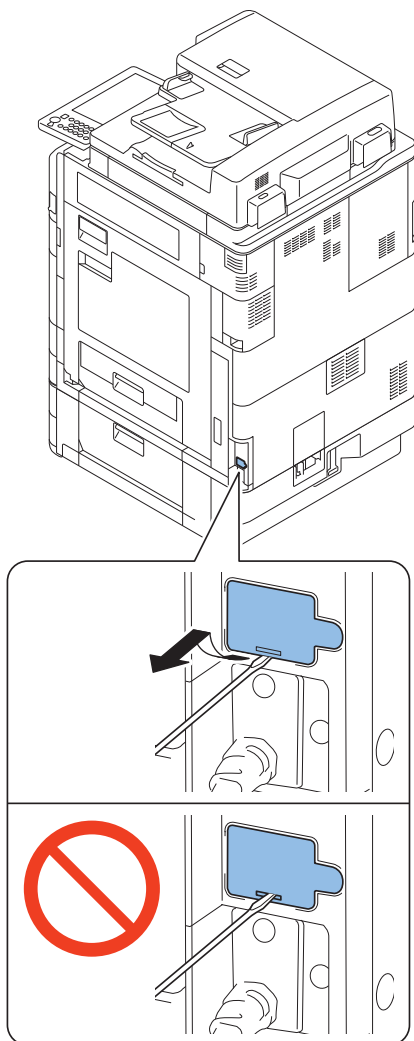
□
30.

NOTE:

If the Environment Heater Switch Cover is installed, remove the cover.

CAUTION:

Do not insert the screwdriver into the hole when removing the cover.

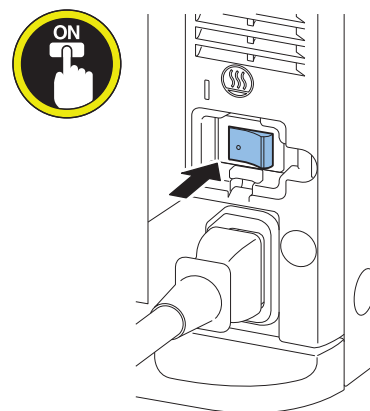
**NOTE:**

The removed Environment Heater Switch Cover will be used in step 32.

□
31.

NOTE:

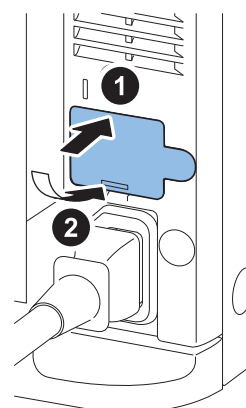
Check that the Environment Heater Switch is ON.



□
32.

NOTE:

Use the Environment Heater Switch Cover removed in step 30 or the Environment Heater Switch Cover included with the host machine.

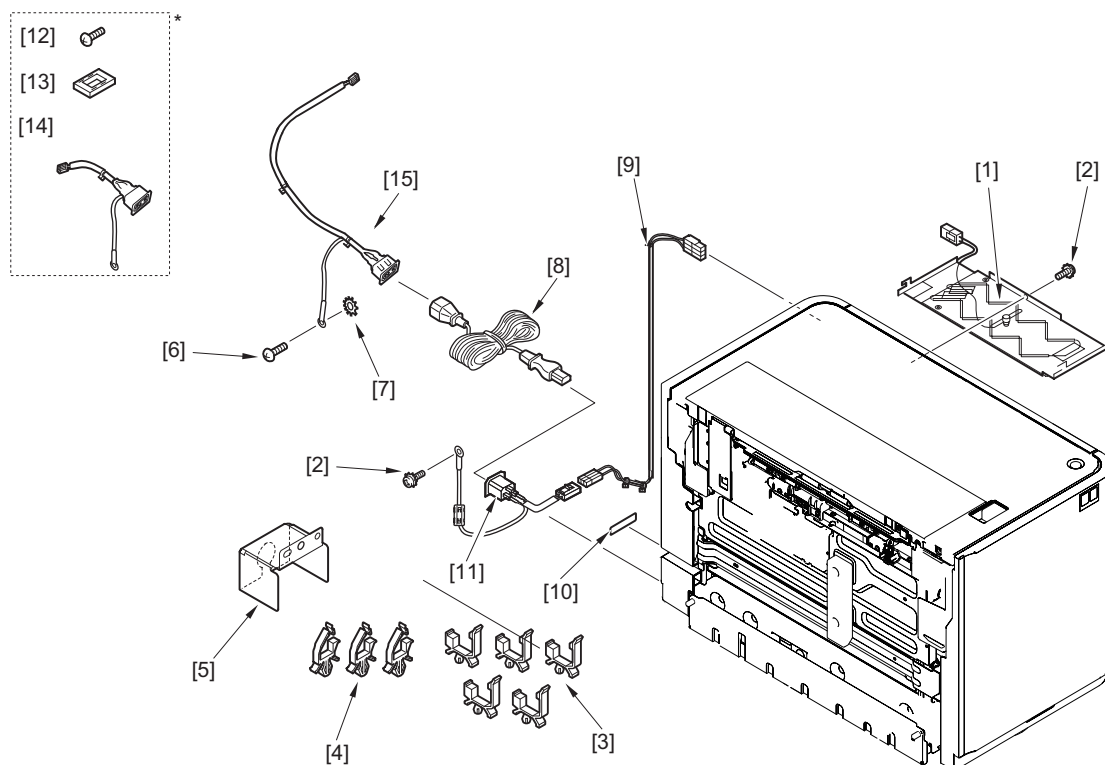


□
33. Connect the power plug of the host machine to the outlet.

□
34. Turn ON the main power switch.

Paper Deck Heater Unit-C1

Checking the Contents



- [1] Heater Unit 1pc
- [2] Screw (Toothed Washer Sems; M4x8) 2pcs
- [3] Wire Saddle (Black) 5pcs
- [4] Wire Saddle (White) 3pcs (1pc is not used)
- [5] Plug Cover 1pc
- [6] Screw (Binding ; M4x6) 1pc
- [7] Toothed Washer 1pc
- [8] AC Cable 1pc
- [9] Relay Harness Unit 1pc
- [10] Power Supply Label 2pcs (1pc is not used)
- [11] AC Input Connector 1pc
- [12] Screw (Binding ; M4x4) 1pc*
- [13] Cable Protection Bushing 1pc *
- [14] AC Output Connector (short) 1pc *
- [15] AC Output Connector (long) 1pc

*The parts [12][13][14] are not used for the installation of the Heater Unit.

<Others>
Including guides

Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:

- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Procedure

⚠ CAUTION:

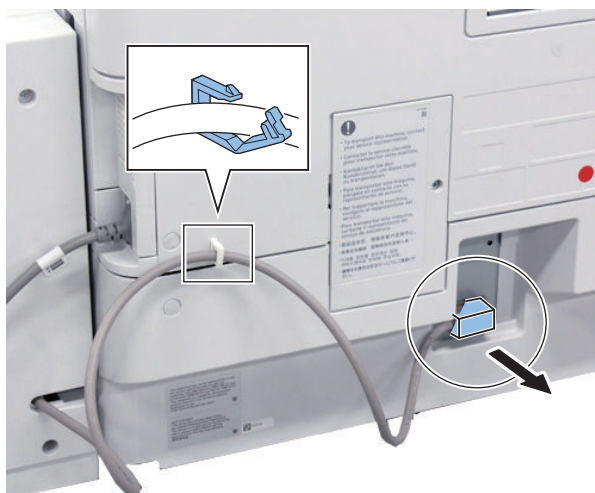
Check that the main power switch is OFF and the power plug is disconnected from the outlet.

■ Preparation of the Paper Deck Unit

□

1. Disconnect the Lattice Connector from the host machine.

- 1 Wire Saddle
- 1 Connector



□

2. Pull the Release Lever and then with draw the Paper Deck Unit until it stops.

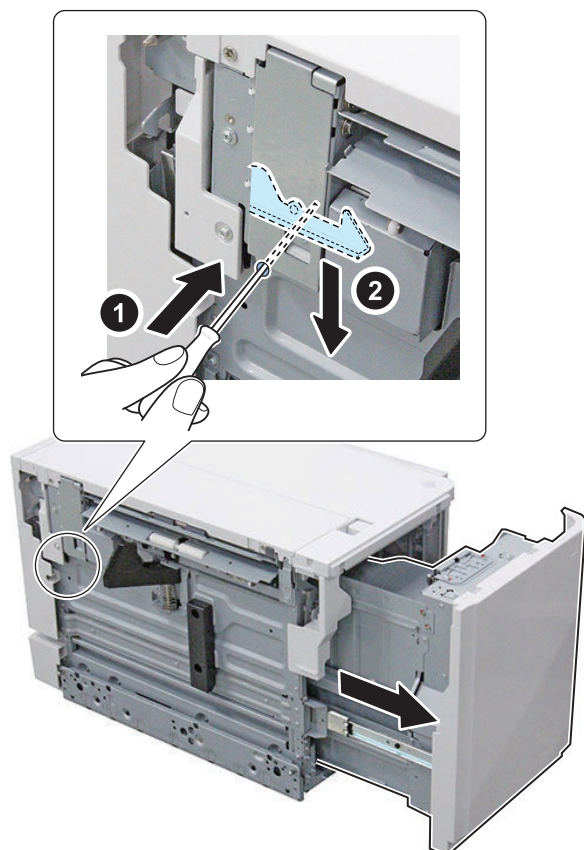




3. Insert screwdrivers into the hole at rear left side of the Compartment and then release the lever to open it.

NOTE:

Insert screwdrivers into the hole indicated by the arrow.



5. Cut the Face Cover from the Rear Cover.



CAUTION:

Be sure to remove the Face Cover properly so that no burr is formed.



4. Remove the Rear Cover.

- 5 Screws





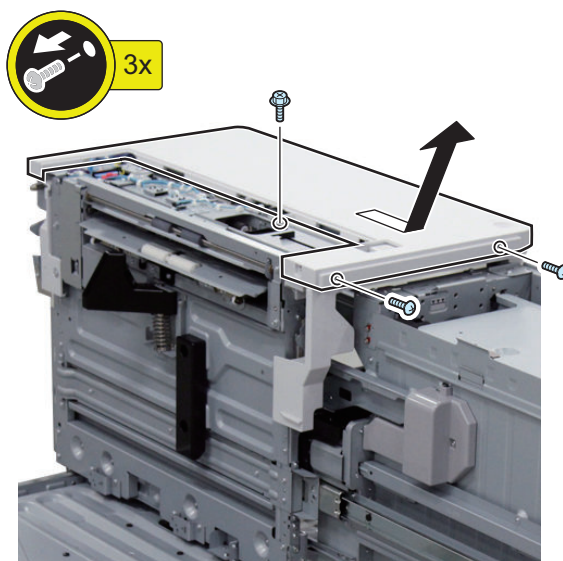
6. Remove the Right Cover.

- 5 Screws



8. Remove the Upper Cover.

- 3 Screws

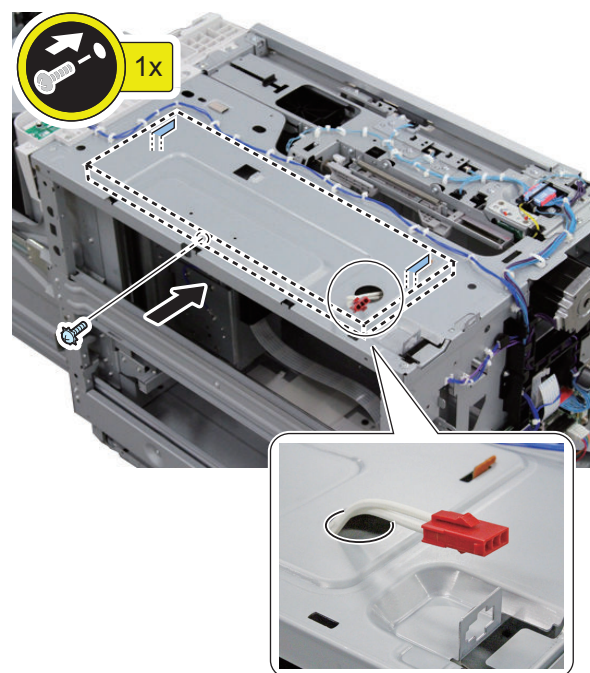
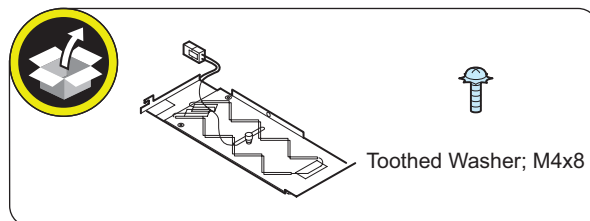


7. Loosen the 2 screws and then remove the Upper Left Cover.



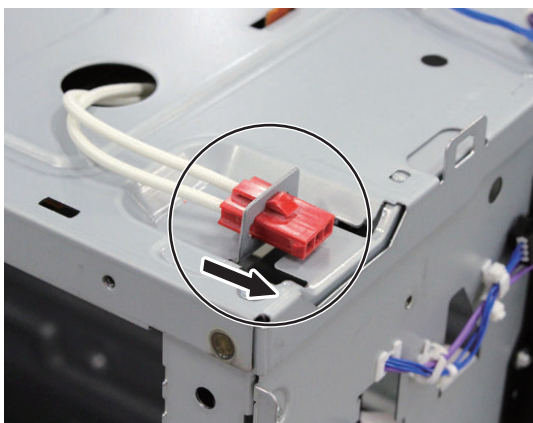
9. Put the connector through the hole in the top plate and then fix the Heater Unit.

- 2 Hooks
- 1 Screw (Toothed Washer Sems; M4x8)





10. Insert the connector of the Heater Unit to the panel mount part.

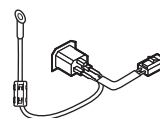
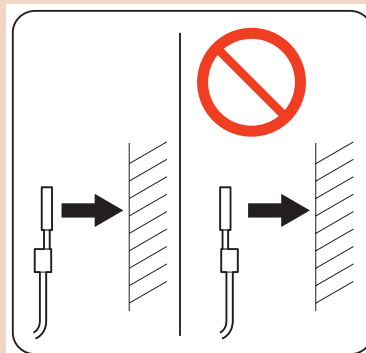


11. Install the AC Input Connector in the power cord mount.

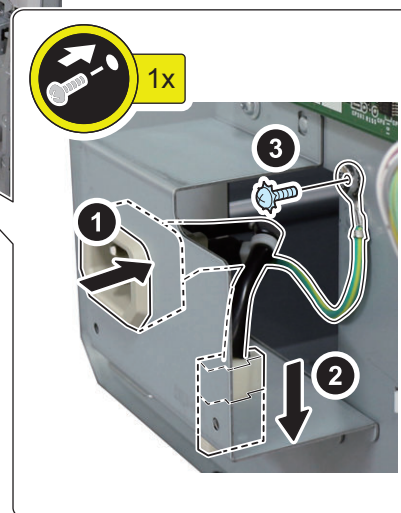
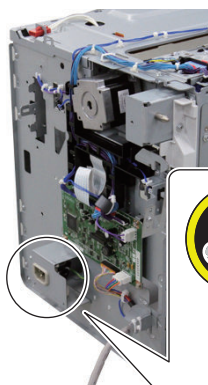
- 1 Screw (Toothed Washer Sems; M4x8)

CAUTION:

Fix the Grounding Cable in the correct direction.

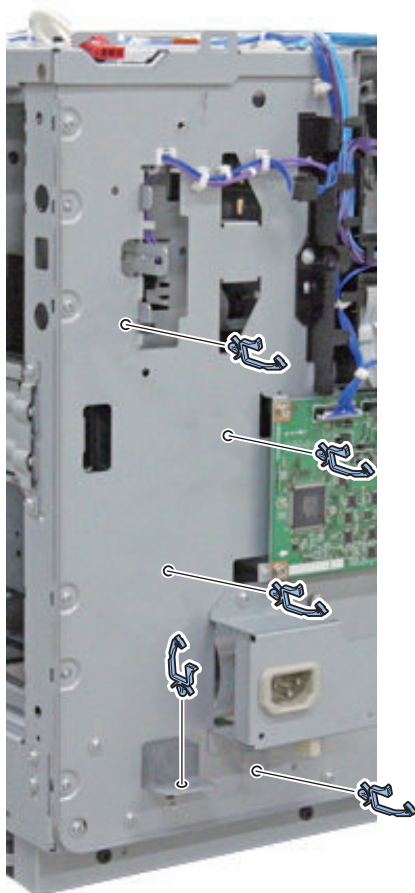
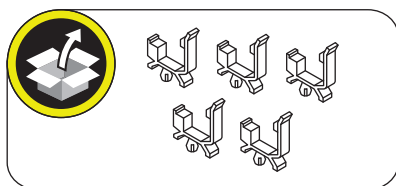


Toothed Washer; M4x8



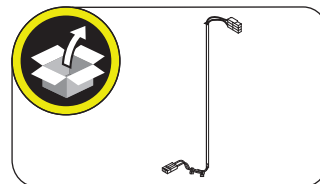


12. Install the Wire Saddles (black) as shown in the figure.



13. Connect the Relay Harness Unit and then fix it with the Wire Saddles (black) and Reuse Bands as shown in the figure.

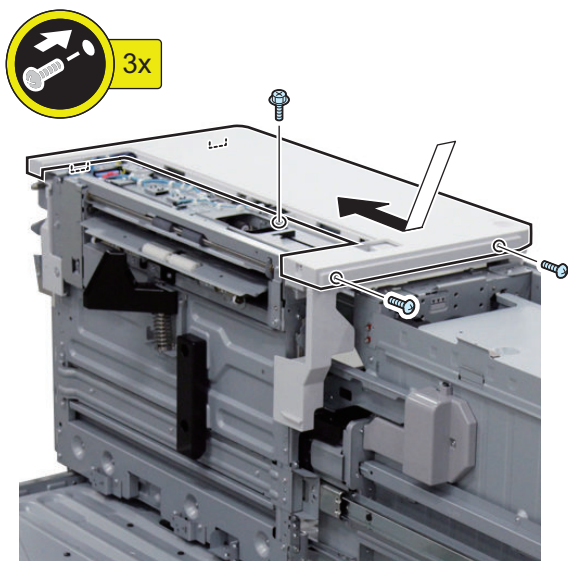
- 2 Connectors
- 2 Reuse Bands
- 5 Wire Saddles





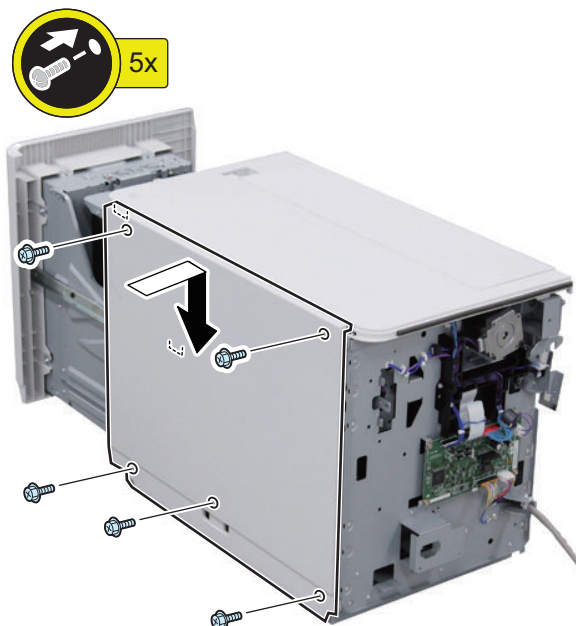
14. Install the Upper Cover.

- 2 Protrusions
- 2 Screws (P Tightening; M4x8)
- 1 Screw (RS tightening; M4x8)



16. Install the Right Cover.

- 2 Hooks
- 5 Screws (RS Tightening; M4x8)

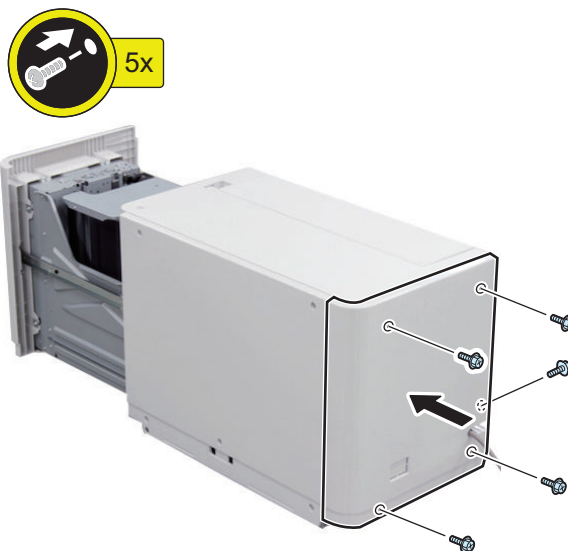


15. Fasten the 2 screws to install the Upper Left Cover.



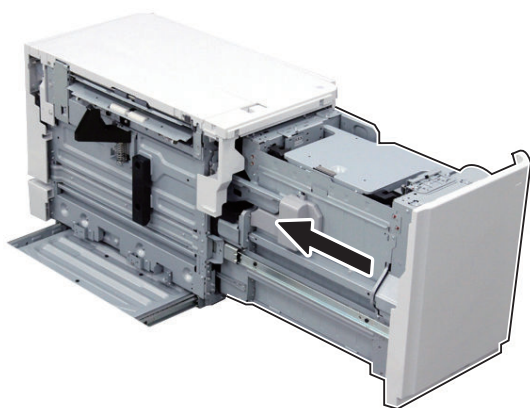
17. Install the Rear Cover.

- 5 Screws (RS Tightening; M4x8)





18. Close the Compartment and then connect the Paper Deck Unit with the host machine.

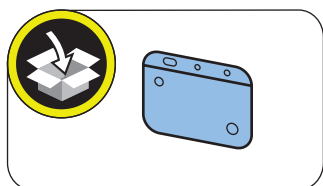
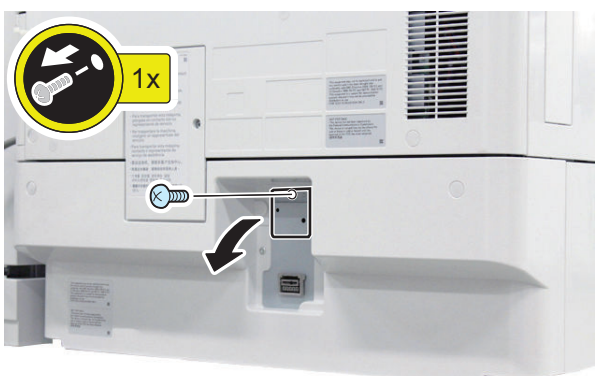


■ Preparation of the Host Machine



1. Remove the Deck Heater Plug Cover (The removed screw is used by a later procedure).

- 1 Screw



2. Remove the Connector Cover.

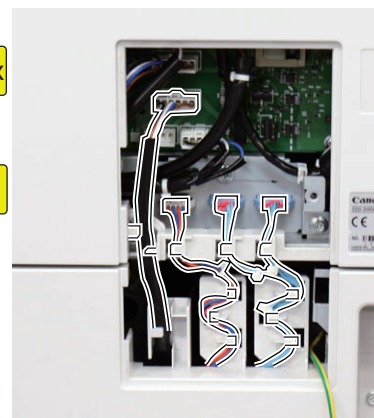
- 1 Screw



BACK VIEW

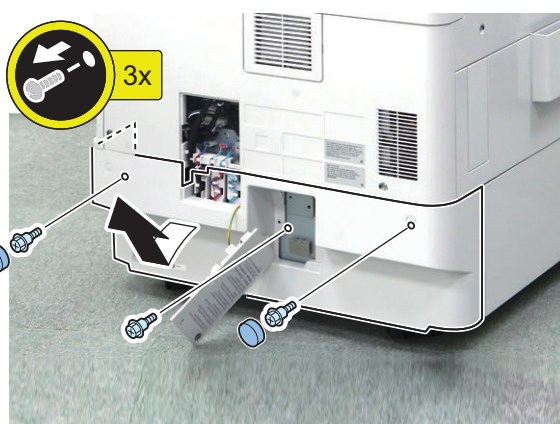


3. Disconnect the 4 connectors and remove the 11 Harness Guides.



4. Remove the Pedestal Rear Cover.

- 2 Rubber Caps
- 3 Screws



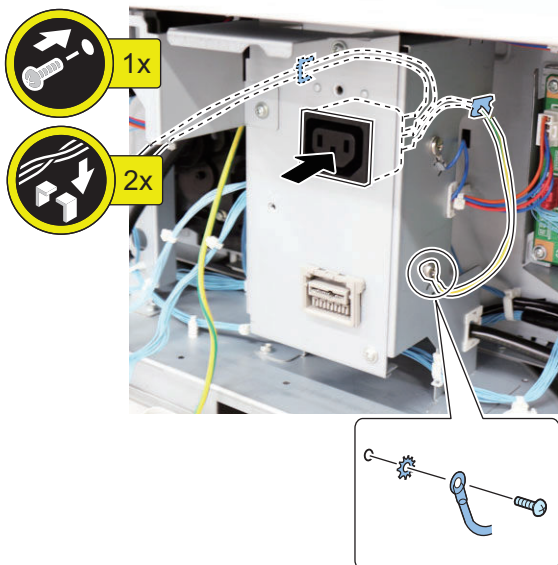
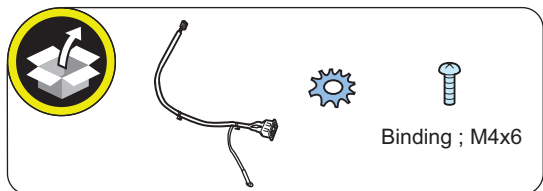
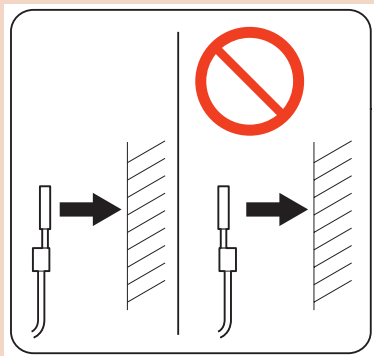


5. Install the AC Output Connector (long).

- 2 Wire Saddle
- 1 Screw (Binding ; M4x6)
- 1 Toothed Washer

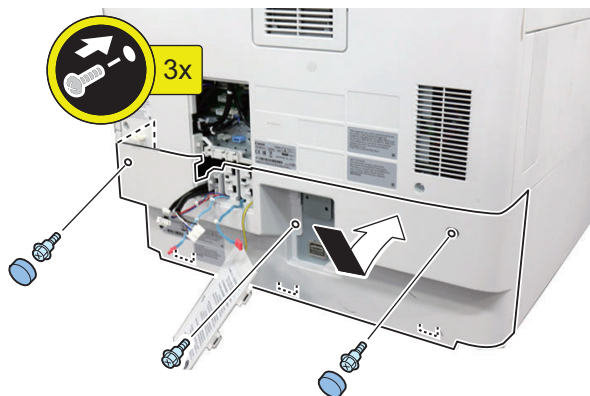
CAUTION:

Fix the Grounding Cable in the correct direction.

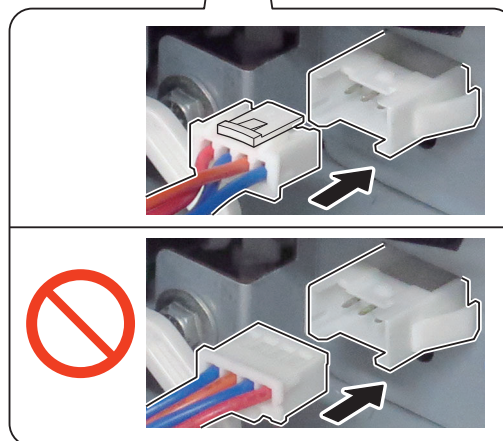
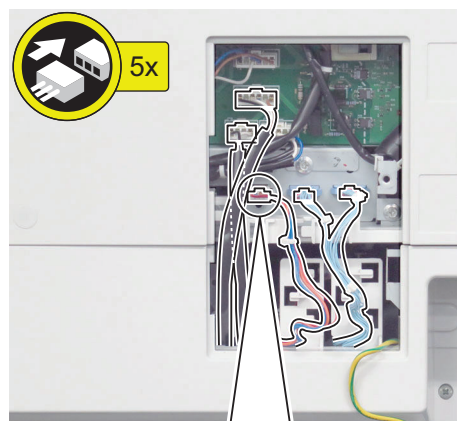


6. Install the Pedestal Rear Cover.

- 3 hook
- 3 Screws
- 2 Rubber Caps

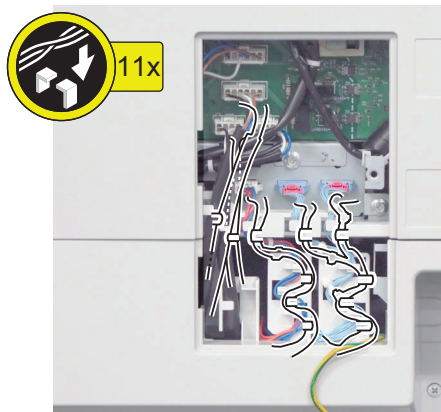


7. Connect the 5 Connector.



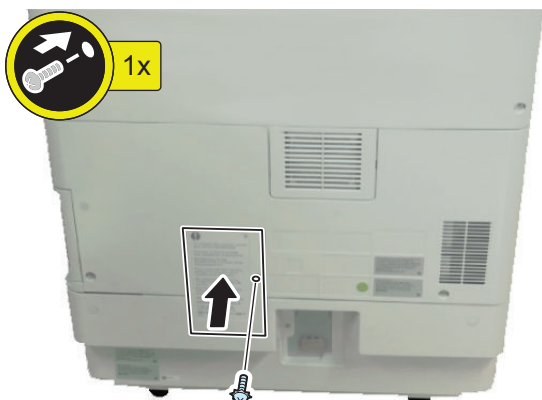
8. Route the 5 harnesses.

- 11 Harness Guides



9. Install the Connector Cover.

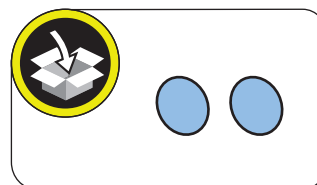
- 1 Screws



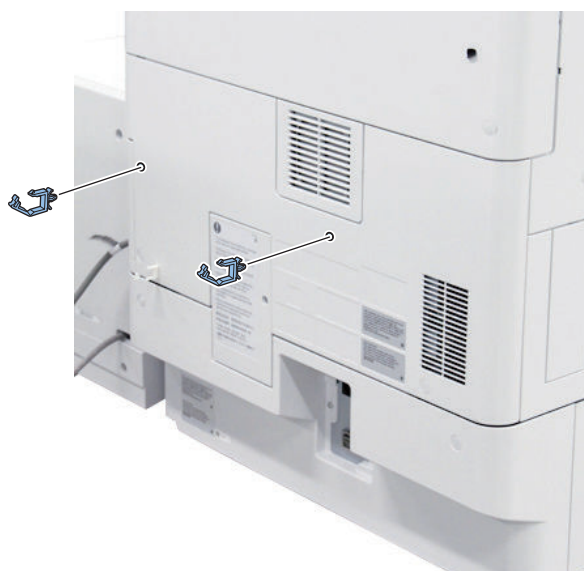
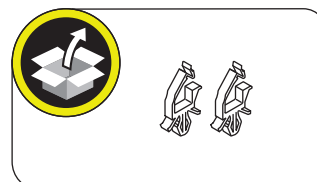
■ Connection with the Host Machine



1. Remove the Face seals.



2. Attach the Wire Saddles (white).



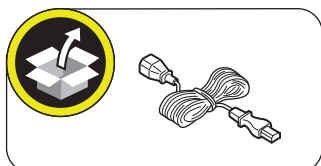


3. Connect the host machine and the Paper Deck Unit with the AC Cable and then fix it with the wire saddles.

- 2 Wire saddles

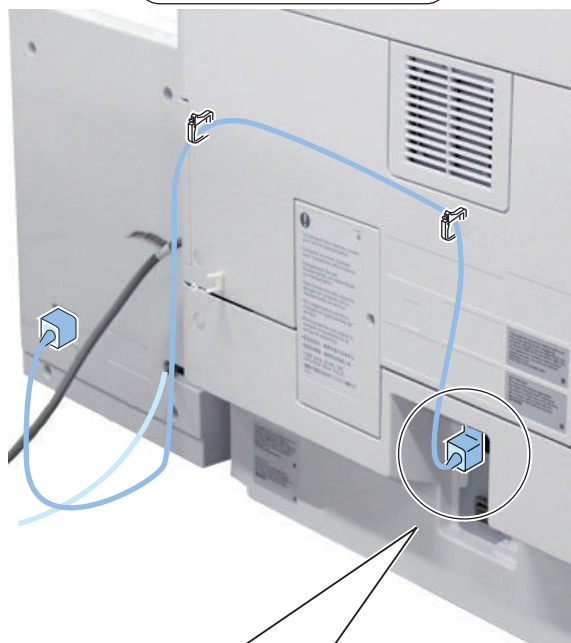
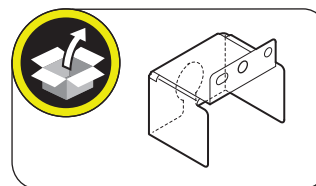
⚠ CAUTION:

Make sure that the Intermediate Power Cable is fully connected to the outlet. Also, make sure to install the Plug Cover. If the connection is not right, an accident causing the smoke or fire may occur.



4. Attach the bundled Plug Cover.

- 1 Screw (Binding; M4x4) (Use the screw removed at previous step.)



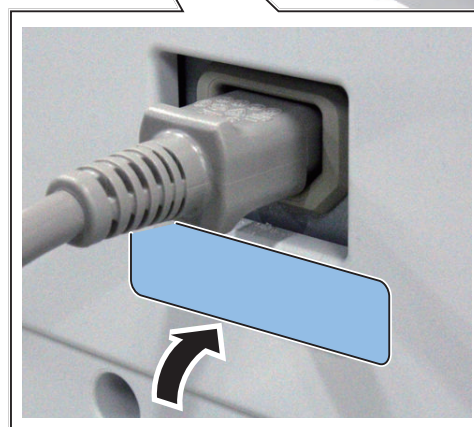
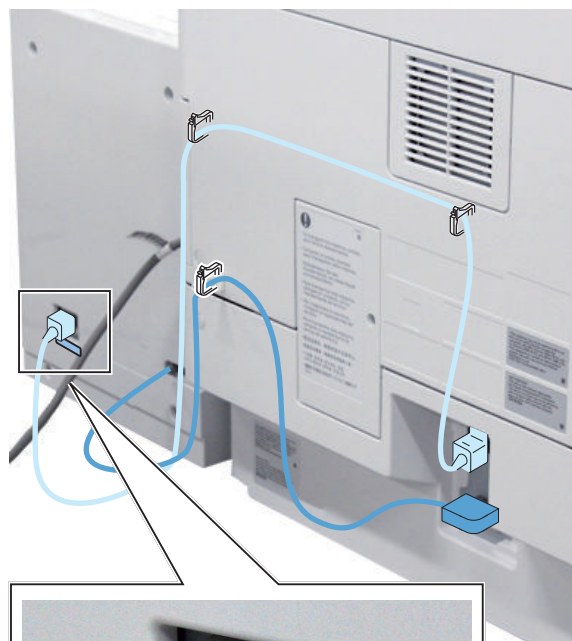
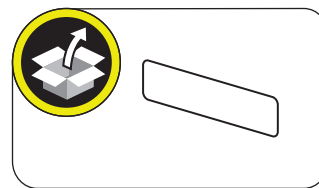


5. Connect the lattice connector of the Paper Deck to the host machine and then fix the cable with the wire saddle.

- 1 Connector
- 1 Wire saddle



6. Affix the Power Supply Label as shown in the figure.



7. Check that turn ON the environment switch.



8. Connect the power plug of the host machine to the power outlet.



9. Turn ON the main power switch.

Checking after Installation

■ Disposal Parts

1. Following disposal parts are remained after the installation procedure.

<input type="checkbox"/>	[1]	Screw (Binding; M4x4)	1pc
<input type="checkbox"/>	[2]	Cable Protection Bushing	1pc
<input type="checkbox"/>	[3]	AC Output Connector (short)	1pc
<input type="checkbox"/>	[4]	Power Supply Label	1pc
<input type="checkbox"/>	[5]	Wire Saddle (white)	1pc
<input type="checkbox"/>	[6]	Deck Heater Plug Cover	1pc
<input type="checkbox"/>	[7]	Face Cover	1pc
<input type="checkbox"/>	[8]	Face Seal	2pcs

Inner 2-Way Tray-J1

Points to Note at Installation

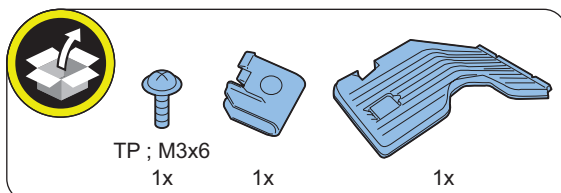
CAUTION:

Marked portion

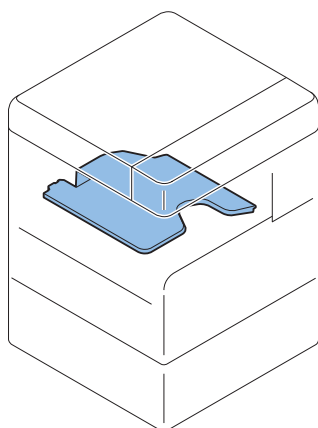
When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.



Checking the Contents



Installation Outline Drawing



Essential Items to Be Performed Before Installation

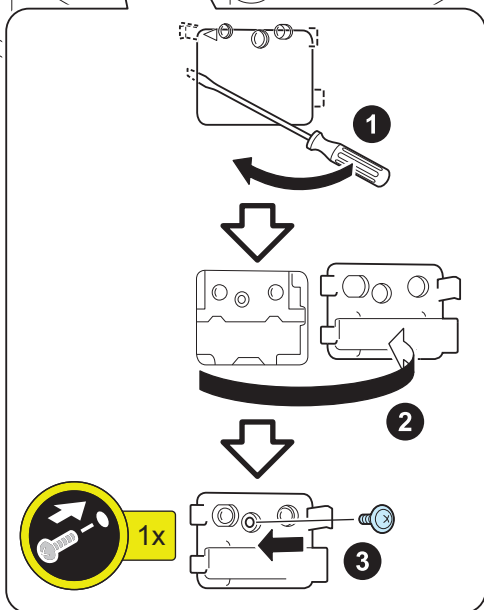
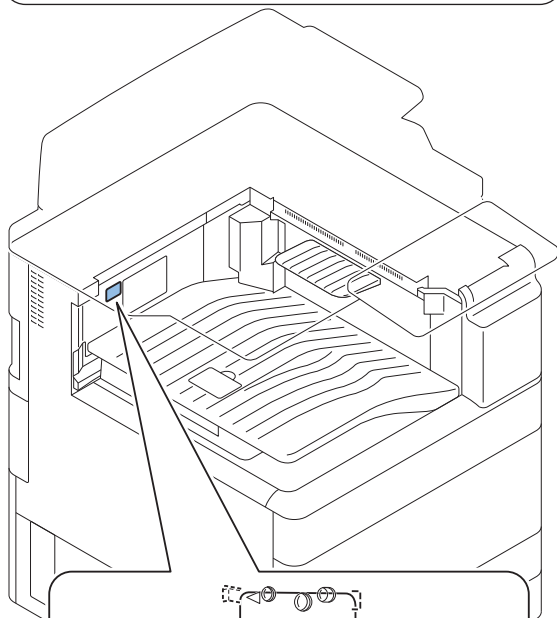
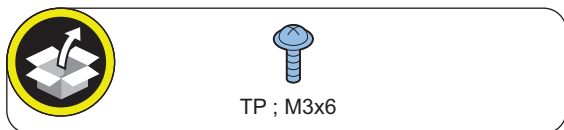
- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:

- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
 - If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.
- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Procedure

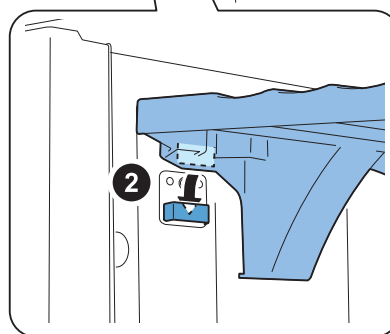
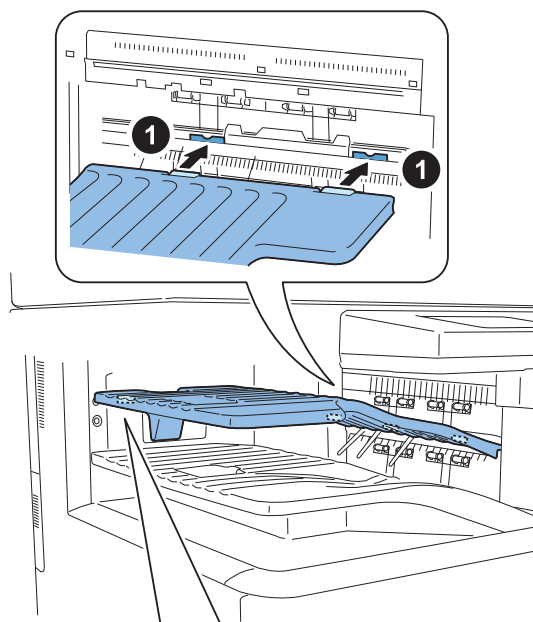
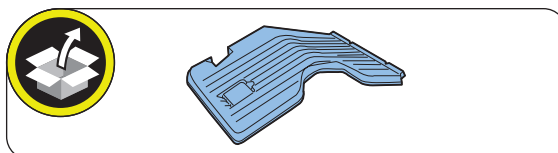
1.



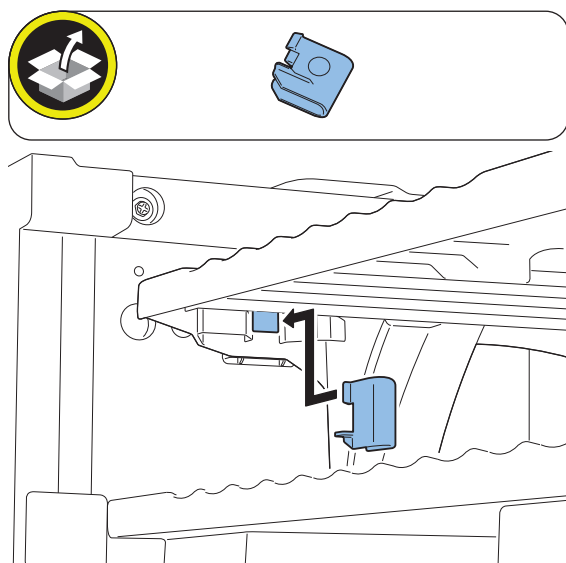
2.

NOTE:
When the Inner 2-way Tray is inserted into the Inner 2-way Tray Support Member, the boss is inserted into the Inner Rear Cover 1.

CAUTION:
Be sure to check that the Inner 2-way Tray is inserted into the Inner 2-way Tray Support Member.



3.



4. Connect the power plug of the host machine to the outlet.

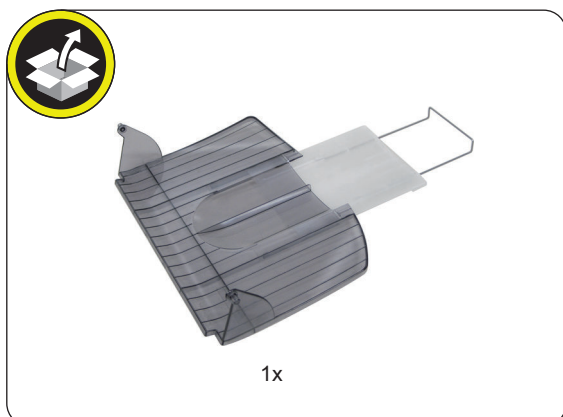
5. Turn ON the main power switch.

Settings after Installation

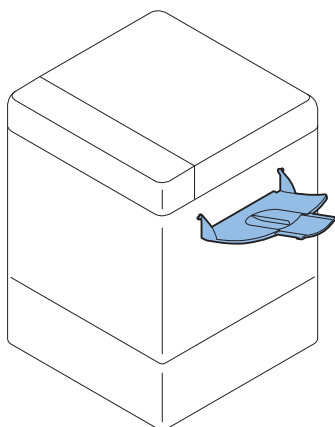
-
1. Set the value of the following service mode to "1".
COPIER > OPTION > ACC > IN-TRAY
 2. Turn OFF and then ON the main power.
 3. Check that the following menu has been added.
 - [Settings/Registration] > [Function Settings] > [Common] > [Paper Output Settings] > [Output Tray Settings]
 4. Press [Output Tray Settings].
 5. {Condition: language=en}According to the user's request, set the function of delivering paper to the Tray A/B/C and the priority order of the trays, and press [OK]. The priority order is displayed as "1", "2", and "3".
 6. Check that the behavior is in accordance with the settings.

Copy Tray-J2

Checking the Contents



Installation Outline Drawing



Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:

- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

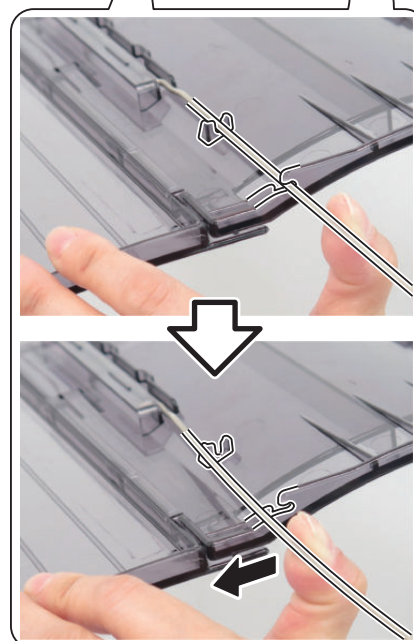
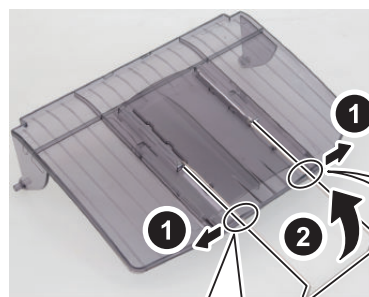
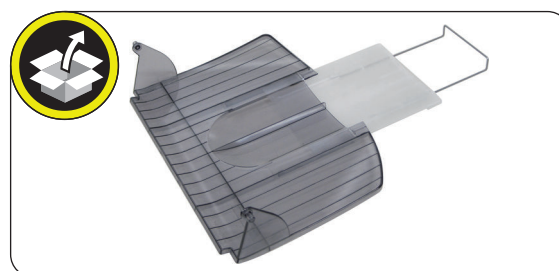
Preparation before Installation

CAUTION:

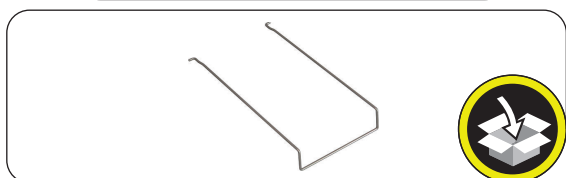
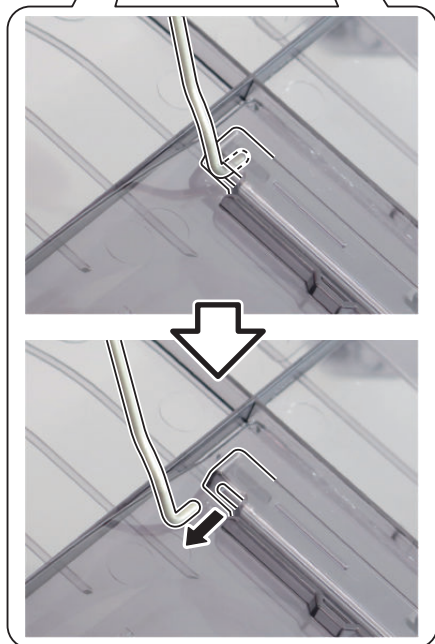
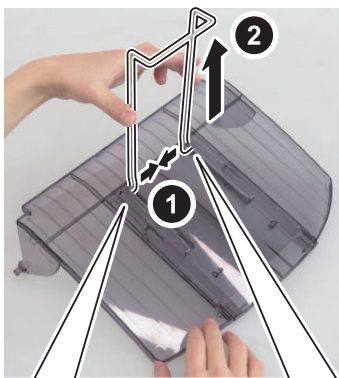
The Wire Tray attached to the Copy Tray is not necessary for this machine.

< How to remove the Wire Tray >

□ 1

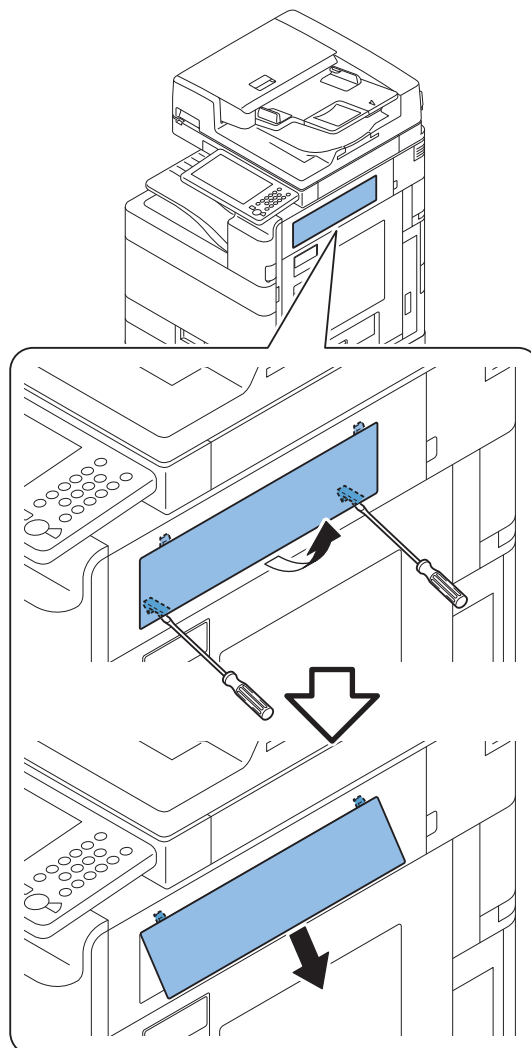


□ 2

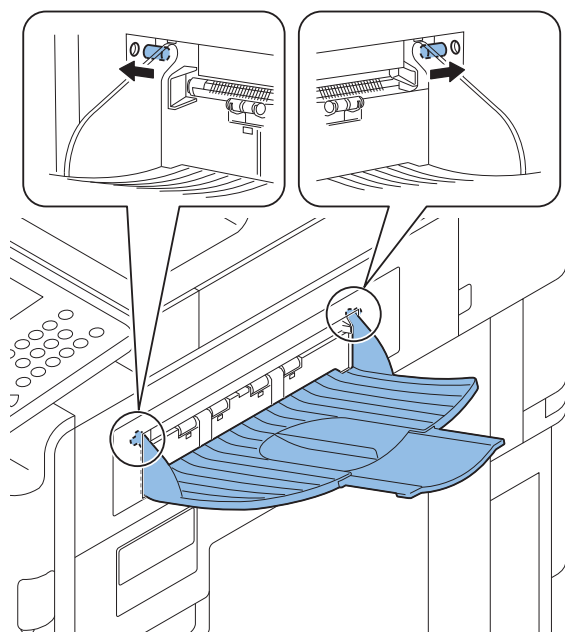


● Installation Procedure

□ 1.



□
2.



□
3. Connect the power plug of the host machine to the outlet.

□
4. Turn ON the main power switch.

● Settings after installation

-
1. Set the value of the following service mode to "1".
COPIER > OPTION > ACC > OUT-TRAY
 2. Turn OFF and then ON the main power.
 3. Check that the following menu has been added.
 - [Settings/Registration] > [Function Settings] > [Common] > [Paper Output Settings] > [Output Tray Settings]
 4. Press [Output Tray Settings].
 5. According to the user's request, set the function of delivering paper to the Tray A/B/C and the priority order of the trays, and press [OK]. The priority order is displayed as "1", "2", and "3".
 6. Check that the behavior is in accordance with the settings.

Utility Tray-B1

Points to Note when Installing


Refer to "Table of Options Combination" when installing this equipment before operation.

Table of Options Combination


	Voice Operation	Voice Guidance Kit	Copy Card Reader
Utility Tray	No	No	Yes

Yes: Available No: Unavailable

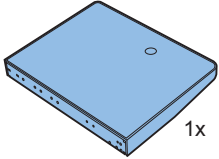
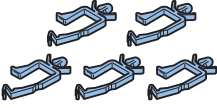
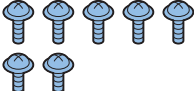
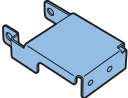
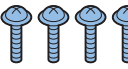



CAUTION:
 Marked portion
 When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.



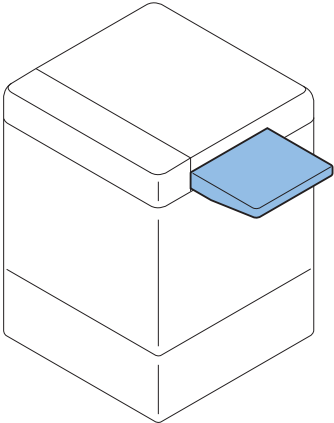
Checking the Contents



The parts using to install the keyboard

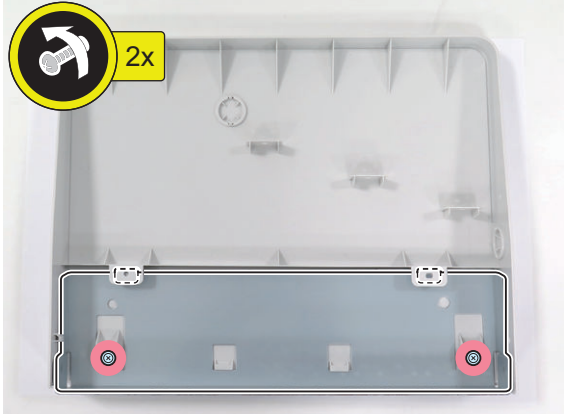
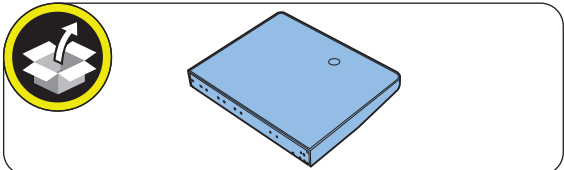
 1x
 5x
 M4x8 Black 7x
 1x
 M4x14 4x
 M4x10 2x
 M4x8 Black 3x


Installation Outline Drawing



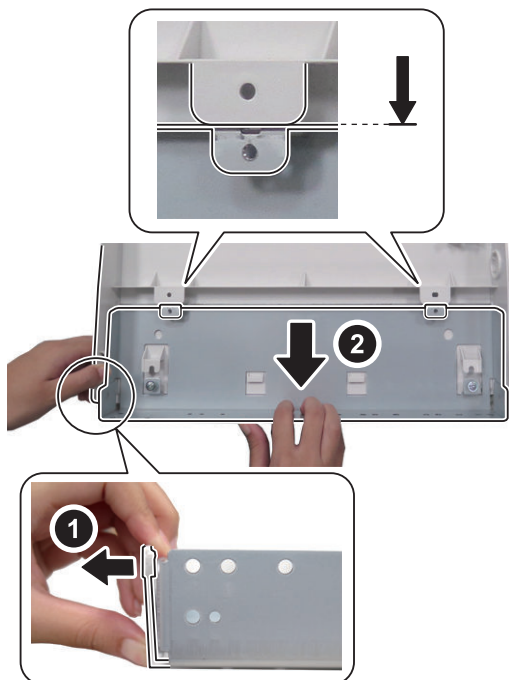
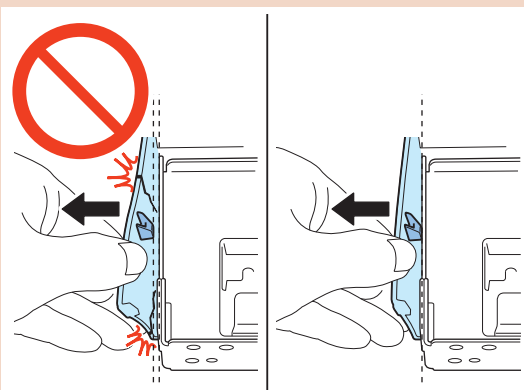
Installation Procedure

-
- 1.** Remove the packing tapes from this equipment.
-
- 2.**



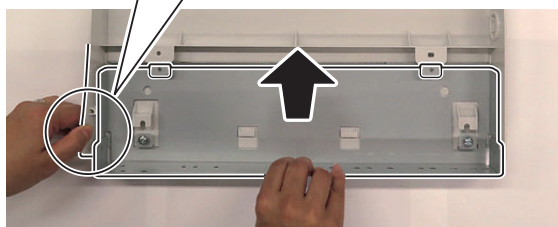
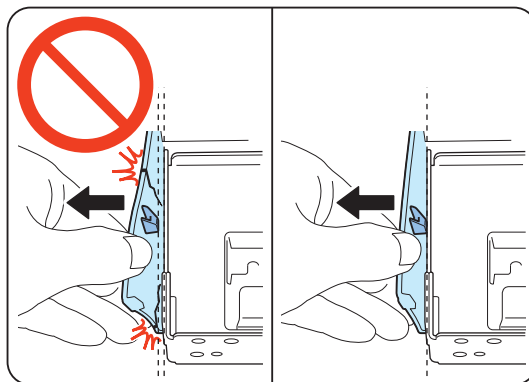
□
3.

CAUTION:
To avoid damage, do not pull the Utility Tray too much.

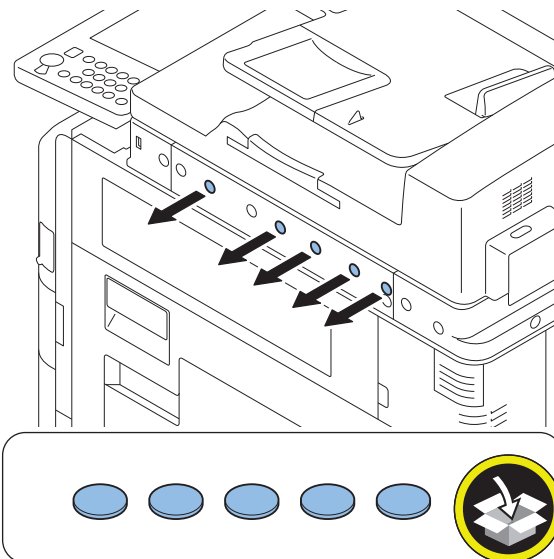


□
4.

CAUTION:
To avoid damage, do not pull the Utility Tray too much.



□
5.

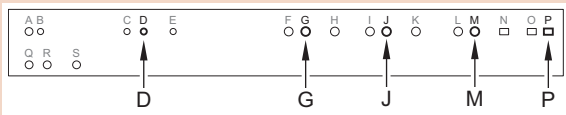


6.

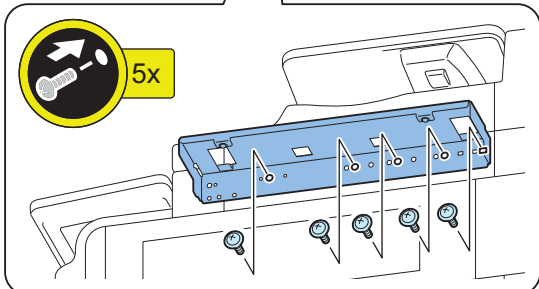
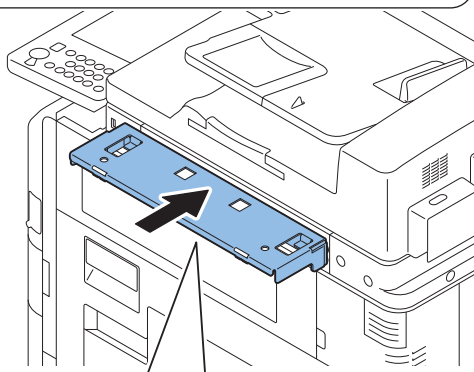
CAUTION:

Points to Note at Installation

Be sure to install it by using the holes with the marks D, G, J, M and P.



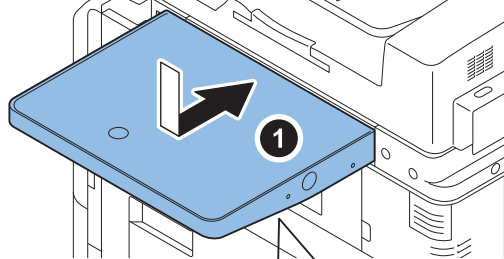
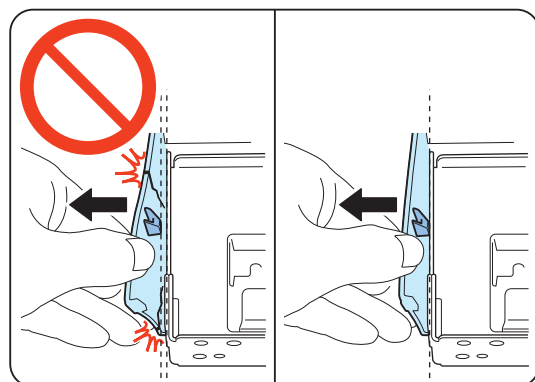
M4x8 Black



7.

CAUTION:

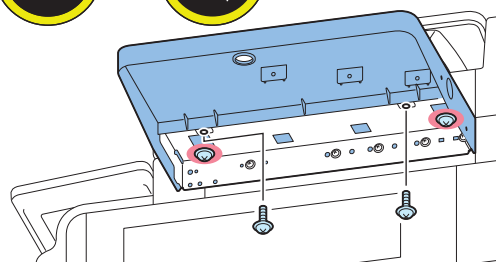
To avoid damage, do not pull the Utility Tray too much.



8.

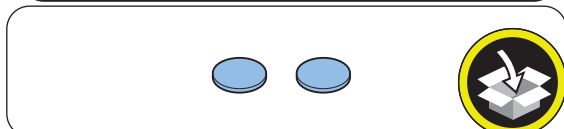
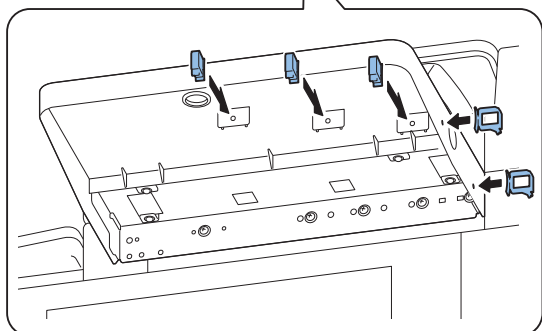
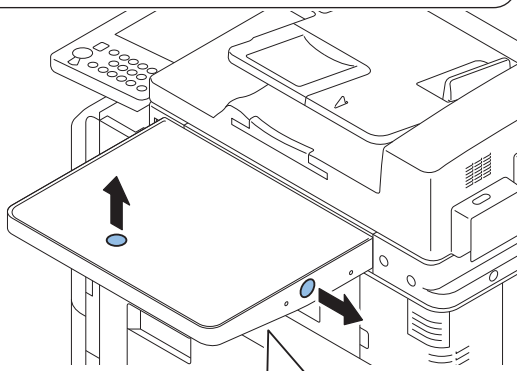
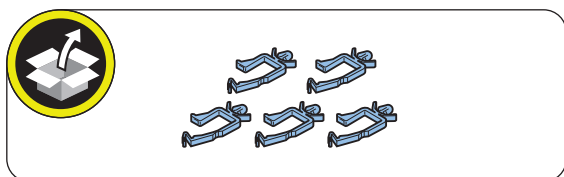


M4x8 Black



● When Installing the USB Keyboard

□
1.



Copy Card Reader-F1

Points to Note when Installing

- To install this equipment, the Copy Card Reader Attachment-B5 is required.
- After installing the Copy Card Reader, input the card number to be used in service mode on this equipment: [COPIER] > [FUNCTION] > [INSTALL] > [CARD]; otherwise the card cannot be recognized even though it is inserted.
- Refer to "Table of Options Combination" when installing this equipment before operation.

Table of Options Combination

	Utility Tray	Voice Operation	Voice Guidance Kit	Copy Control I / F Kit	Serial I/F Kit
Copy Card Reader	Yes	Yes	Yes	No	No

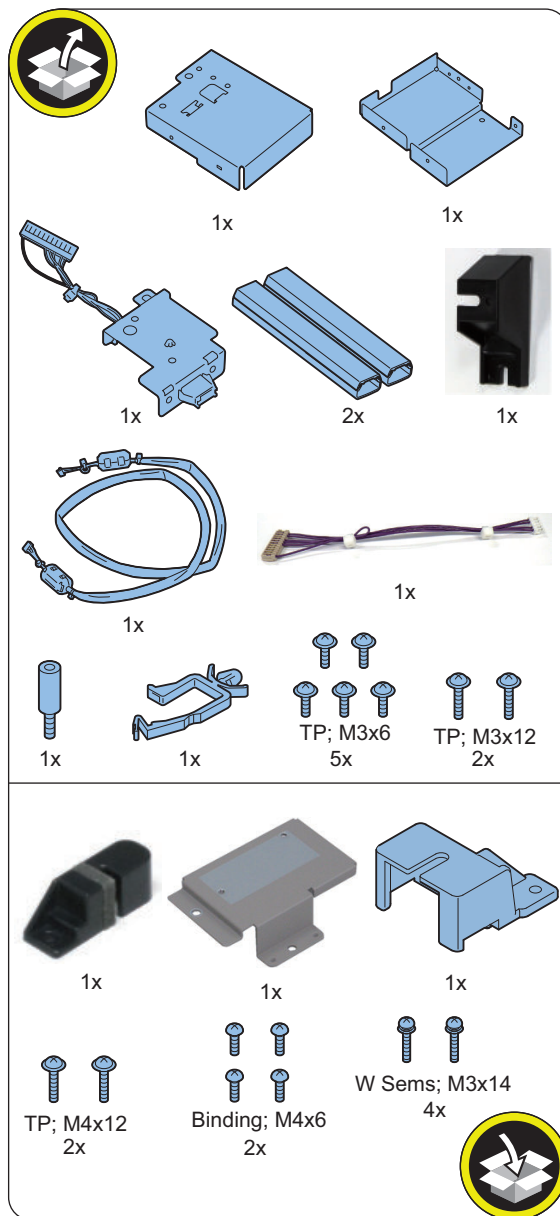
Yes: Available No: Unavailable

CAUTION:

Marked portion
When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.

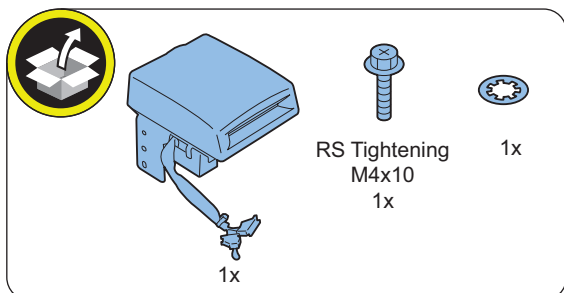


<Copy Card Reader Attachment-B5>

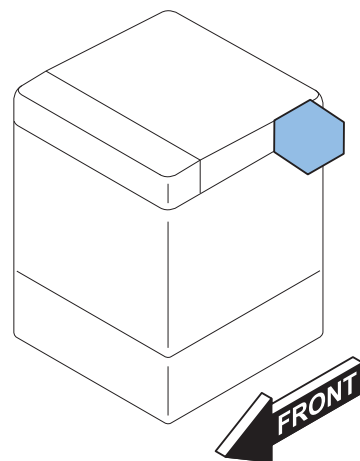


Checking the Contents

<Copy Card Reader-F1>



Installation Outline Drawing



Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

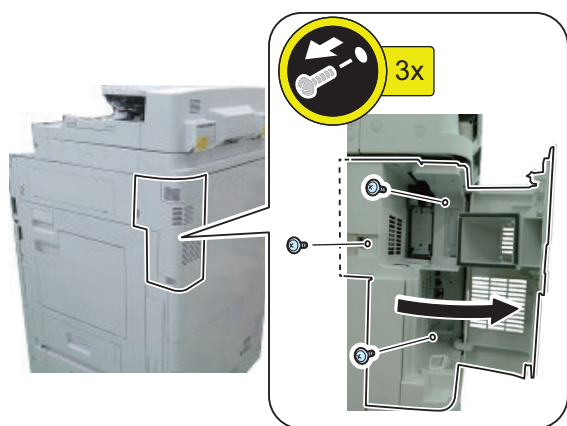
⚠ WARNING:

- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

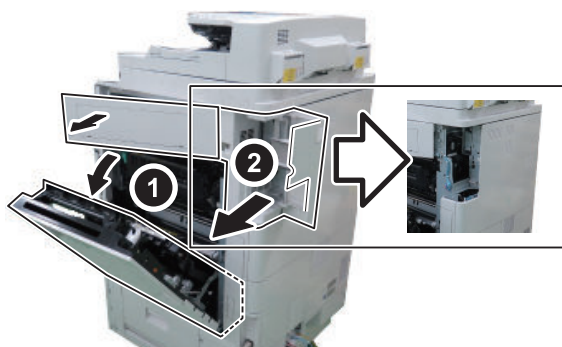
- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Procedure

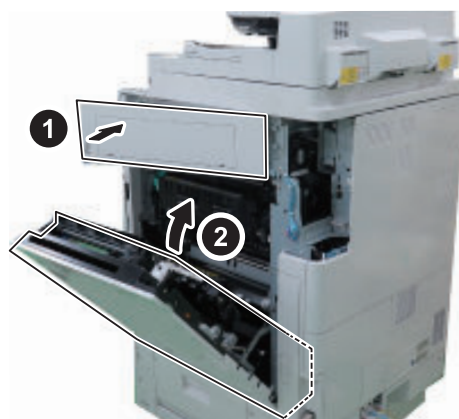
□
1.



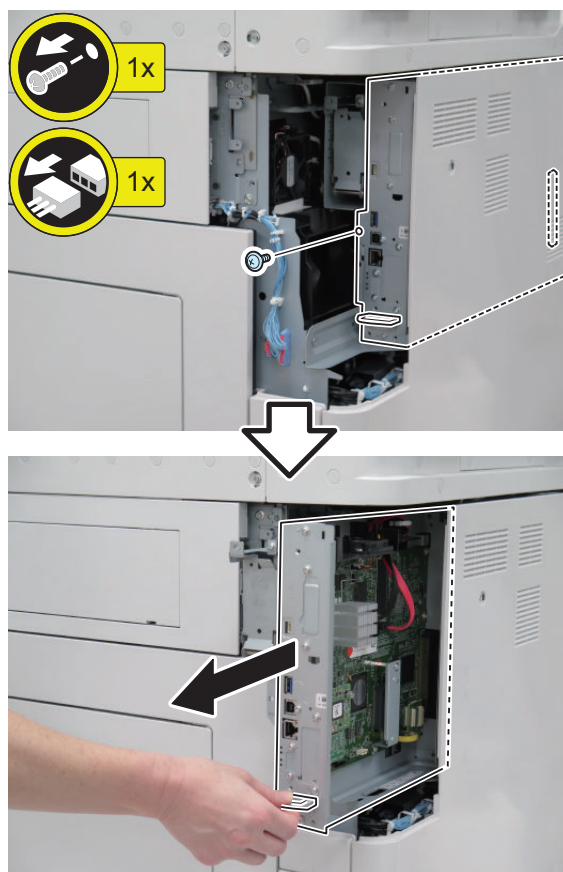
□
2.



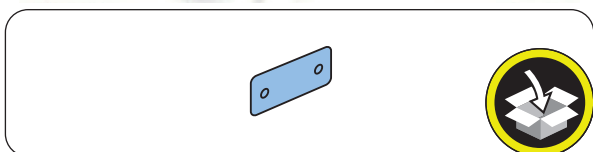
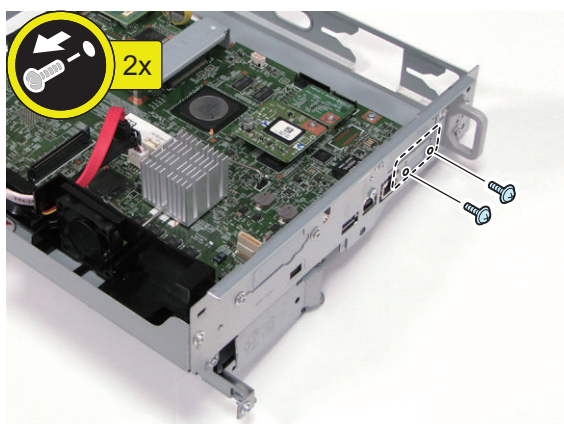
□
3.



□
4.

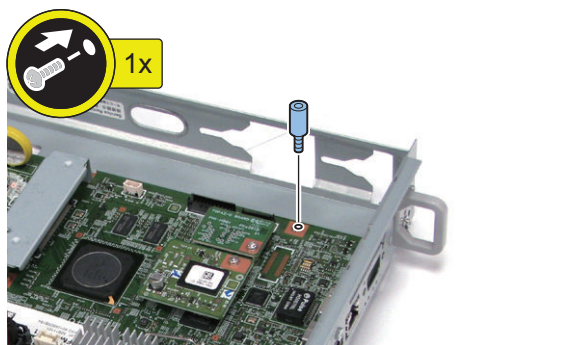
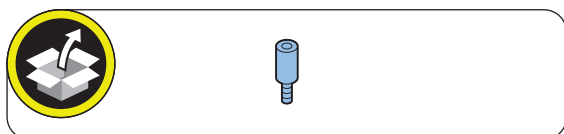
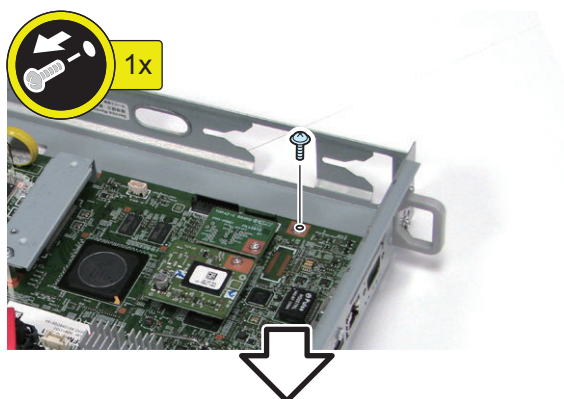


□
5.



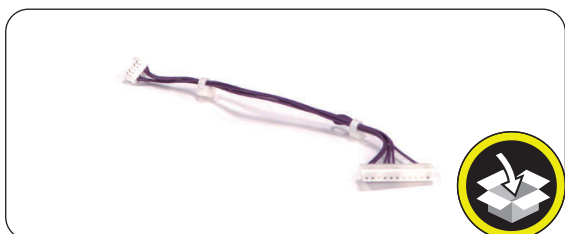
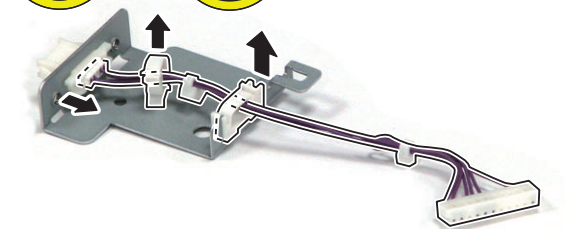
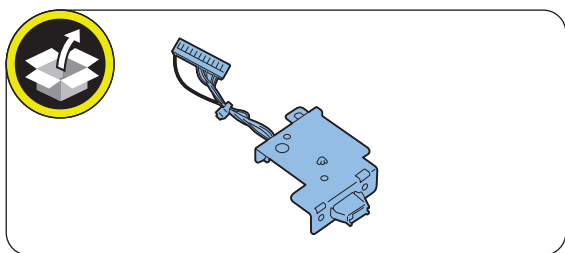
NOTE:
The removed screws will be used in step 9.

□
6.

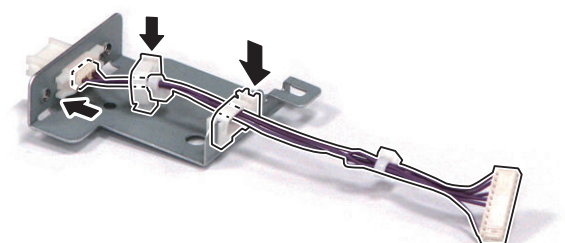


NOTE:
The removed screws will be used in step 9.

□
7.

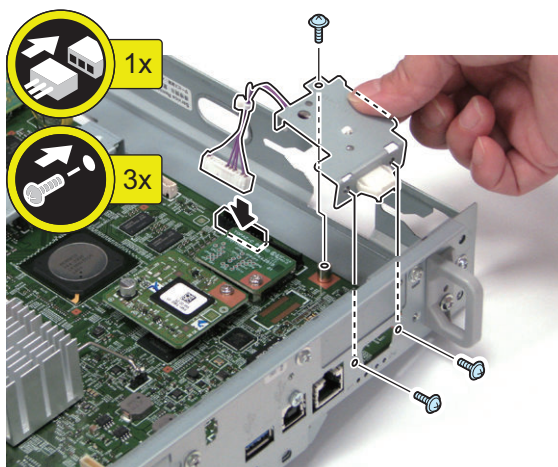


□
8.



□
9.

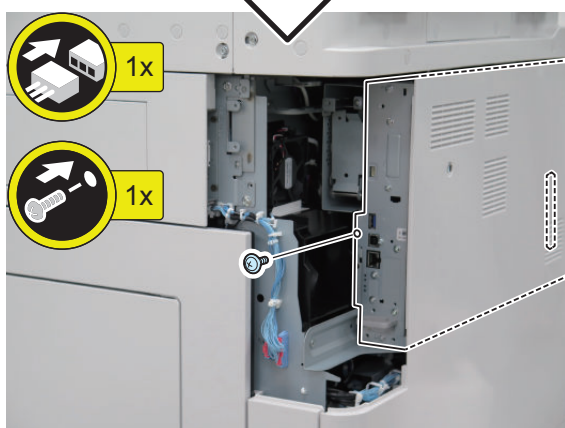
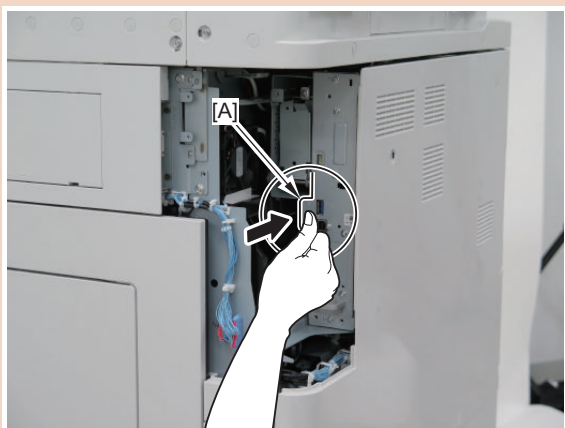
NOTE:
Use the screws removed in steps 5 and 6.



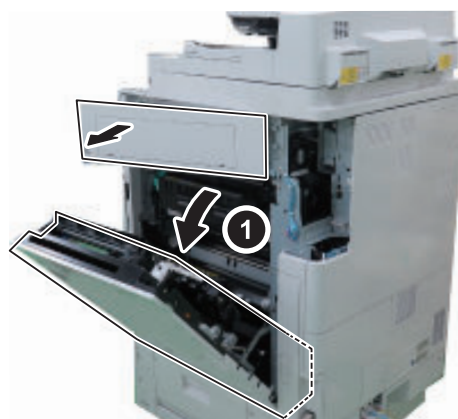
10.

CAUTION:

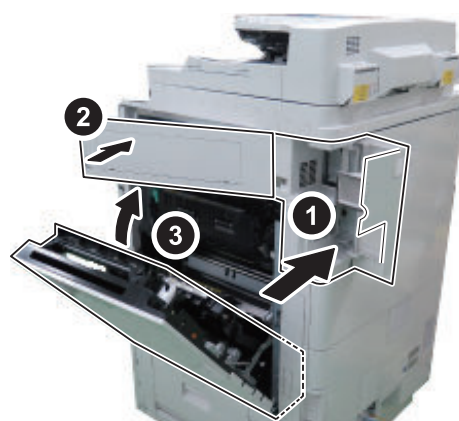
- Be sure to insert the Main Controller PCB 1 until it stops.
- Be sure to push [A] part hard to install it, otherwise the connector may not be connected properly.



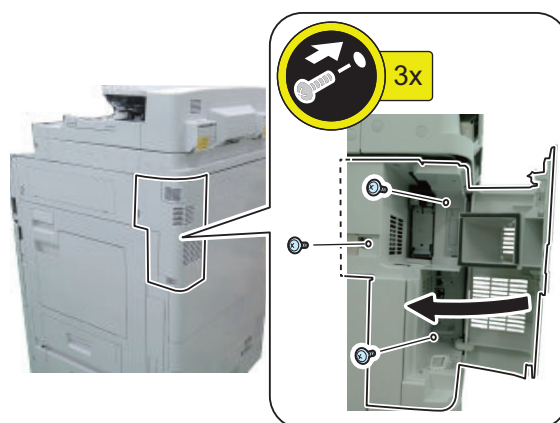
11.



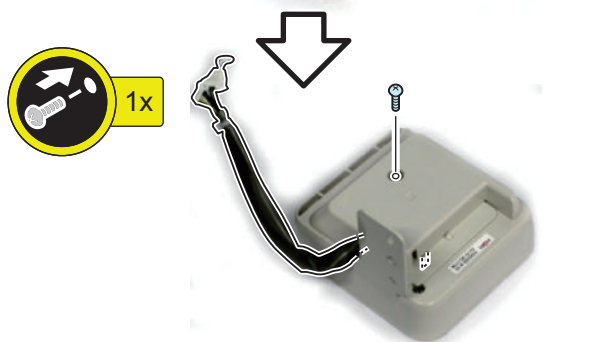
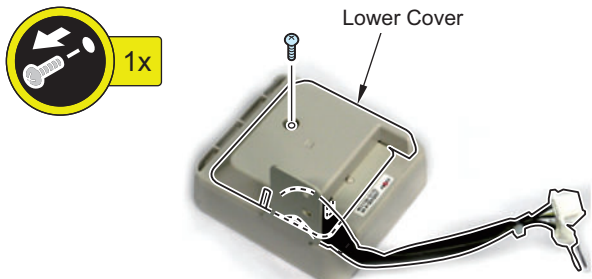
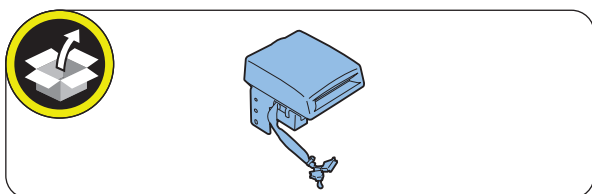
12.



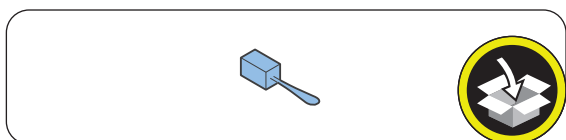
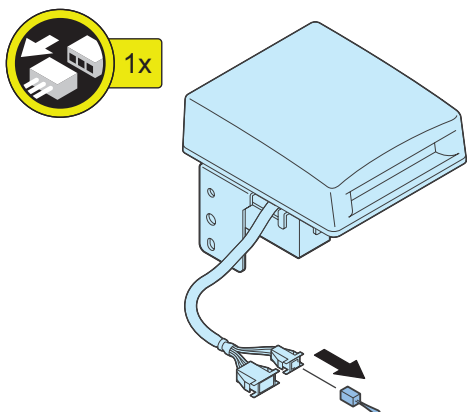
13.



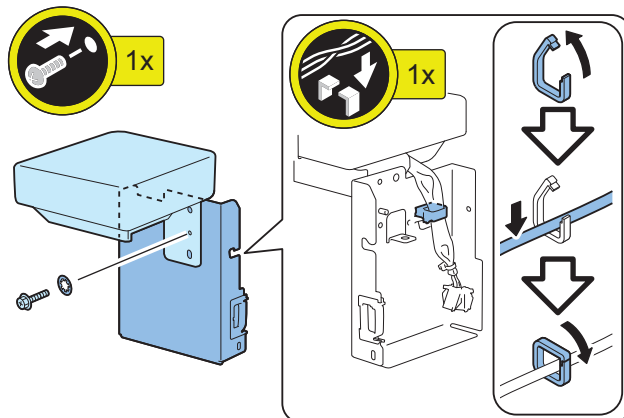
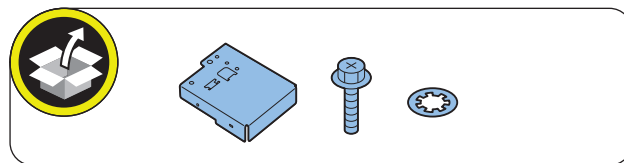
14.



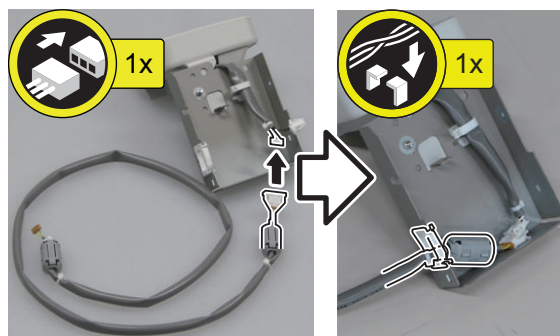
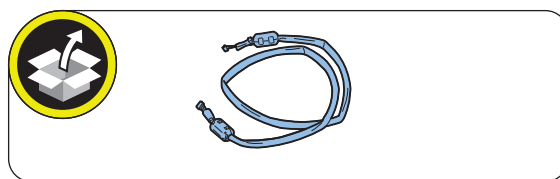
15.



16.



17.



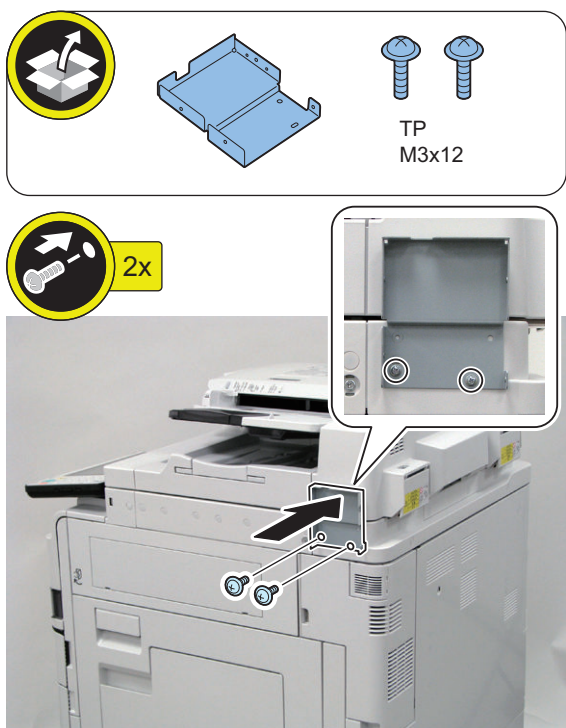
18.



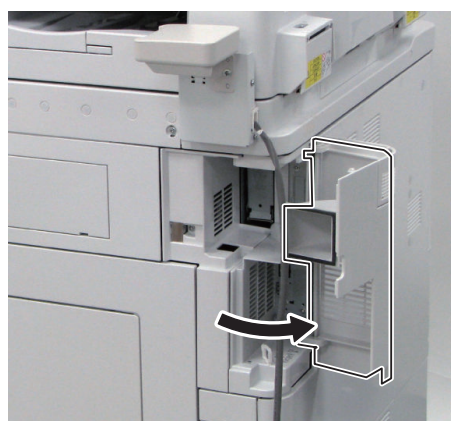
20.



19.



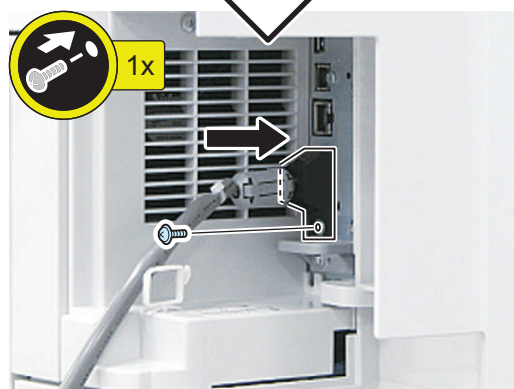
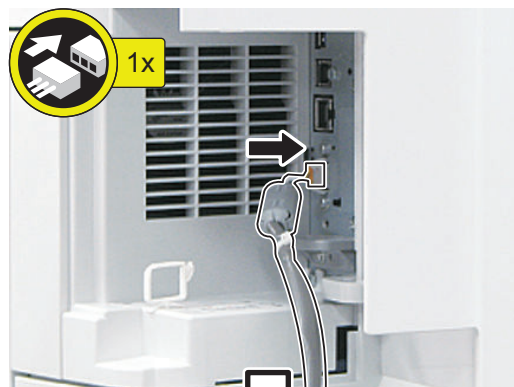
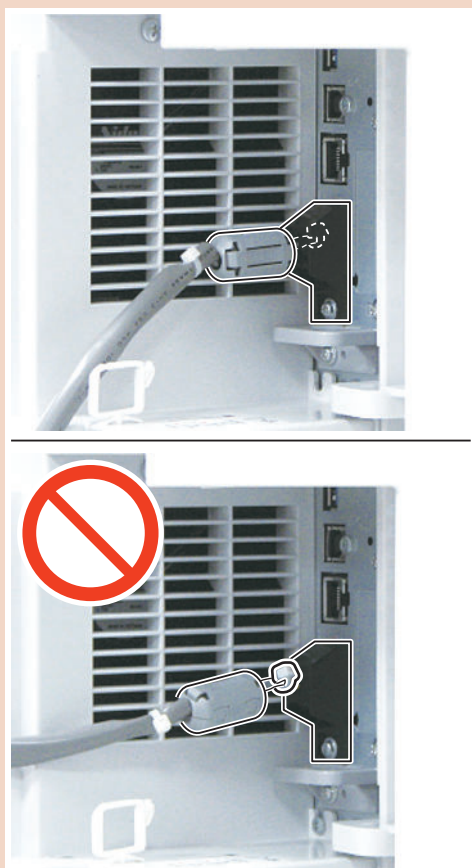
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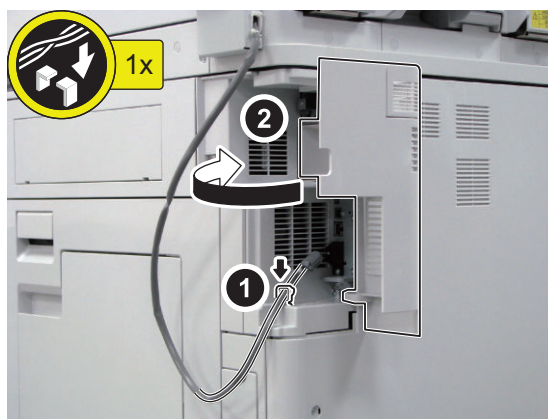
□
22.

CAUTION:

To ensure that the connector does not become disconnected, be sure to place the cable band of the Card Reader External Relay Harness on the inside of the Connector Cover.



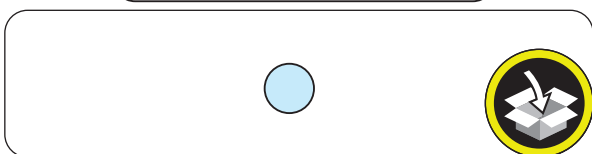
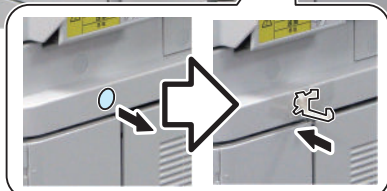
□
23.



□
24.

NOTE:

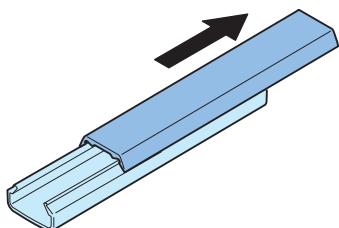
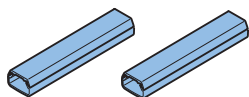
When installing the Voice Operation Kit simultaneously, use the Wire Saddle included with the Voice Operation Kit.



□
25.

NOTE:

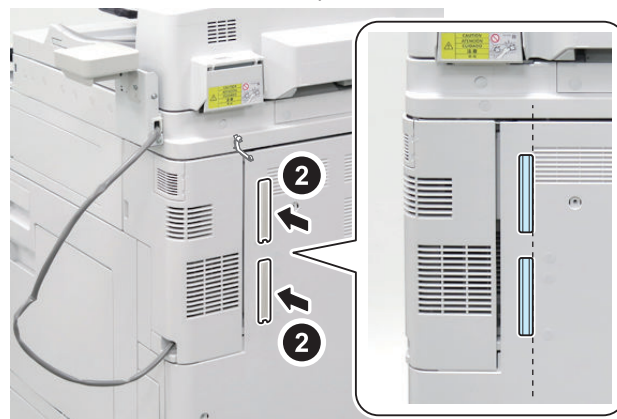
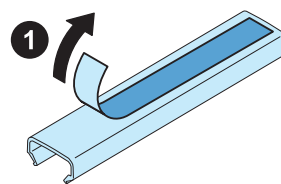
For the Duct Model for EUR, use only one.



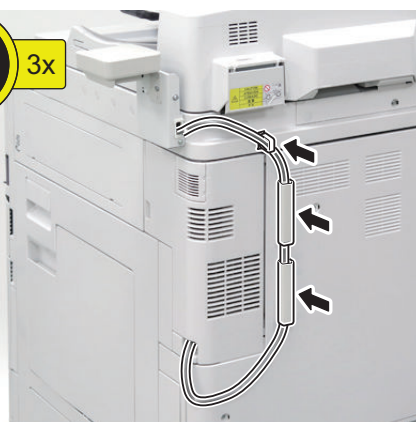
NOTE:

For the Duct Model (EUR only): to Step 28

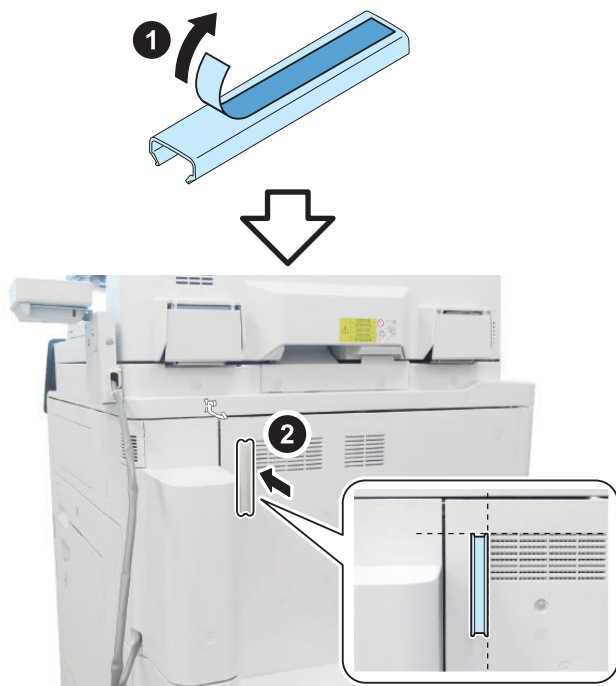
□
26.



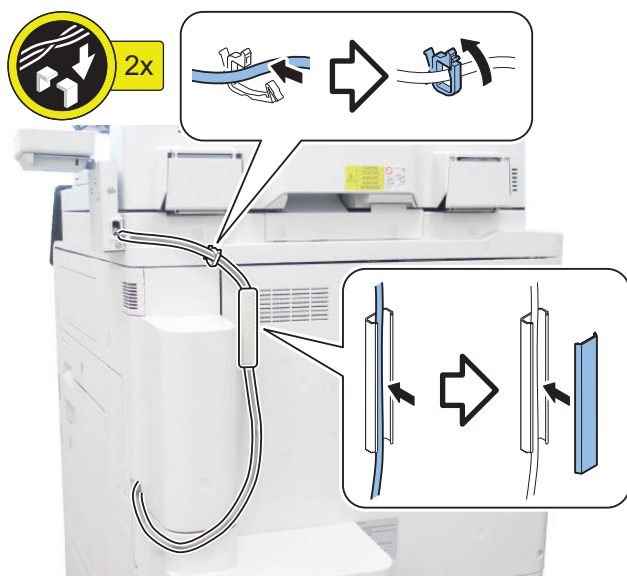
□
27.



28. < For the Duct Model (EUR only) >



29. < For the Duct Model (EUR only) >



3. Check the model of the Card Reader in service mode.
(Default: 0 "Card Reader-F1")
COPIER > OPTION > ACC > CR-TYPE
-
4. Set the number of card (number of department ID) that can be used with the Card Reader in service mode.(Lv.2).
COPIER > OPTION > FNC-SW > CARD-RNG
-
5. Use Service Mode to enter the minimum card number to be used by a user (1 to 2001).
COPIER > FUNCTION > INSTALL > CARD
Starting from the entered card number, the number of cards set in step 4 can be used.
-
6. Turn OFF and then ON the main power switch to enable the setting values.
7. Insert a card with a card number that has been registered, and check that the machine operates normally.

NOTE:

Perform the following operations to change the number of cards (departments) after it has been set. In such a case, counter information for each department is reset.

COPIER > FUNCTION > CLEAR > CARD

- Turn OFF and then ON the main power switch to enable the settings.
- After that, perform from step 3.

Checking after Installation

1. Connect the power plug of the host machine to the power outlet.
2. Turn the main power switch ON.

Serial Interface Kit-K3, Copy Control Interface Kit-A1

Points to Note at Installation

Refer to "Table of Options Combination" when installing this equipment before operation.

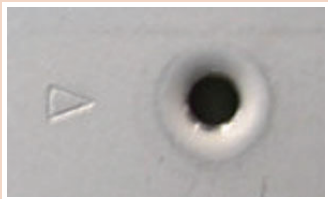
Table of Options Combination

	Voice Operation	Voice Guidance Kit	Copy Card Reader	Serial I/F Kit	Copy Control I/F Kit
Serial I/F Kit	Yes	Yes	No	-	No
Copy Control I/F Kit	Yes	Yes	No	No	-

Yes: Available No: Unavailable

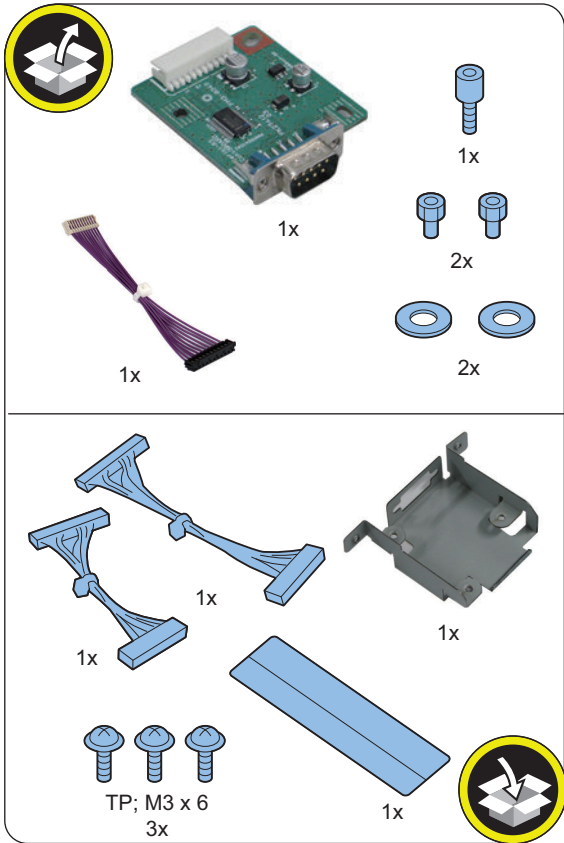
CAUTION:

Marked portion
When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.

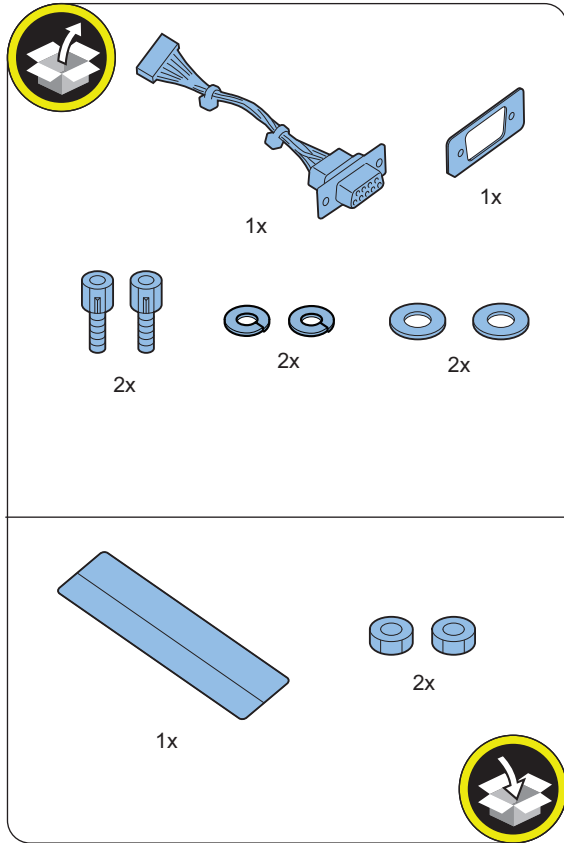


Checking the Contents

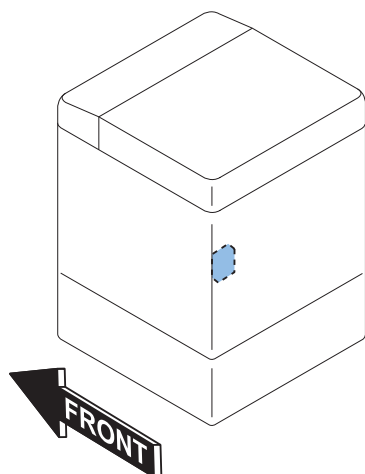
<Serial Interface Kit-K3>



<Copy Control Interface Kit-A1>



Installation Outline Drawing



Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:

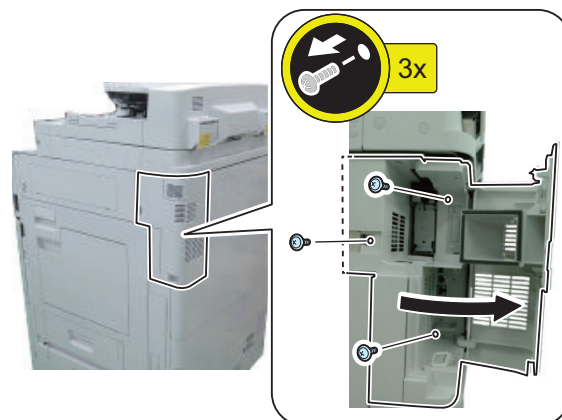
- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

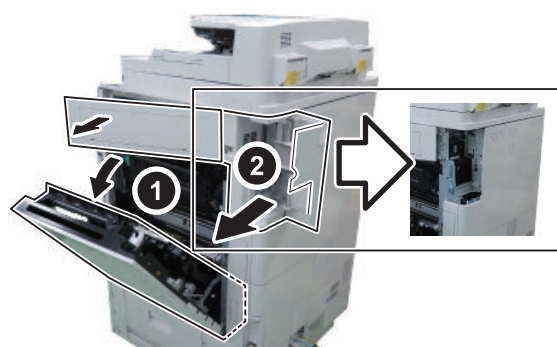
Installation Procedure

■ Preparation

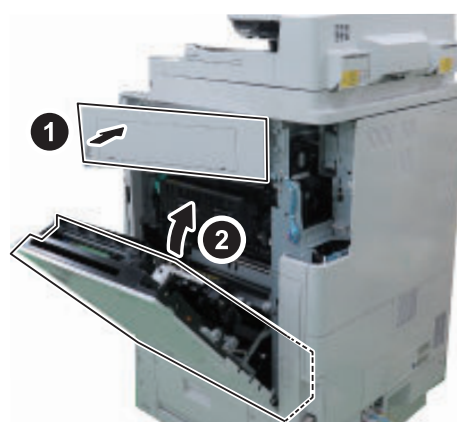
□
1.



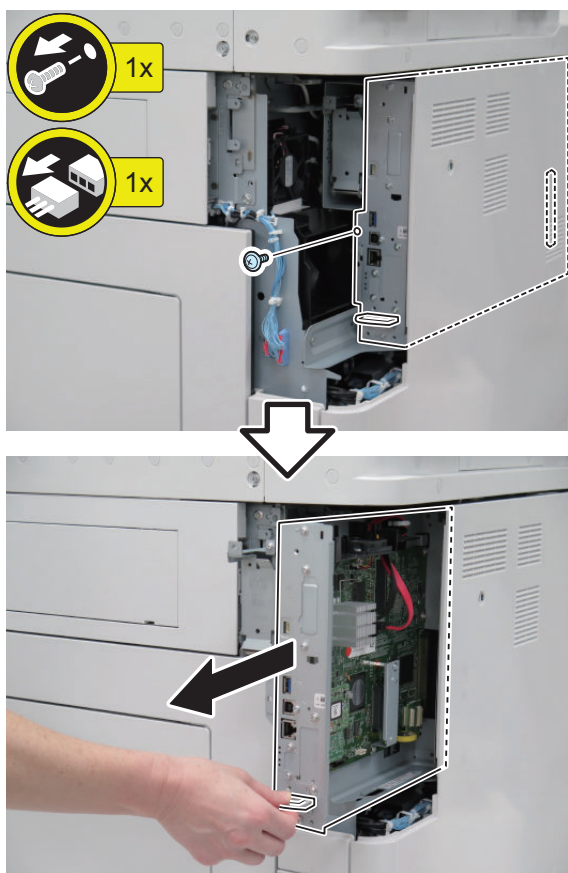
□
2.



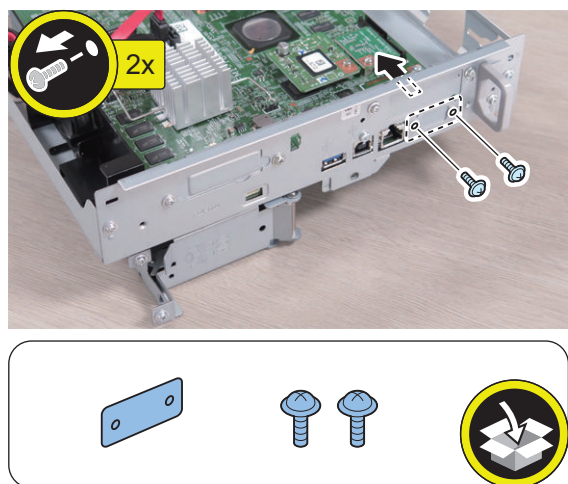
□
3.



4.

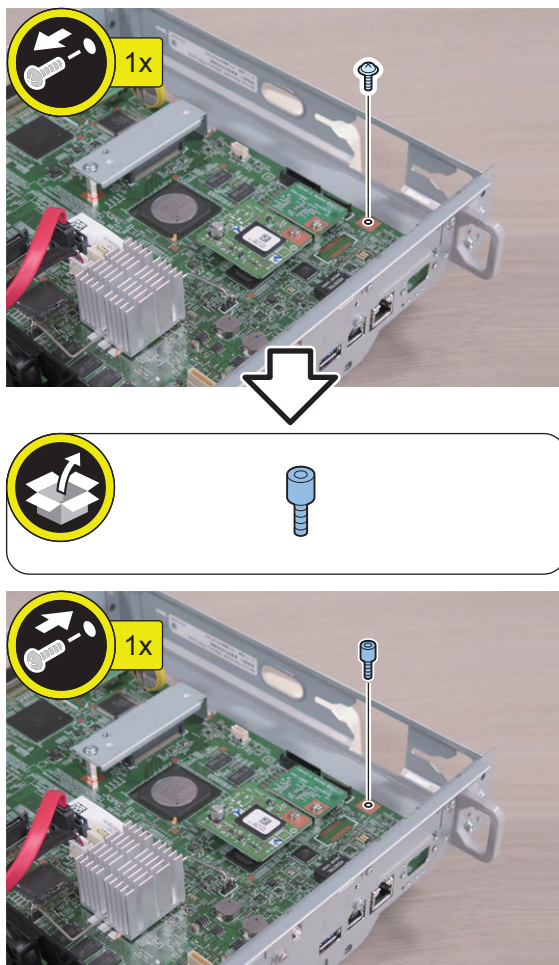


5.



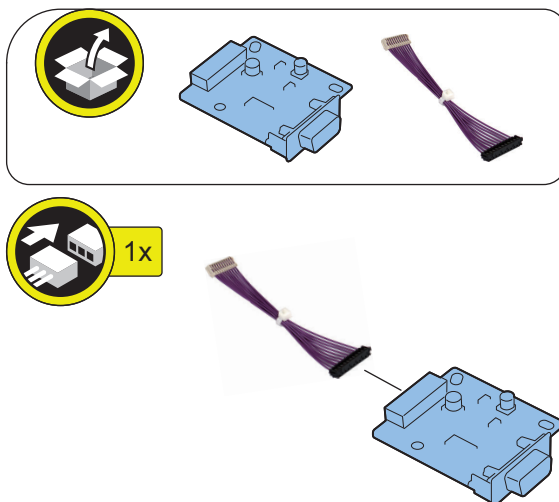
■ Installing the Serial Interface Kit

1.



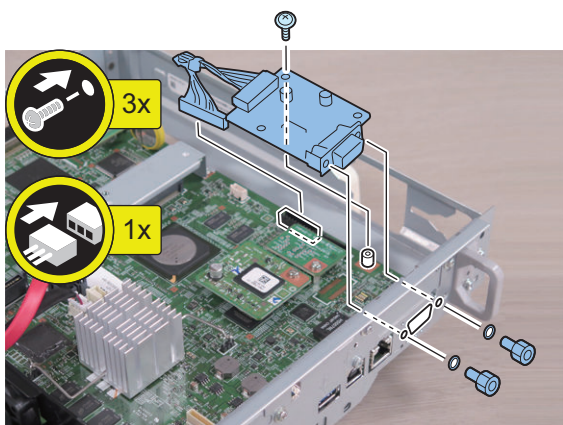
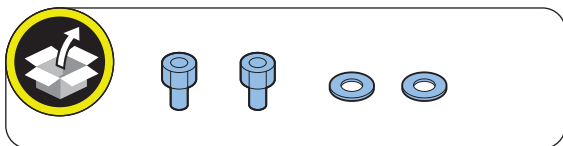
NOTE:
The removed screw will be used in step 3.

2.



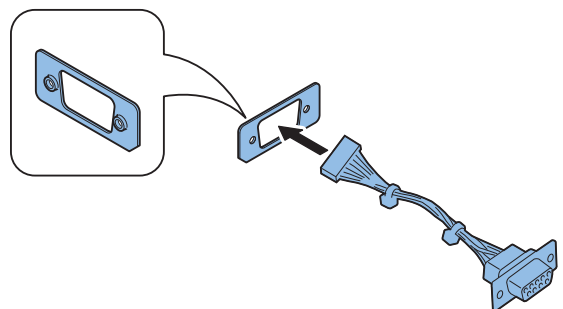
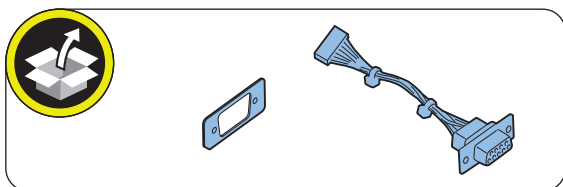
□
3.

NOTE:
Use the screw removed in step 1.

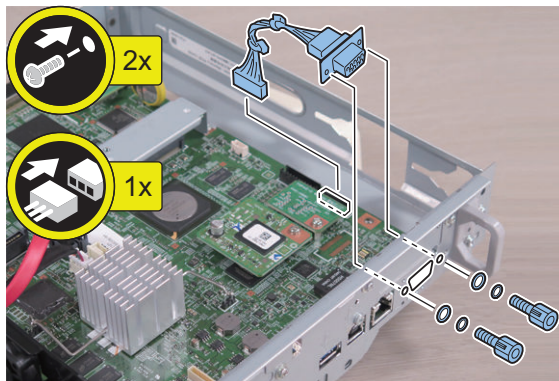
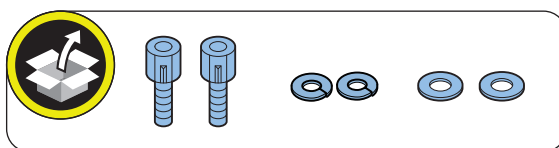


■ Installing the Copy Control interface Kit

□
1.



□
2.

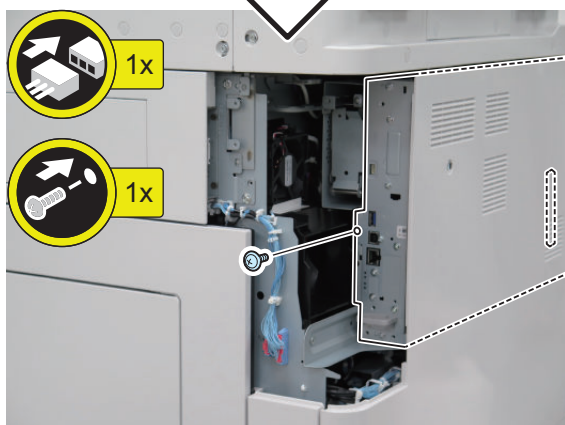
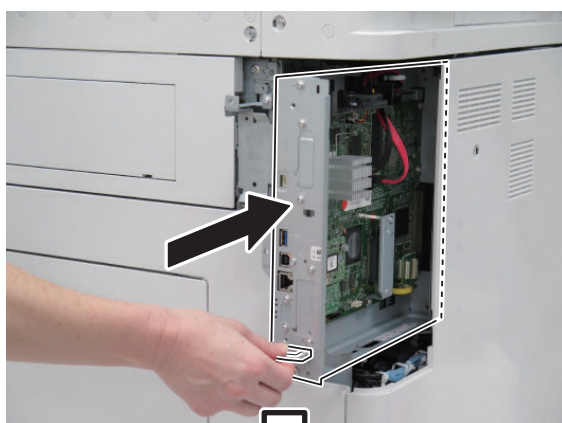
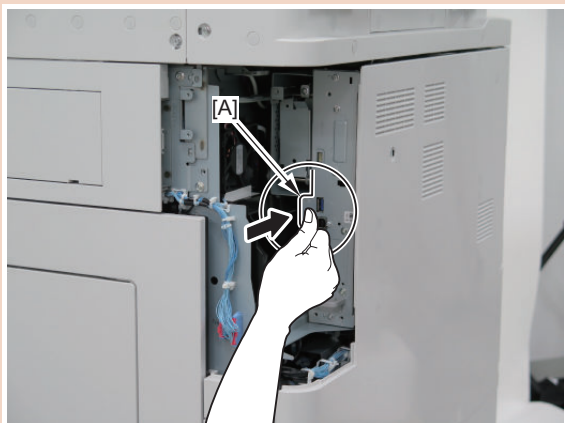


■ Subsequent Work

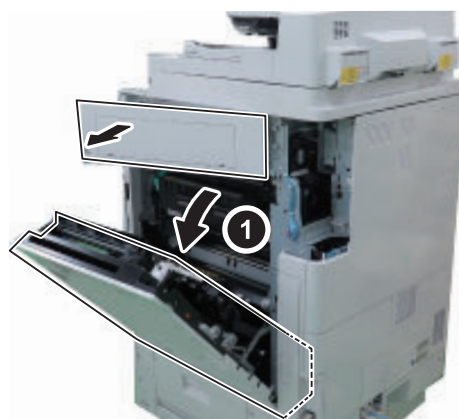
□
1.

CAUTION:

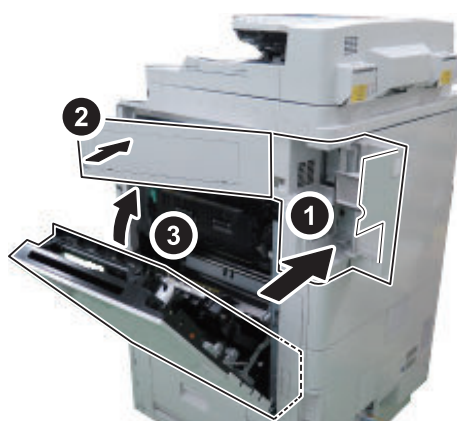
- Be sure to insert the Main Controller PCB 1 until it stops.
- Be sure to push [A] part hard to install it, otherwise the connector may not be connected properly.



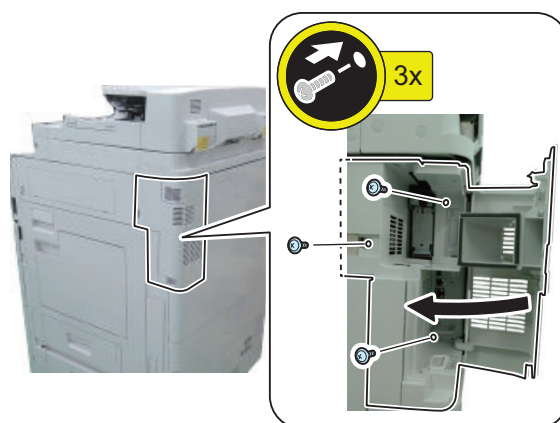
□
2.



□
3.



□
4.



□
5.

Connect the power plug of the host machine to the power outlet.

□
6.

Turn the main power switch ON.

Document Scan Lock Kit-B2

Points to Note at Installation

- To enable the function of "Image Data Analyzer Board", it is necessary to install the license which comes with the product.
- Be sure to ask users to install the license after the installation.

CAUTION:

An error occurs when the license is installed before installing the Image Analysis Board, so make sure to install the license after installing the Image Analysis Board.

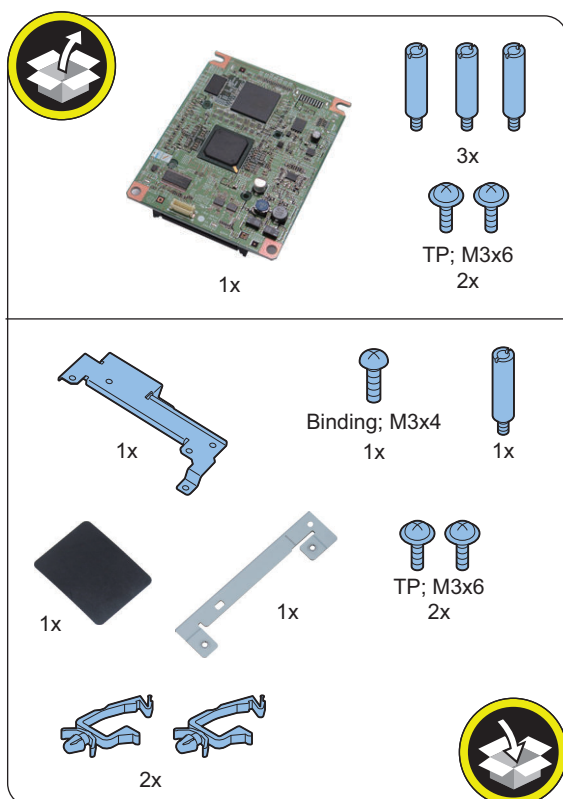
CAUTION:

Marked portion

When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.



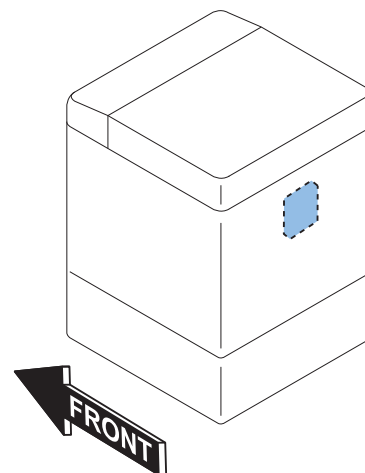
Checking the Contents



<Others>

- Including guides

Installation Outline Drawing



Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

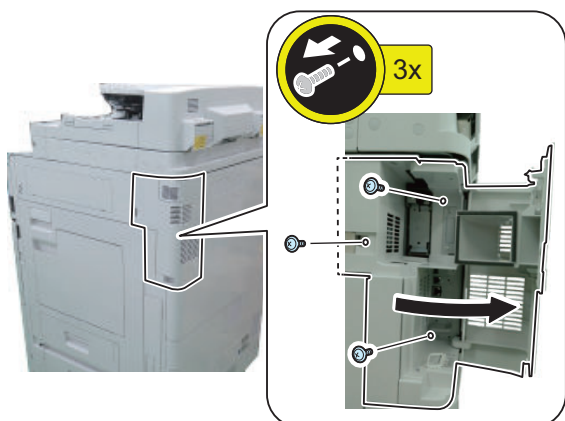
WARNING:

- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

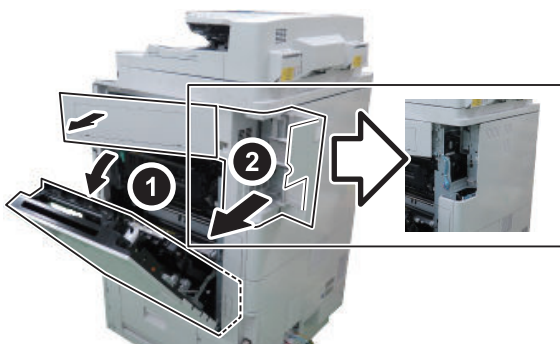
- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Procedure

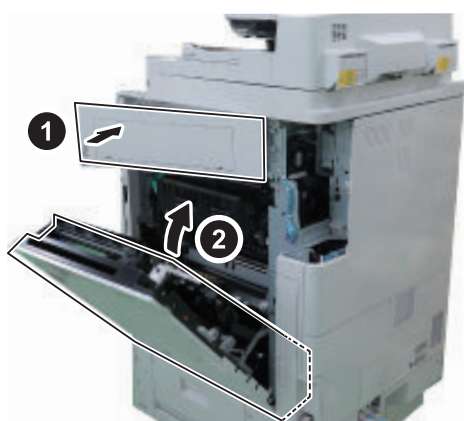
□ 1



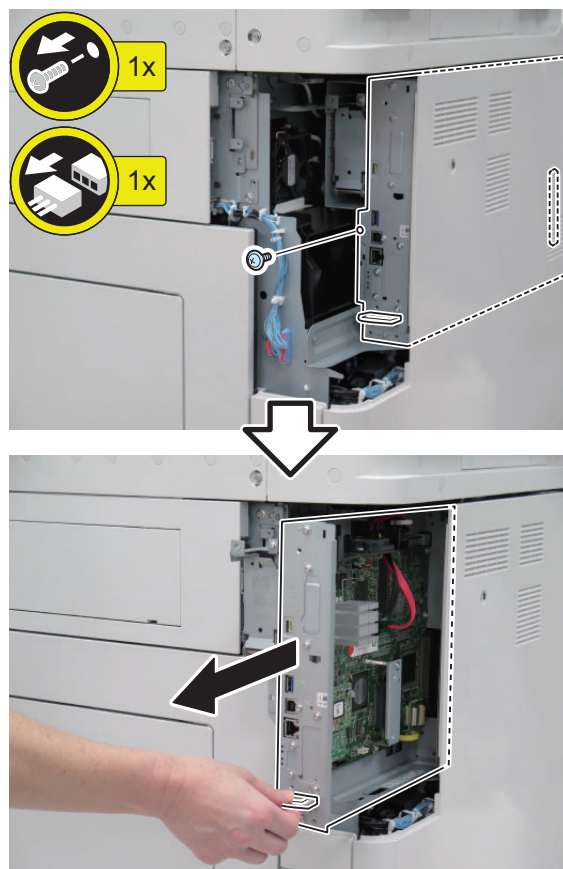
□ 2



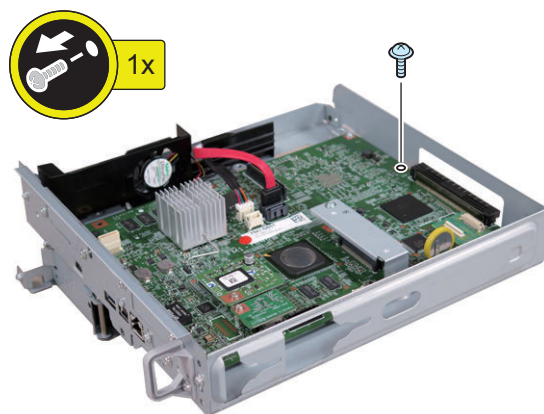
□ 3



□ 4

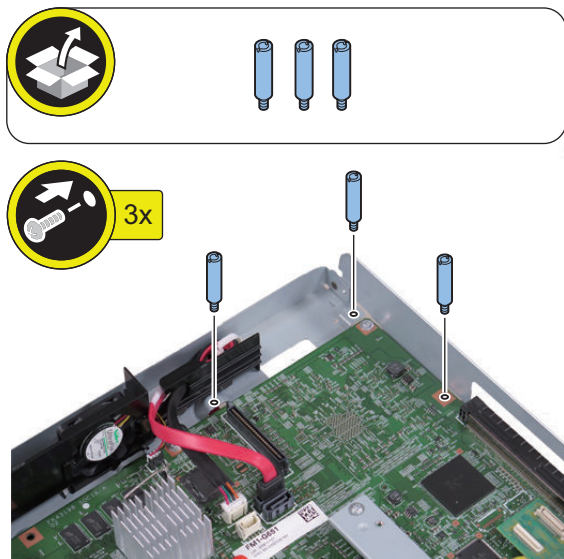


□ 5



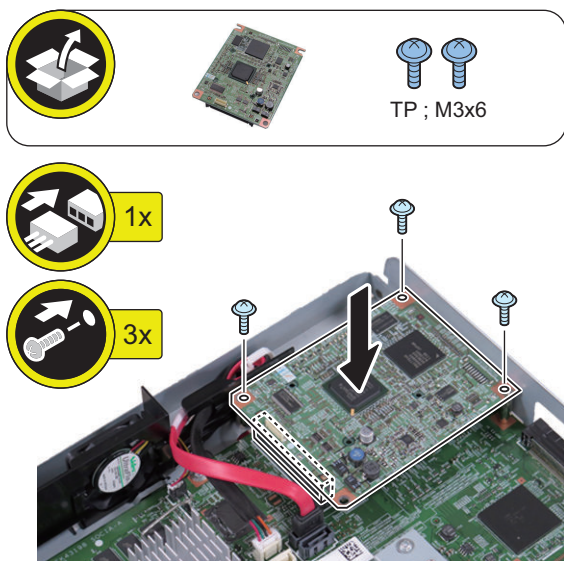
NOTE:
The removed screw will be used in step 7.

□ 6



□ 7

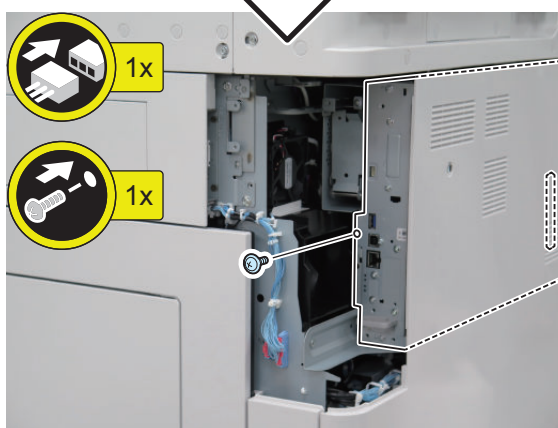
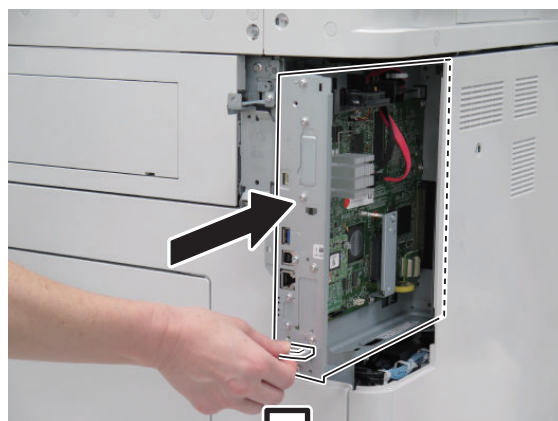
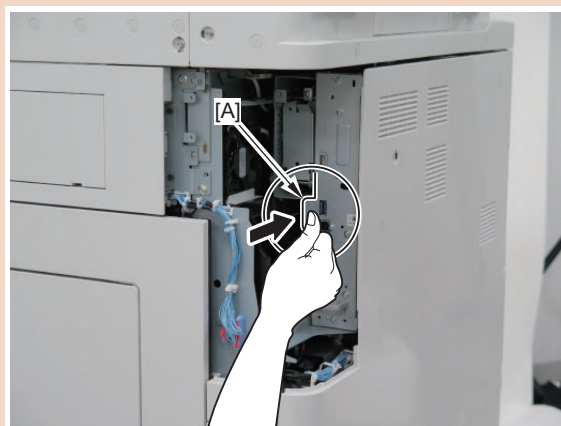
NOTE:
Use the screw removed in step 5.



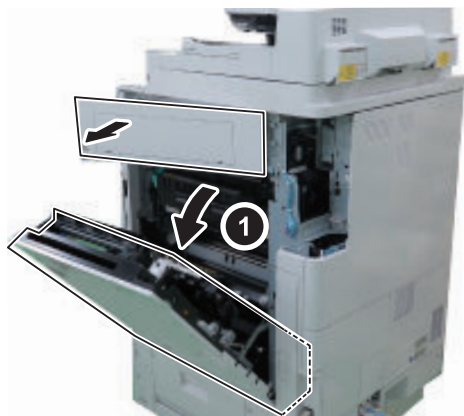
□ 8

CAUTION:

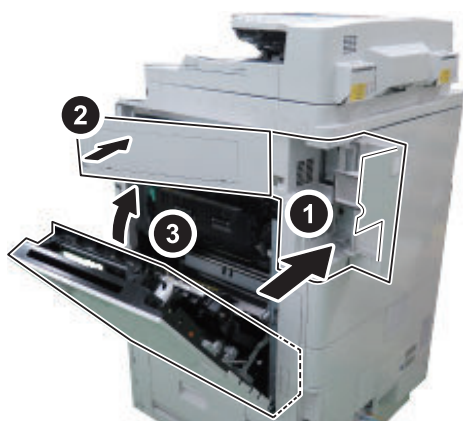
- Be sure to insert the Main Controller PCB 1 until it stops.
- Be sure to push [A] part hard to install it, otherwise the connector may not be connected properly.



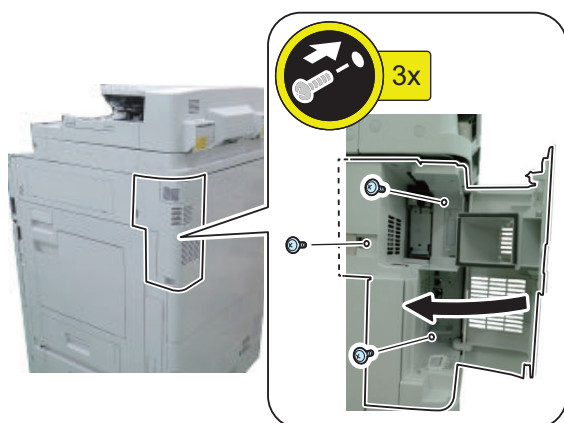
□ 9



□ 10



□ 11



3. If a message prompting the user to update the version appears, press [Update] to automatically update the version of the host machine.

NOTE:

If [Skip] is selected, a message prompting the user to update the version will appear every time the host machine is started. In the service mode (Lv.2) shown below, it is possible to set not to display the message prompting the user to update the version.

COPIER > OPTION > FNC-SW > VER-CHNG

4. Ask users to install license.
5. Turn OFF/ON the main power switch.
6. Press [Counter/Device Information] > [Device Info./ Other] > [Check Device Configuration] key on the control panel.
7. Check that "Image Data Analyzer Board" is displayed in option field.

● Checking after Installation

□

1. Connect the power plug of the host machine to the power outlet.
2. Turn ON the main power switch.

Voice Operation Kit-D1

Points to Note at Installation

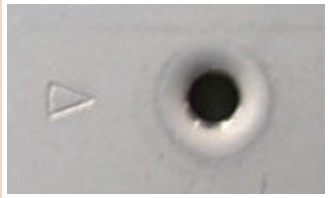
Refer to "Combination of options" when installing this equipment before operation.

Table of Options Combination

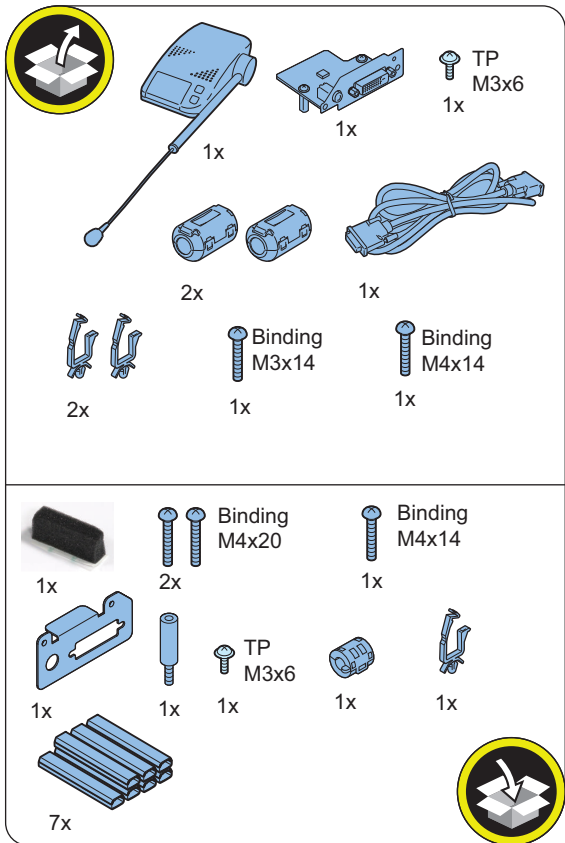
	Copy Card Reader	Copy Control I/F Kit	Serial I/F Kit	Voice Guidance Kit	Utility Tray
Voice Operation	Yes	Yes	Yes	No	No

Yes: Available / No: Unavailable

CAUTION:
 Marked portion
 When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.

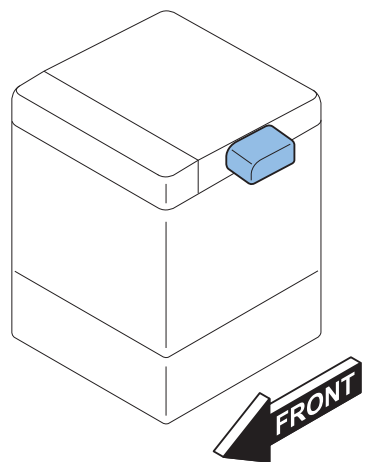


Checking the Contents



<Others>
 Including guides

Installation Outline Drawing



Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

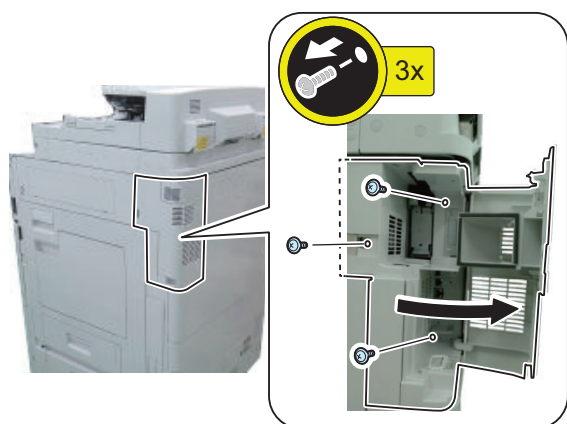
⚠ WARNING:

- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

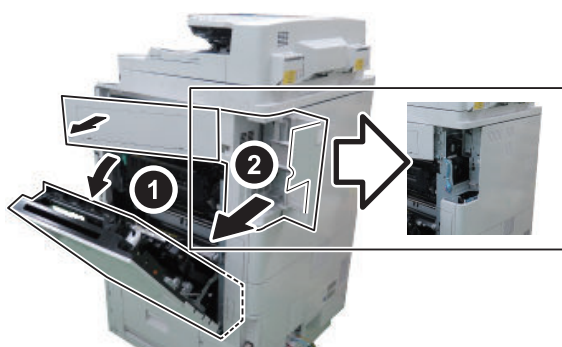
- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Procedure

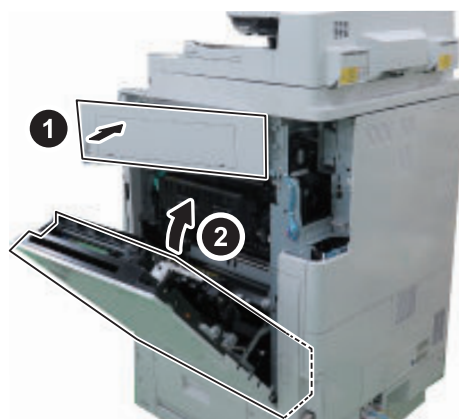
□
1.



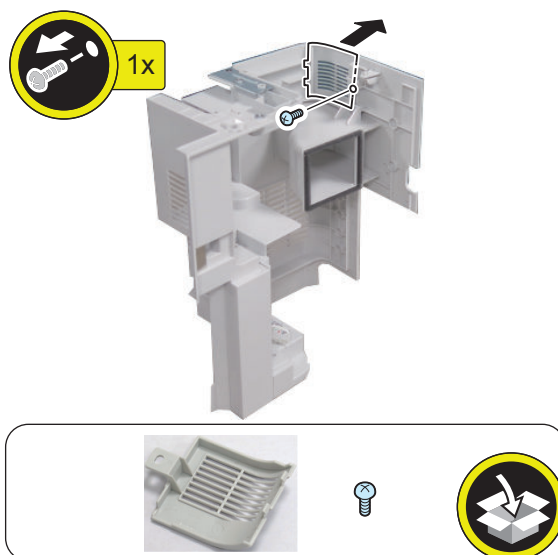
□
2.



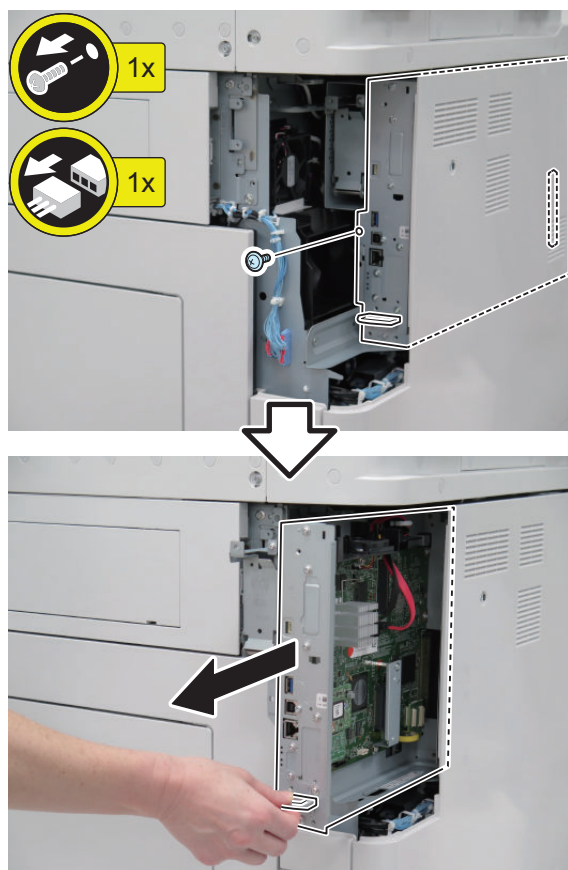
□
3.



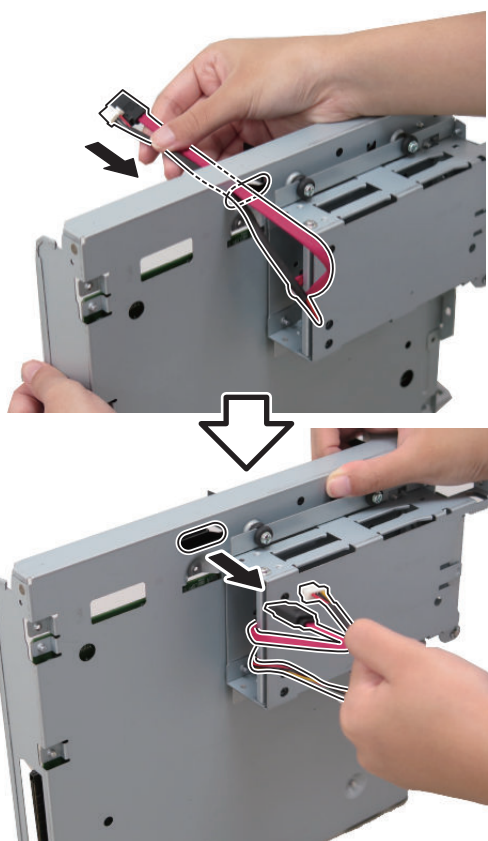
□
4.



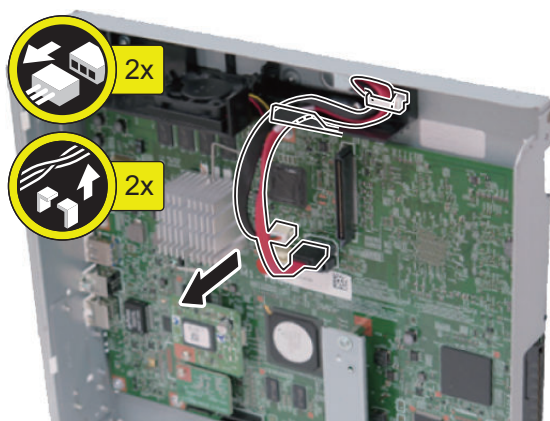
5.



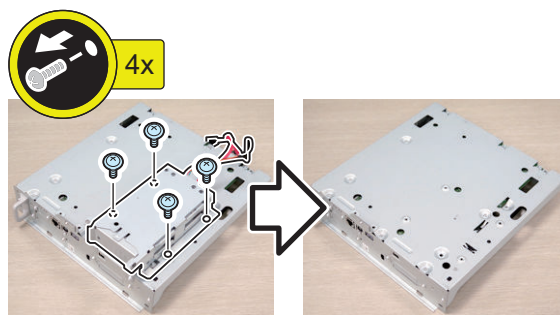
7.



6.



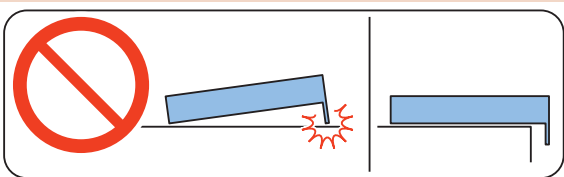
8.



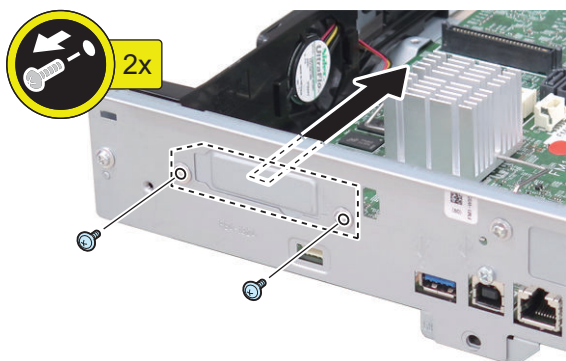
NOTE:
The removed screw will be used in step 11.

CAUTION:

Be sure to place the removed Main Controller PCB 1 flatly. Reason: Due to the protruded plate, the PCB may be deformed if work is performed while it is placed at an angle.



9.



NOTE:

The removed screws will be used at next step.

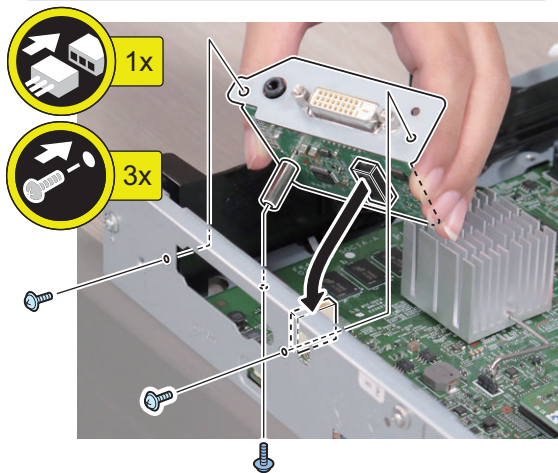
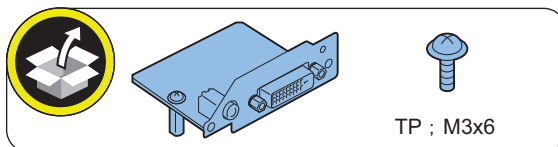
10.

CAUTION:

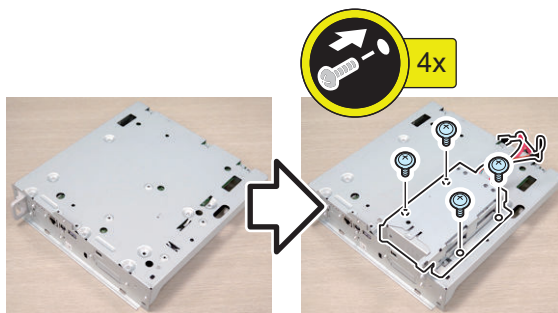
Check that the connector is connected properly.

NOTE:

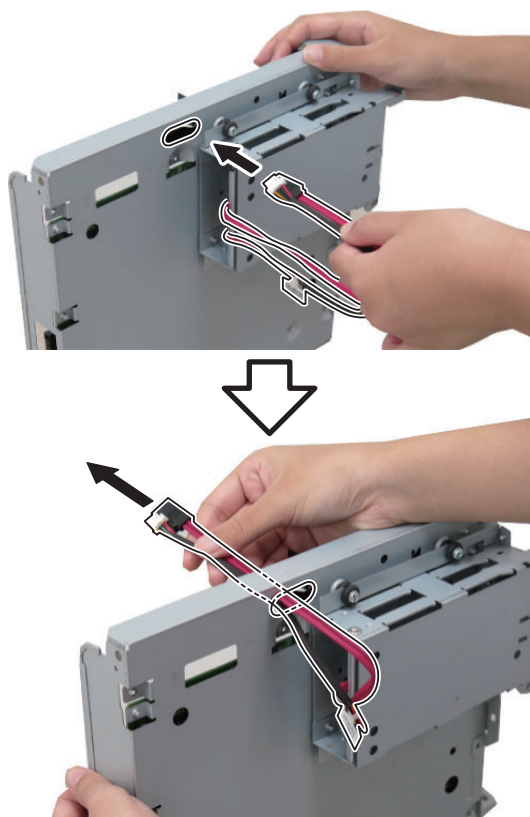
Use the screw removed at previous step.



11.



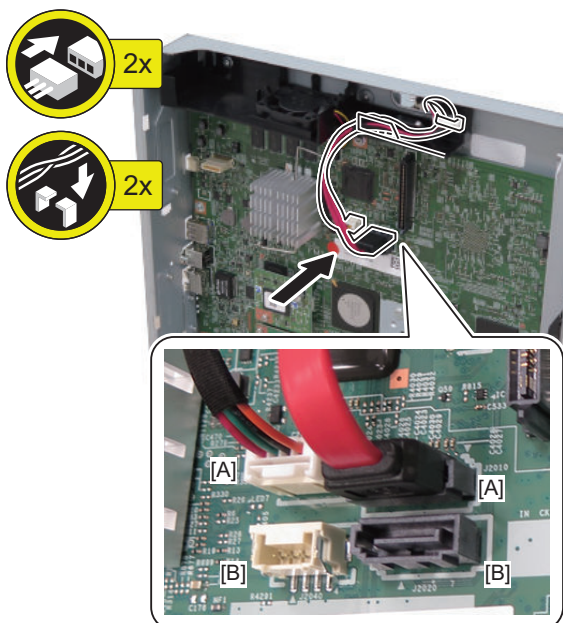
12.



13.

CAUTION:

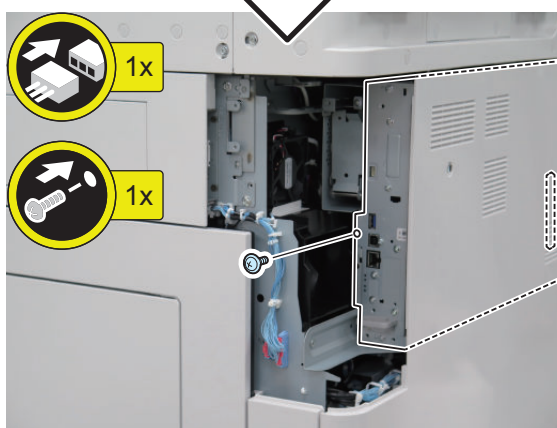
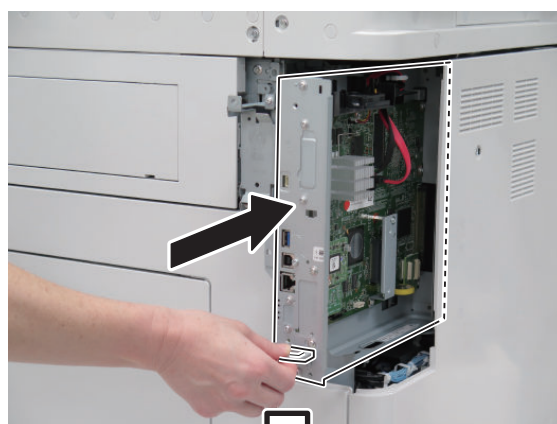
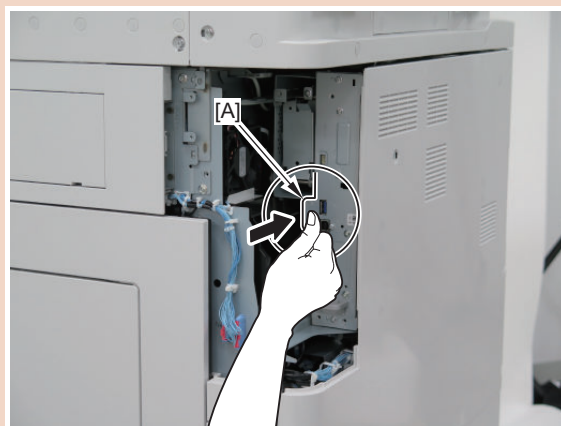
Connect the Communication Cable (red) and Power Supply Cable to [A] of Controller PCB.
If the Communication Cable (red) is connected to [B], the HDD error occurs.



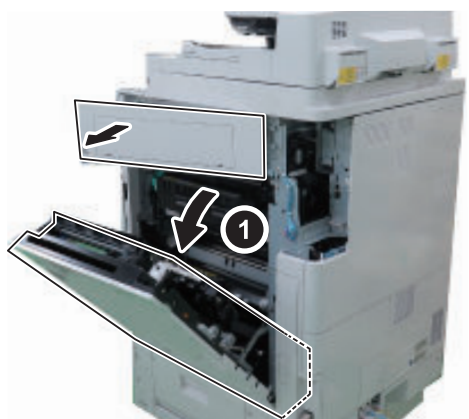
14.

CAUTION:

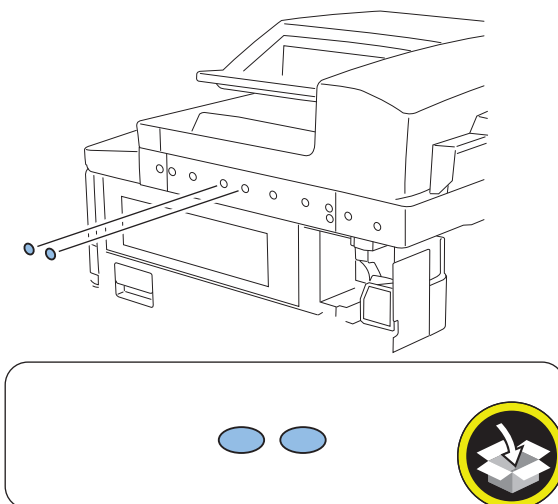
- Be sure to insert the Main Controller PCB 1 until it stops.
- Be sure to push [A] part hard to install it, otherwise the connector may not be connected properly.



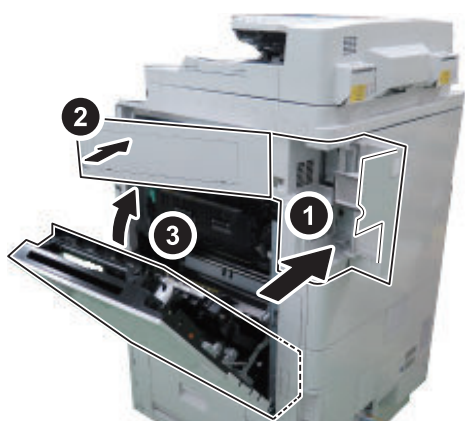
15.



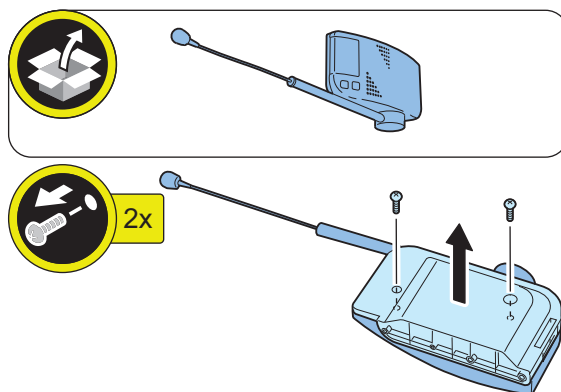
18.



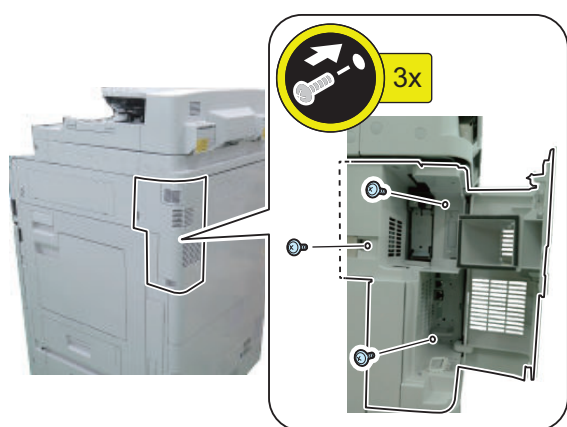
16.



19.



17.



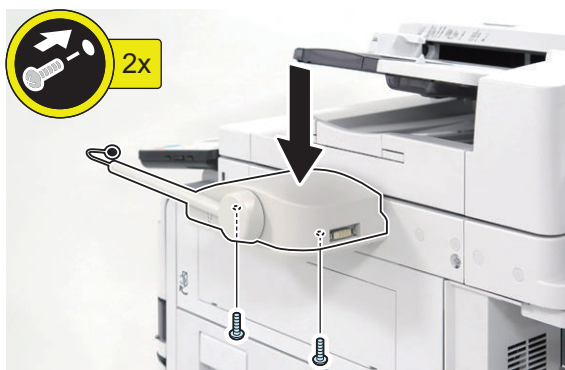
NOTE:
The removed screw will be used in step 21.

20.

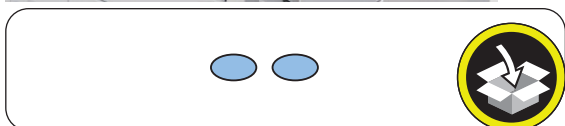


21.

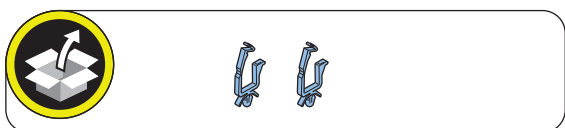
NOTE:
Use the screw removed in step 19.



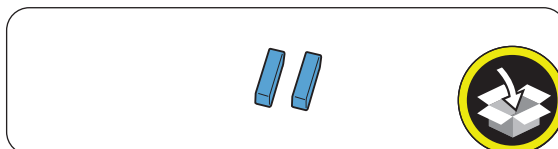
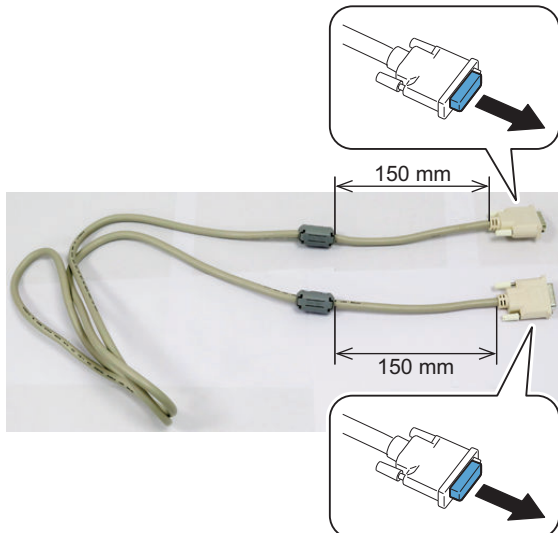
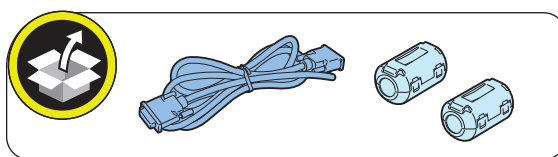
22.



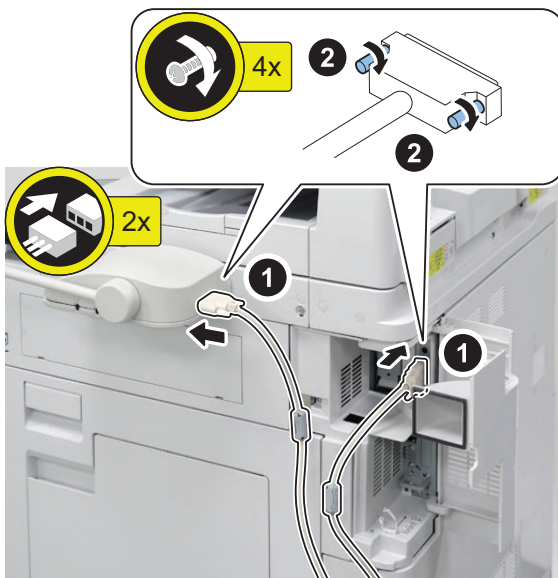
23.



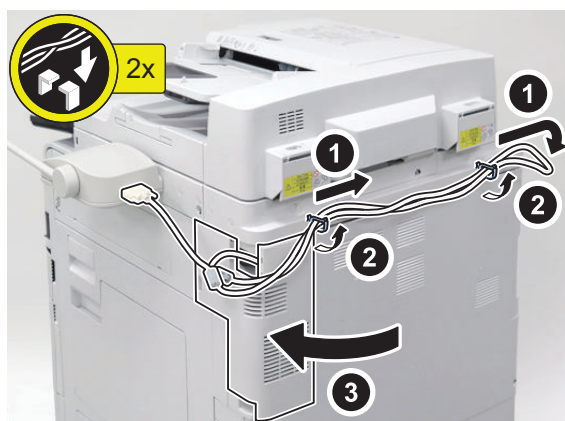
24.



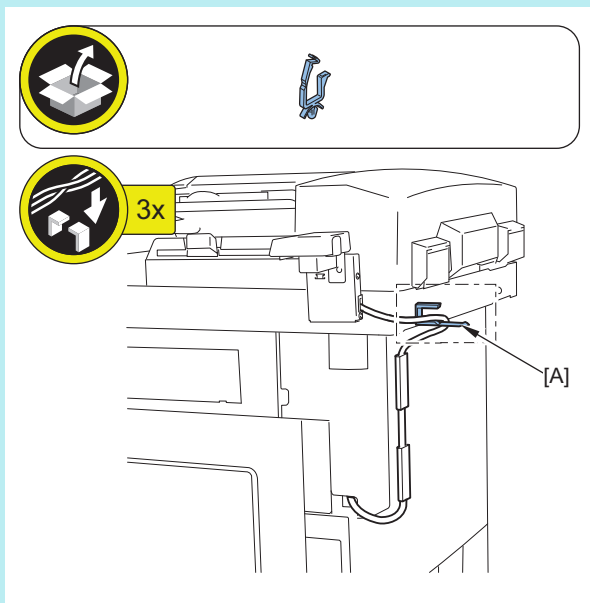
25.



26.

**NOTE:**

- When using in combination with the Copy Card Reader
- Secure the Card Reader External Relay Harness in place together with the DVI Cable using the Wire Saddle [A] included in the package of Voice Operation Kit.
 - Even when used in combination with the Card Reader, the routing of the cable is same.
 - The same also applies to the Duct Model for EUR.



Checking after Installation

NOTE:

When changing the settings upon user's request, it is required to log in as a system manager in accordance with instructions from the user administrator.

1. Connect the power plug of the host machine to the power outlet.

2. Turn ON the main power switch.
3. [Settings/Registration] > [Preferences] > [Accessibility] > [Voice Navigation Settings] > and make sure that [Use Voice Navigation] is [ON].
4. [Settings/Registration] > [Preferences] > [Accessibility] > [Voice Navigation Settings] > [Voice Navigation at Startup] and make sure that is [Select Mode at Startup] set.
5. [Settings/Registration] > [Preferences] > [Accessibility] > [Voice Navigation Settings] > and make sure that [Tune Microphone] is displayed.
6. Turn OFF/ON the main power of the Host Machine.

Operation Check

■ When Starting to Use

1. Press "Reset" key or the Voice Recognition button for more than 3 seconds.
2. In "Select the Voice Navigation type." on the Control Panel screen, select "Manual + Vocal Mode", "Vocal Mode" or "Manual Mode", and press OK.
3. Once the indication on the screen is framed in red, the "Voice Operation Kit" becomes enabled.

NOTE:

When "Manual Mode" is selected in "Select the Voice Navigation type.", nothing happens by pressing the Voice Recognition button.

■ When Stopping to Use

1. Press "Reset" key or the Voice Recognition button for more than 3 seconds.

Voice Guidance Kit-G1

Points to Note at Installation

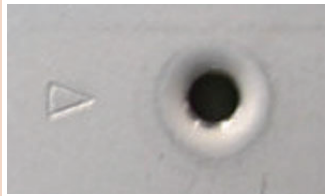
Refer to "Combination of options" when installing this equipment before operation.

Table of Options Combination

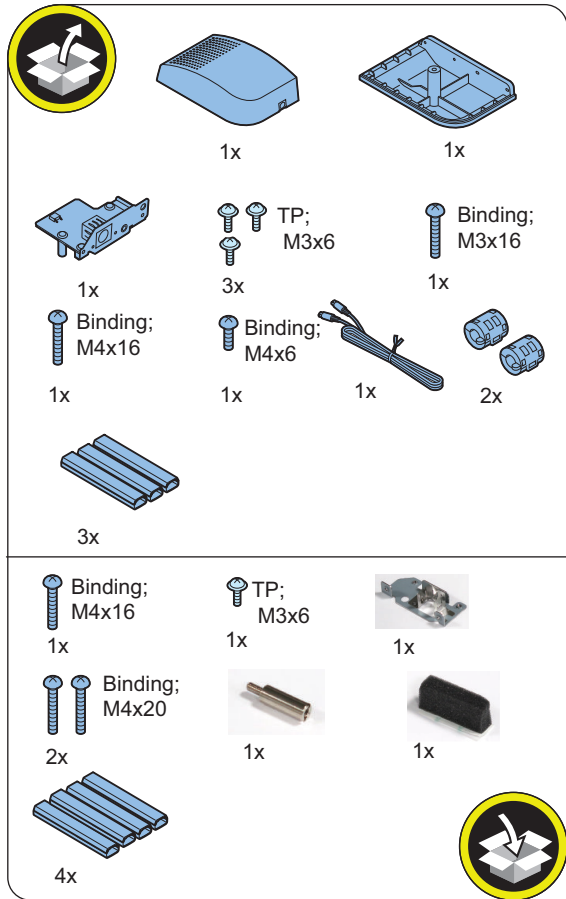
	Copy Card Reader	Copy Control I/F Kit	Serial I/F Kit	Voice Operation	Utility Tray
Voice Guidance Kit	Yes	Yes	Yes	No	No

Yes: Available / No: Unavailable

CAUTION:
 Marked portion
 When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.



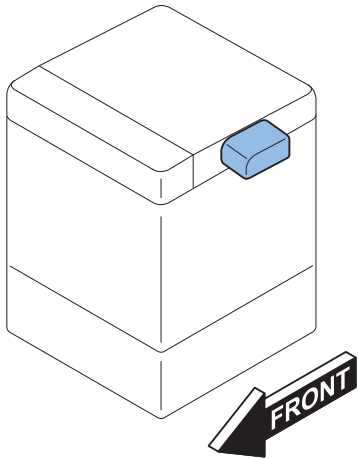
Checking the Contents



- 1x [Main Unit]
- 1x [Utility Tray]
- 1x Binding; M4x16
- 3x TP; M3x6
- 1x Binding; M3x16
- 1x Binding; M4x6
- 1x [Cable]
- 2x [Small Components]
- 3x [Guides]
- 1x Binding; M4x16
- 1x TP; M3x6
- 1x [Small Component]
- 2x Binding; M4x20
- 1x [Small Component]
- 1x [Black Component]
- 4x [Guides]

<Others>
 Including guides

Installation Outline Drawing



Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

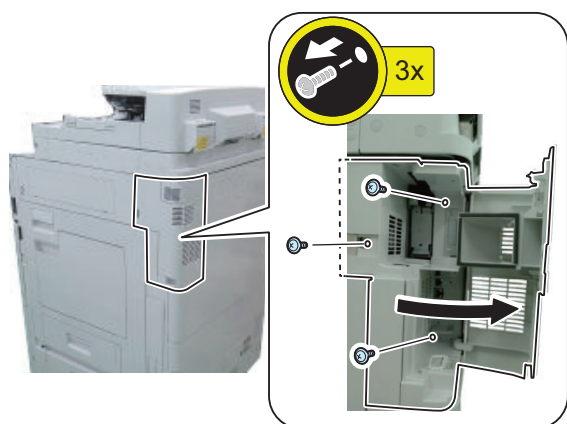
⚠ WARNING:

- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

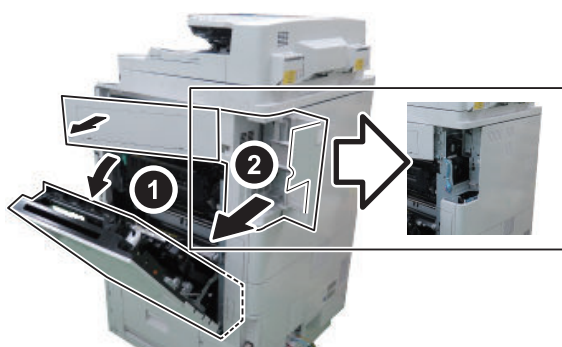
- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Procedure

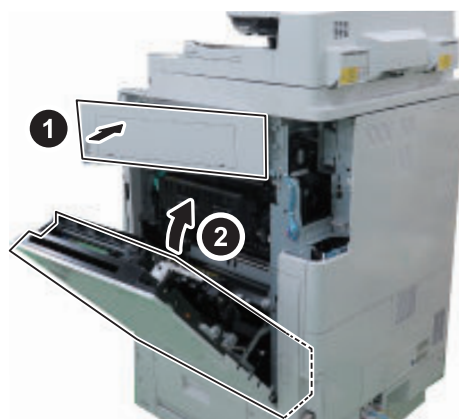
□
1.



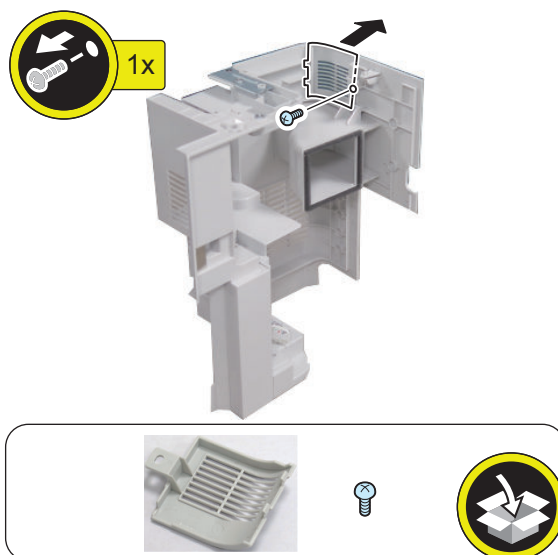
□
2.



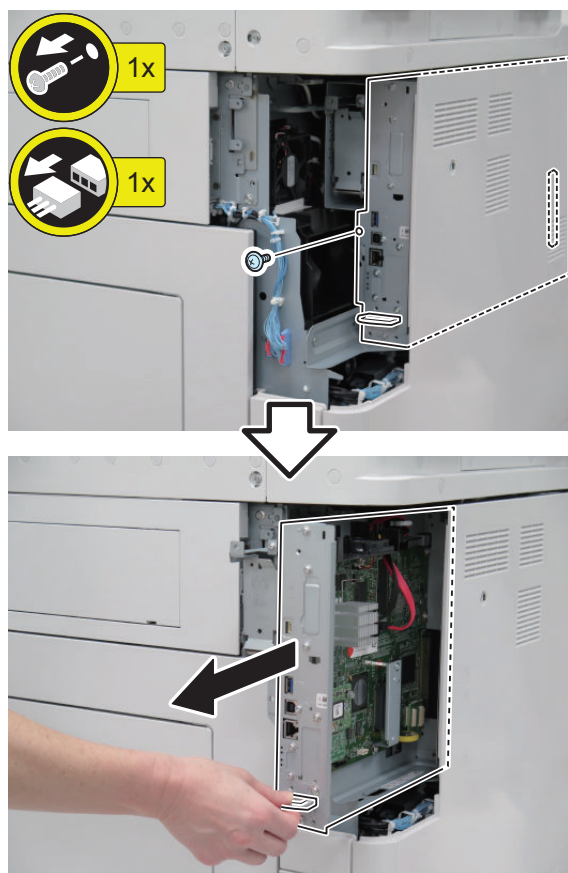
□
3.



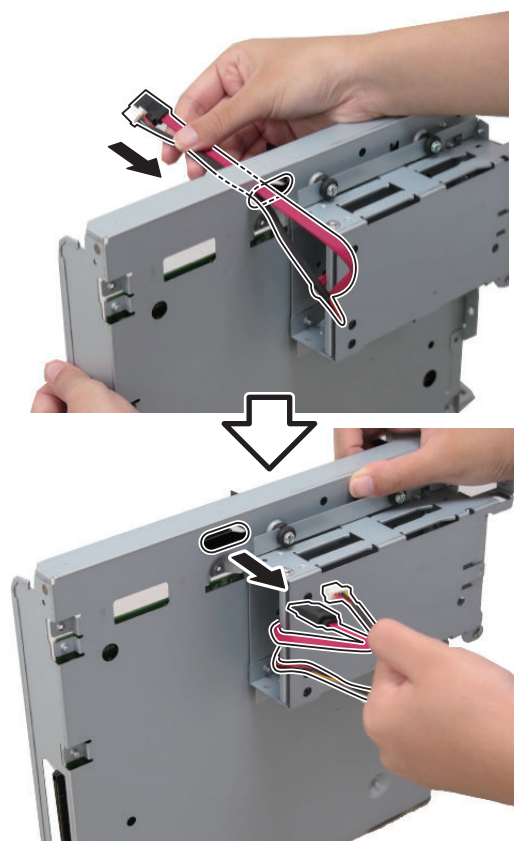
□
4.



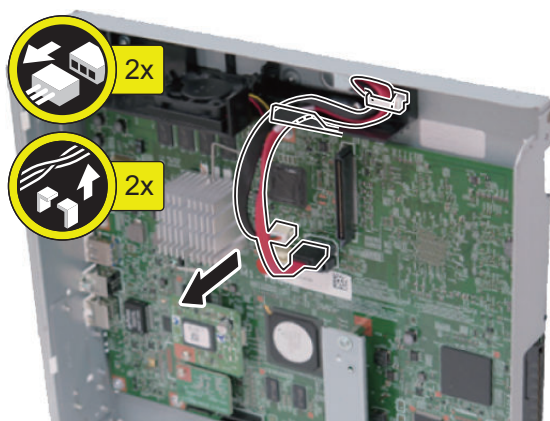
□
5.



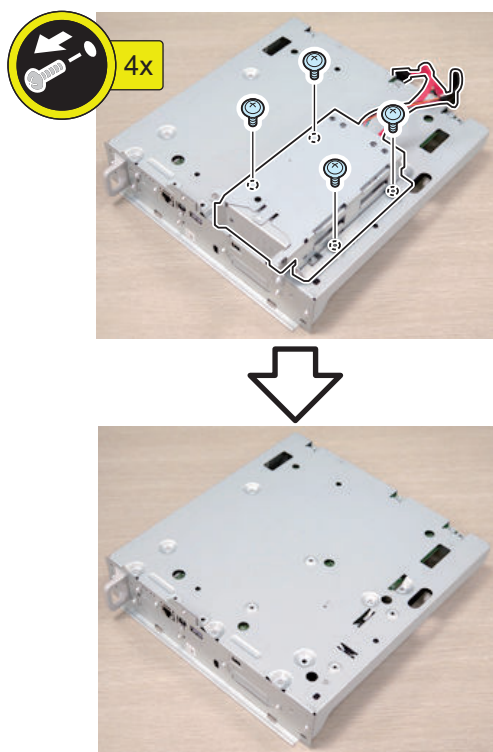
□
7.



□
6.



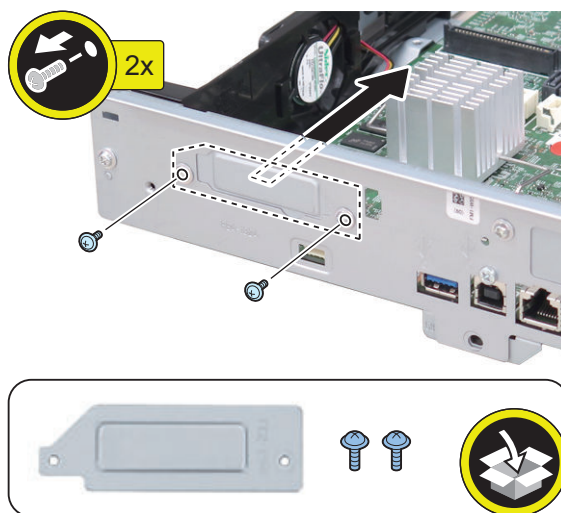
8.



NOTE:
The removed screw will be used in step 11.

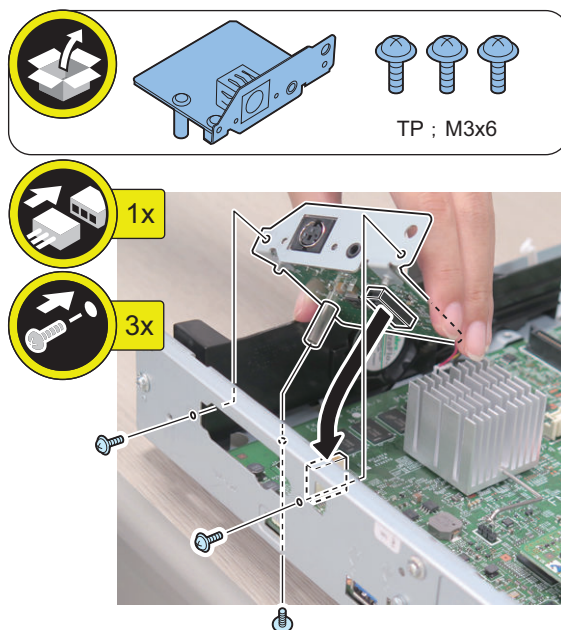
CAUTION:
Be sure to place the removed Main Controller PCB 1 flatly. Reason: Due to the protruded plate, the PCB may be deformed if work is performed while it is placed at an angle.

9.



10.

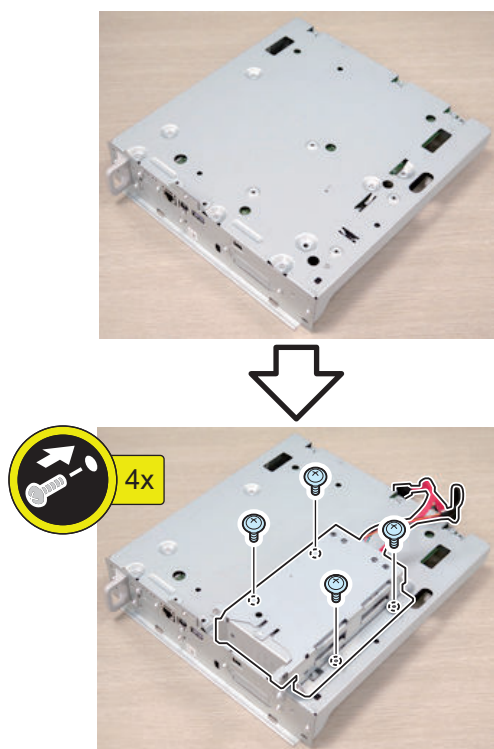
CAUTION:
Check that the connector is connected properly.



□
11.

NOTE:

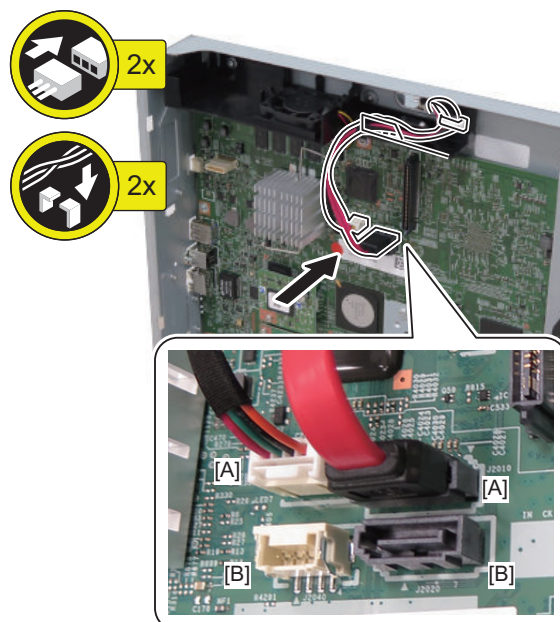
The removed screw will be used in step 8.



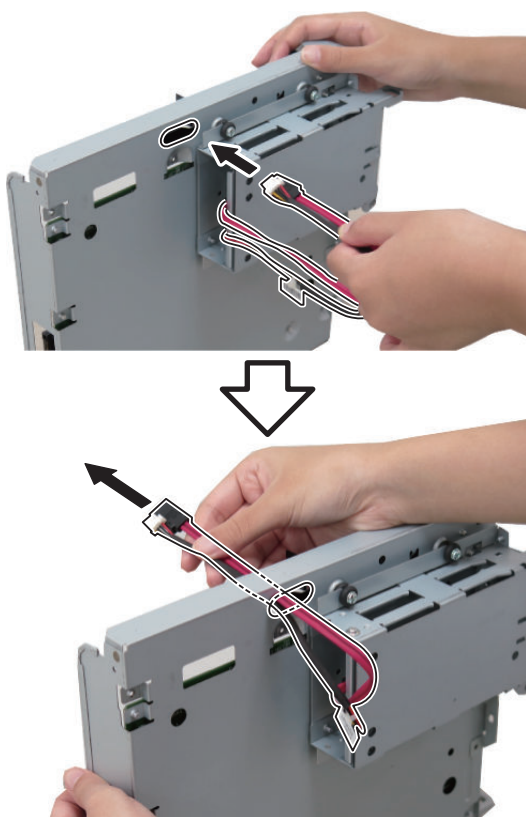
□
13.

CAUTION:

Connect the Communication Cable (red) and Power Supply Cable to [A] of Controller PCB.
If the Communication Cable (red) is connected to [B], the HDD error occurs.



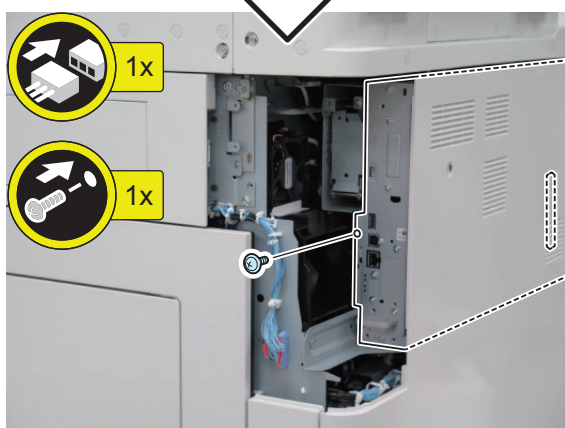
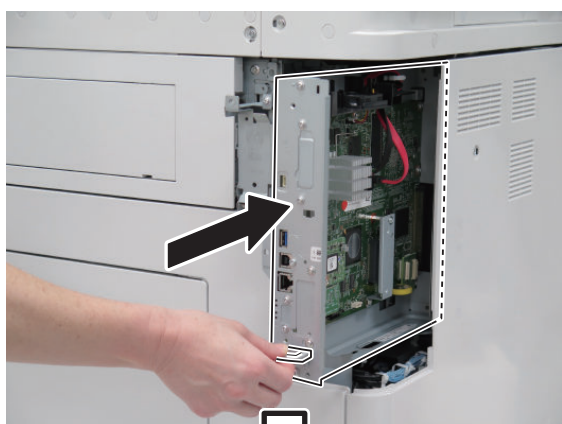
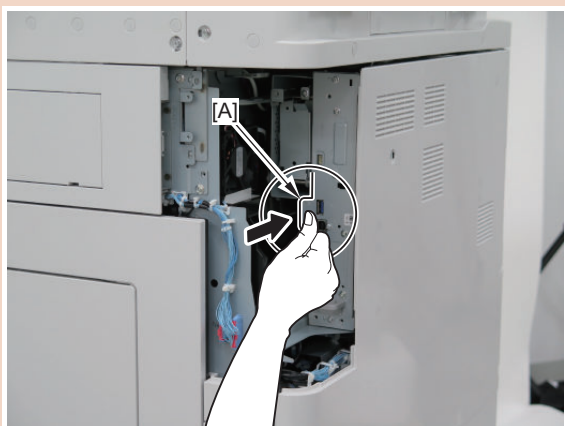
□
12.



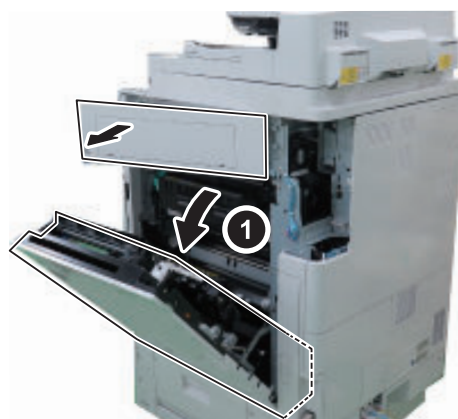
14.

CAUTION:

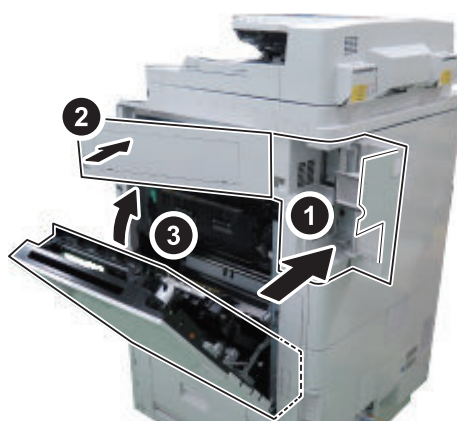
- Be sure to insert the Main Controller PCB 1 until it stops.
- Be sure to push [A] part hard to install it, otherwise the connector may not be connected properly.



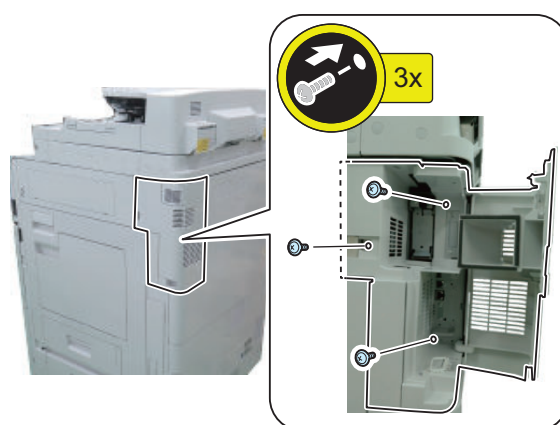
15.



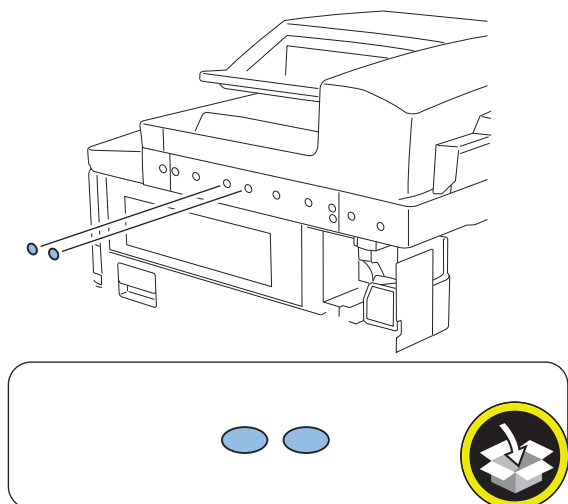
16.



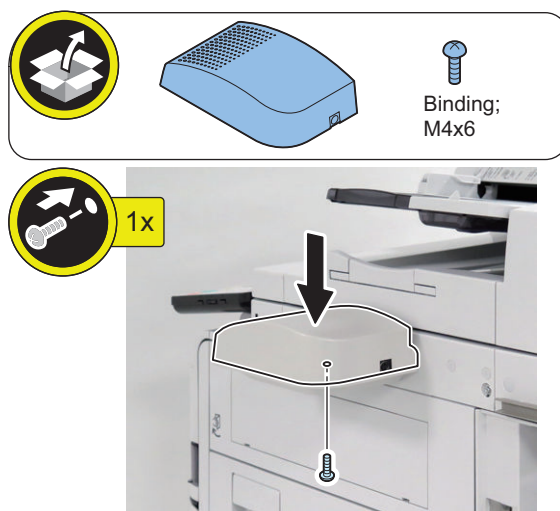
17.



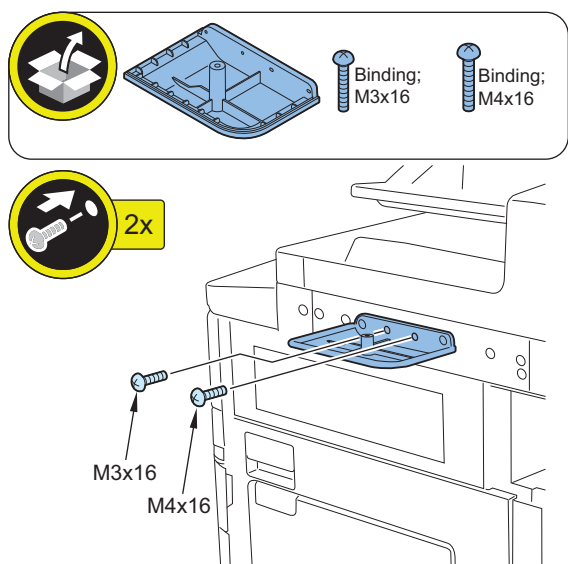
18.



20.

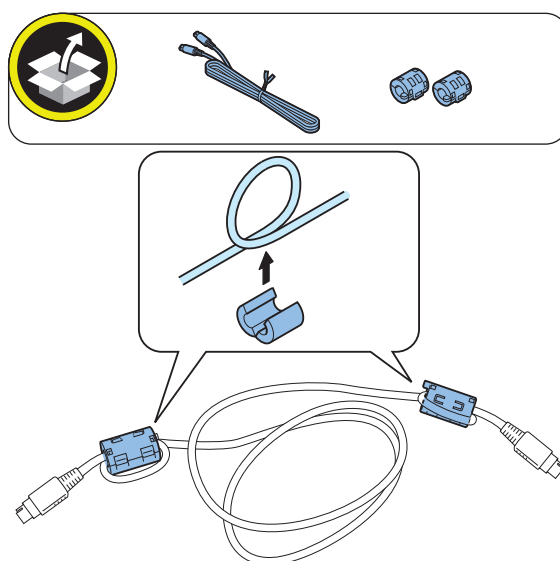
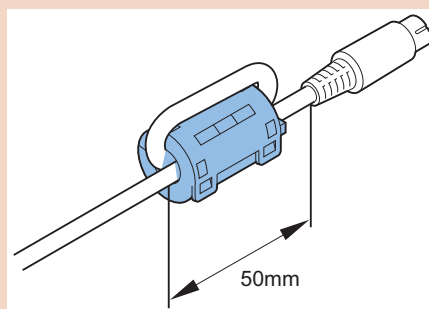


19.

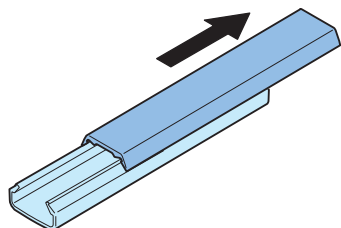
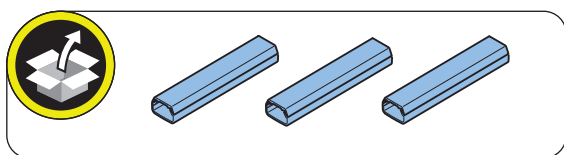


21.

CAUTION:
Be sure to attach the Ring Cores within 50 mm from the end of the Speaker Cable.



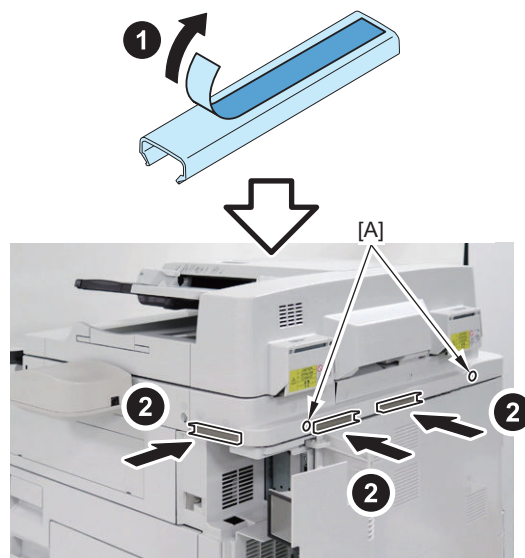
□
22.



□
23.

NOTE:

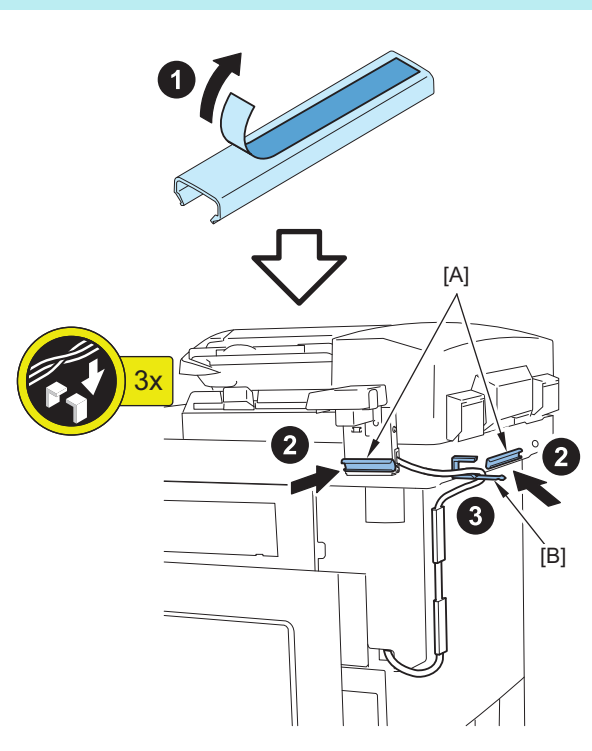
Do not affix the Cord Guide on the Face Seal [A].



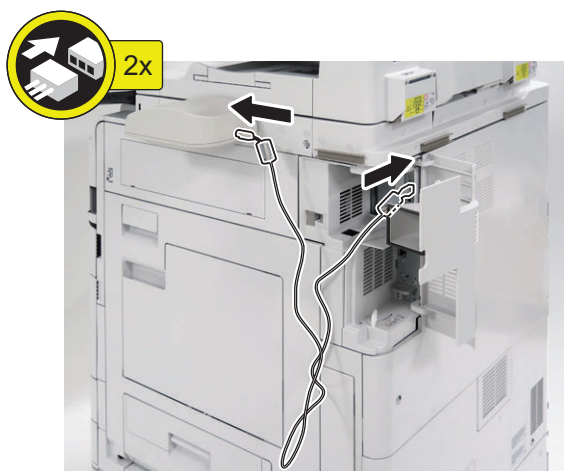
NOTE:

When using in combination with the Copy Card Reader

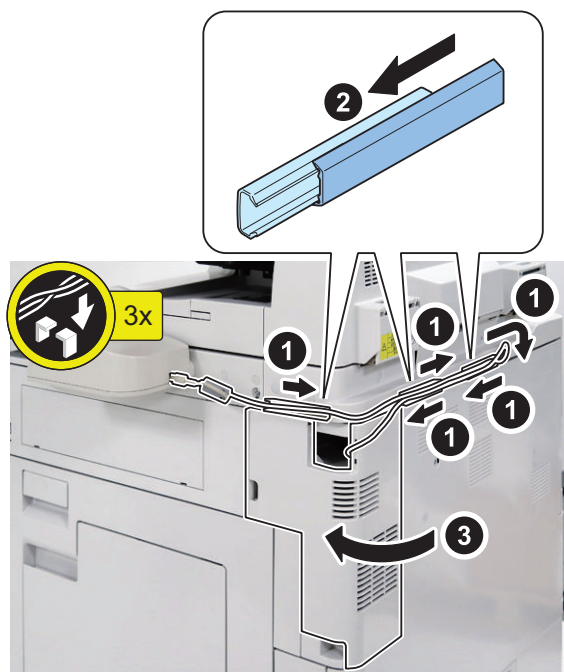
- Affix the 2 Cord Guides [A] as shown in the figure, and use the Wire Saddle [B] included in the Card Reader Attachment.
- The same also applies to the Duct Model for EUR.



24.



25.



3. Select [Settings/Registration] > [Preferences] > [Accessibility] > [Voice Navigation Settings] > [Use Voice Navigation], and check that the setting is [ON].
4. Select [Settings/Registration] > [Preferences] > [Accessibility] > [Voice Navigation Settings] > [Voice Guide from Speakers], and check that the setting is ON.

● Operation Check

■ When Starting to Use

-
1. Press reset key 3secs or more.
 2. Press [Main Menu] in Control Panel.
 3. If the display in panel screen is boxed with red frame, "Voice Guidance Kit" is available.

■ When Stopping to Use

-
1. Press "Reset" key or the Voice Recognition button for more than 3 seconds.

● Checking after Installation

NOTE:

When changing the settings upon user's request, it is required to log in as a system manager in accordance with instructions from the user administrator.

-
1. Connect the power plug of the host machine to the power outlet.
 2. Turn the main power switch ON.

IC Card Reader Box-C1/C2

Points to Note when Installing

- When installing this equipment, the Card Reader (sales company's option) is required.
- Although pictures or illustrations used for explanation may differ from the actual things, the procedure is the same.


CAUTION:


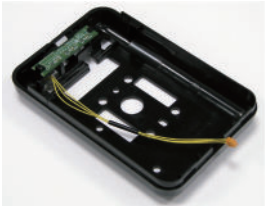




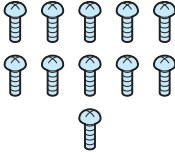
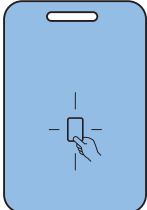
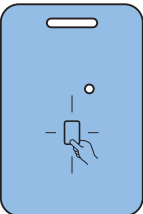
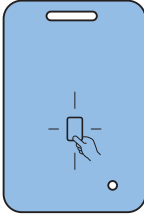
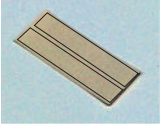

Marked portion

When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.



Checking the Contents

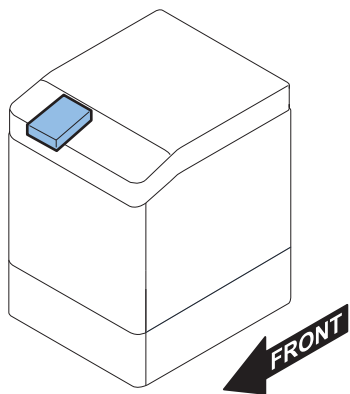


 1x	 1x
 2x	 1x
 1x	 1x
 11x	without LED indication  1x
with LED indication	
 1x	 1x
 1x	
Only for C2  1x	

<Others>

- Including guides

Installation Outline Drawing



Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

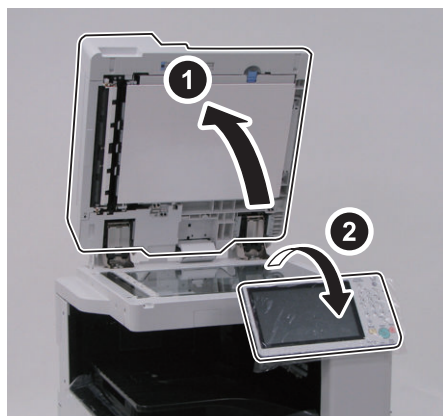
⚠ WARNING:

- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

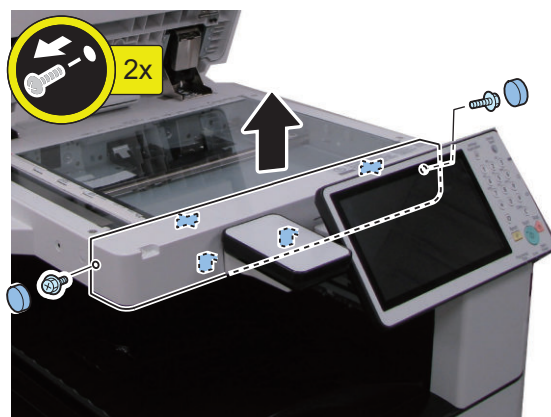
- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Procedure

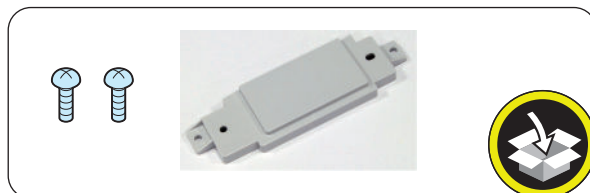
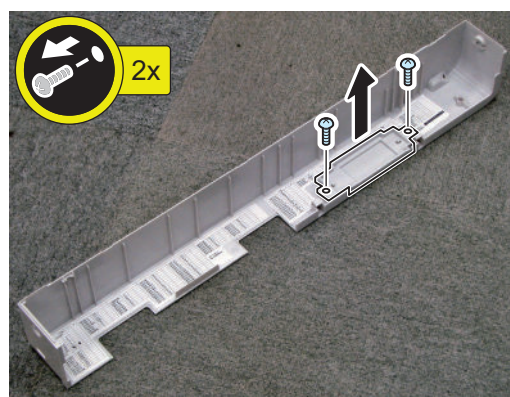
□
1.



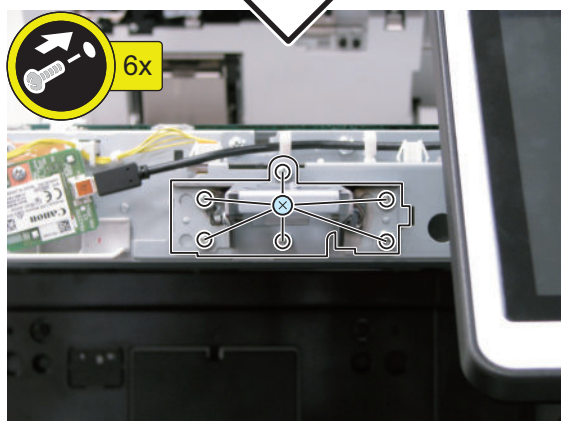
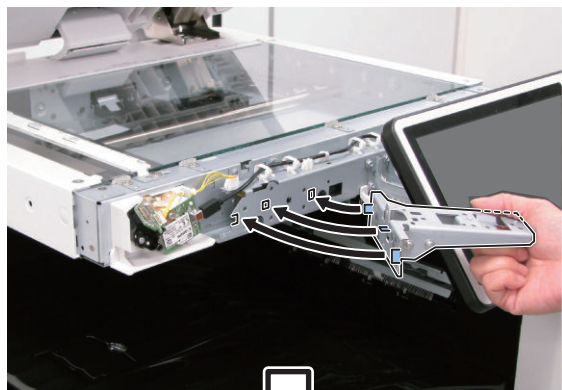
□
2.



□
3.



4.

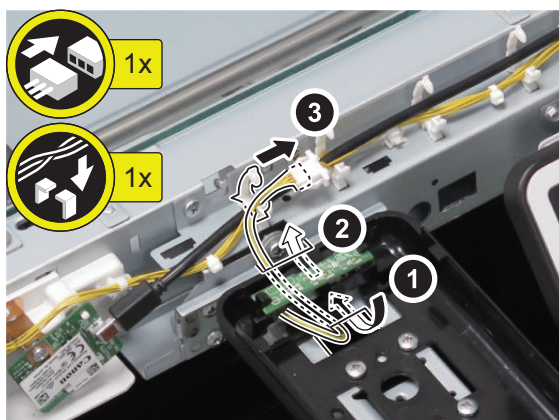


6.

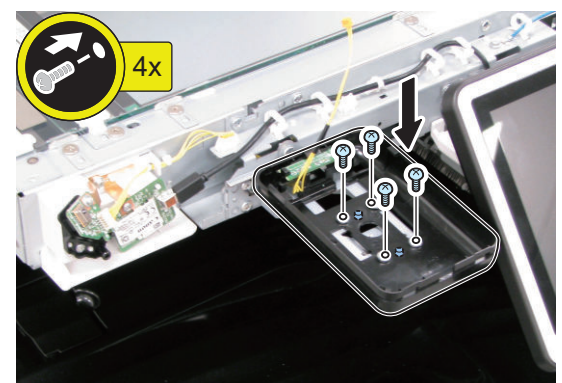
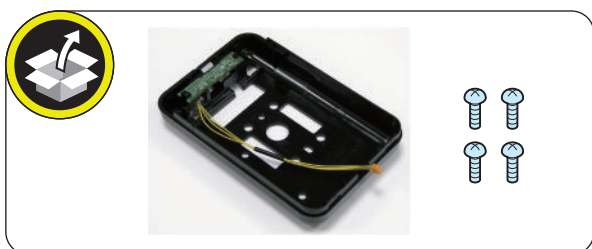


7.

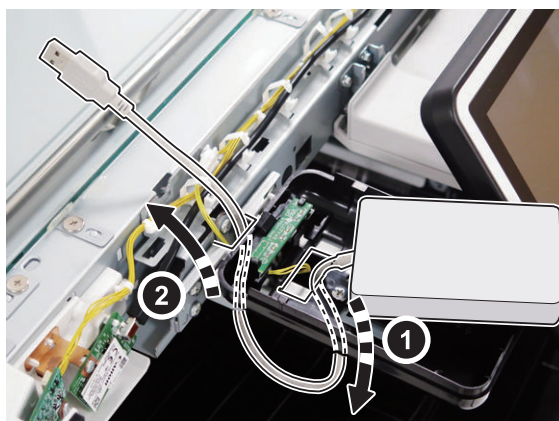
NOTE:
Do not close the Wire Saddle.



5.



8.



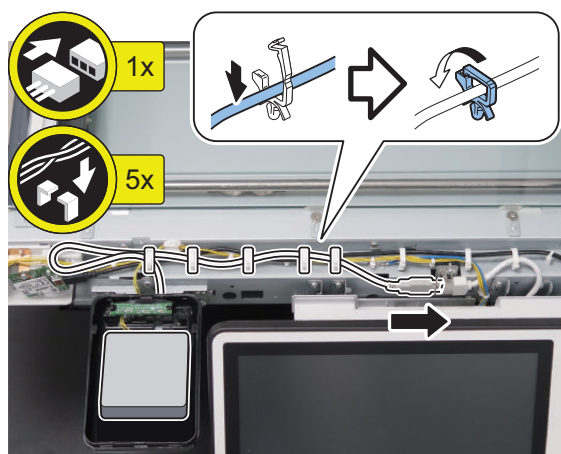
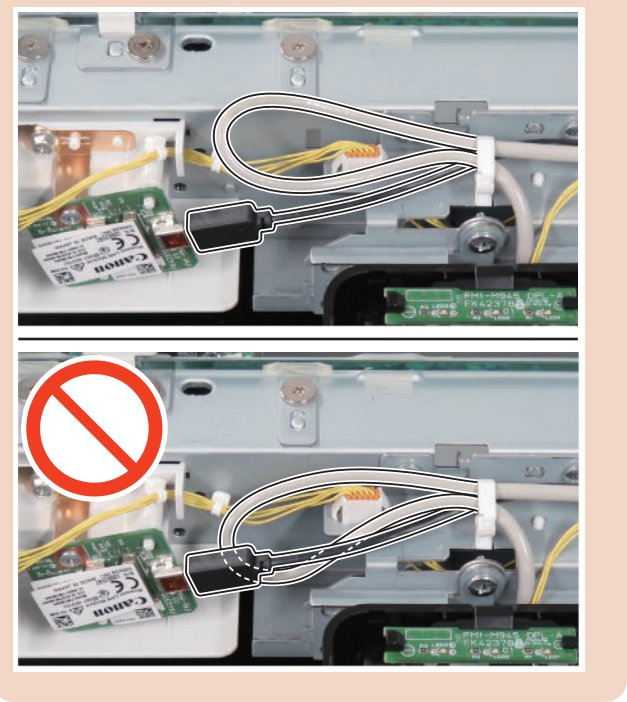
□
9.



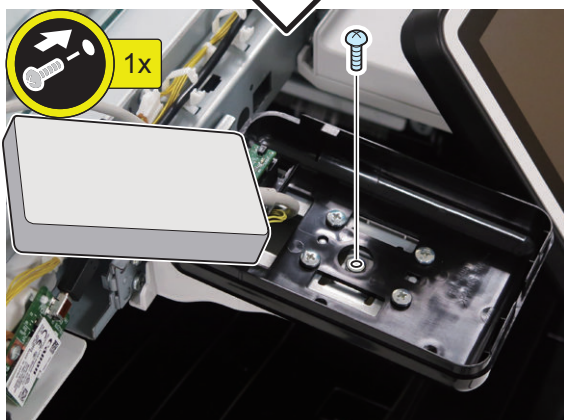
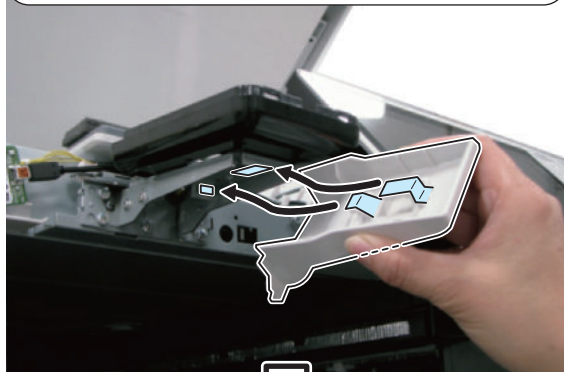
□
10.

NOTE:
Secure the cables as shown in the figure.

CAUTION:
Make sure to avoid putting too much load on the connection port of Wi-Fi cable.

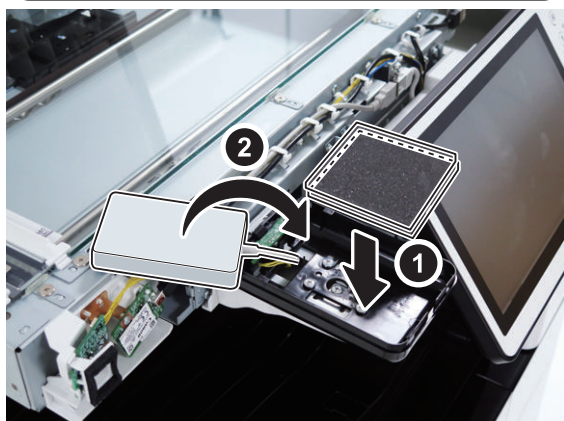
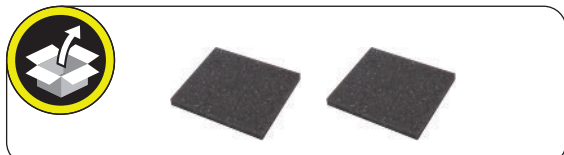


□
11.

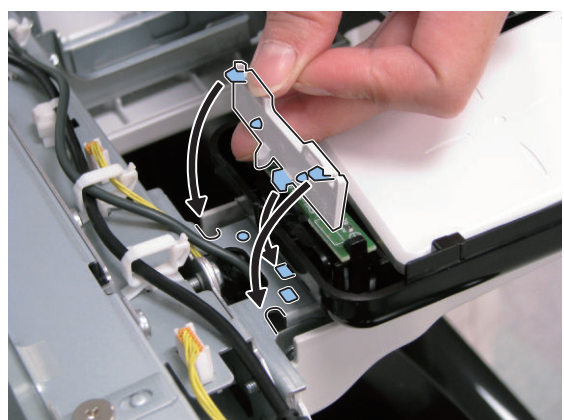


□
12.

NOTE:
Be sure to adjust the number of cushions according to the thickness of the Card Reader.



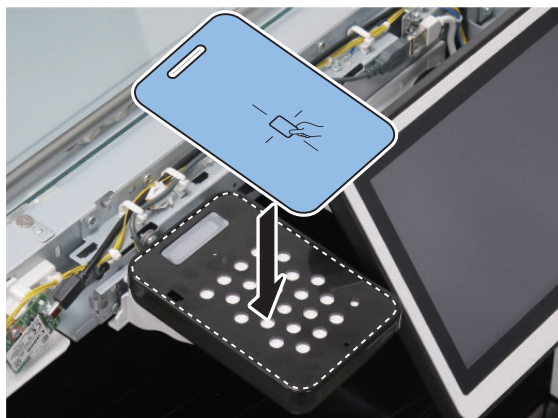
□
13.



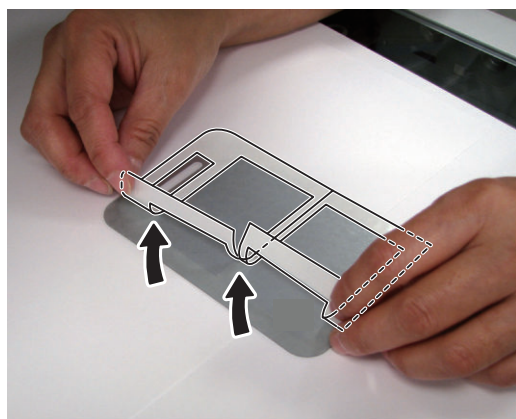
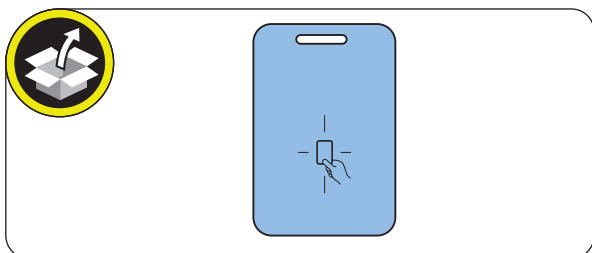
□
14.



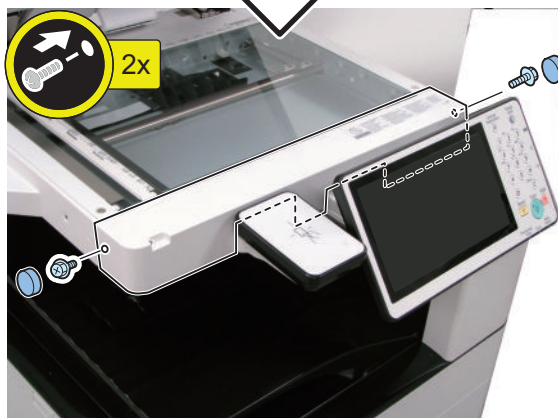
□
16.



□
15.



□
17.



18.



19. Connect the power plug of the host machine to the power outlet.

20. Turn the main power switch ON.

Connection Kit-A1/A2/A3 for Bluetooth LE

Points to Note at Installation

CAUTION:

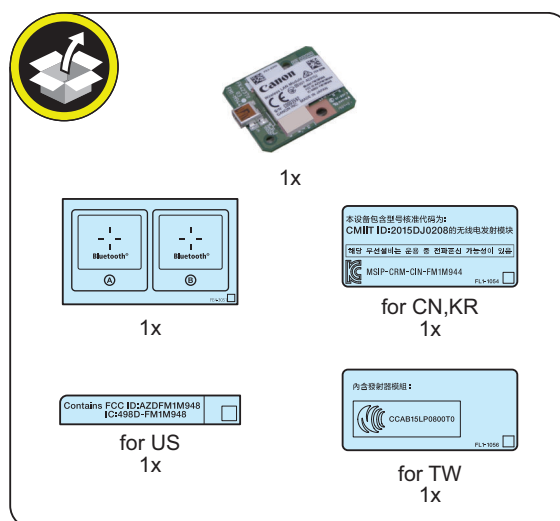
Marked portion

When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.

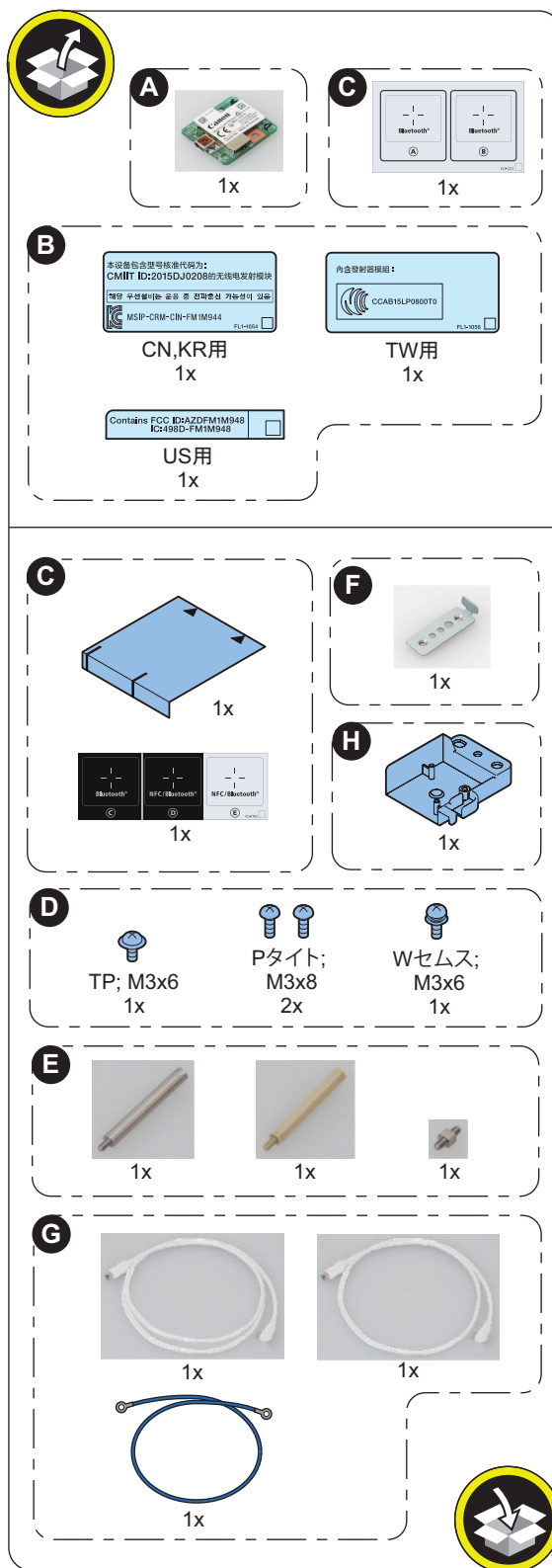


Checking the Contents

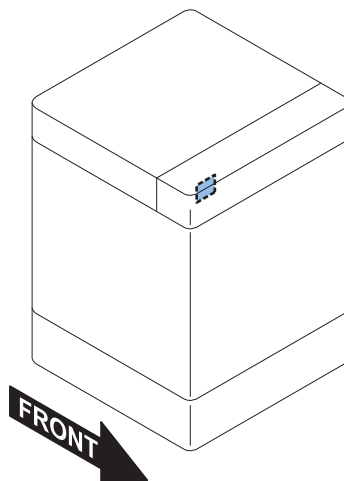
Connection Kit-A1 for Bluetooth LE



Connection Kit-A2 for Bluetooth LE



Installation Outline Drawing



Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

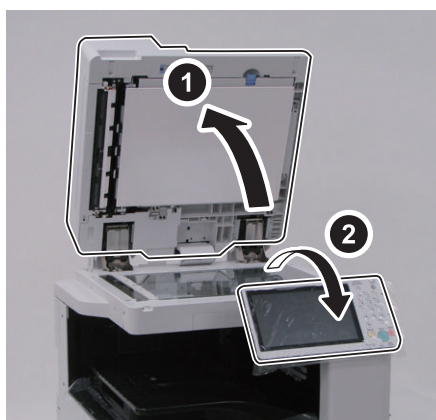
⚠ WARNING:

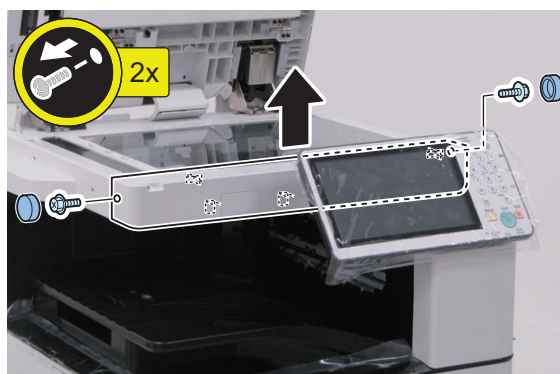
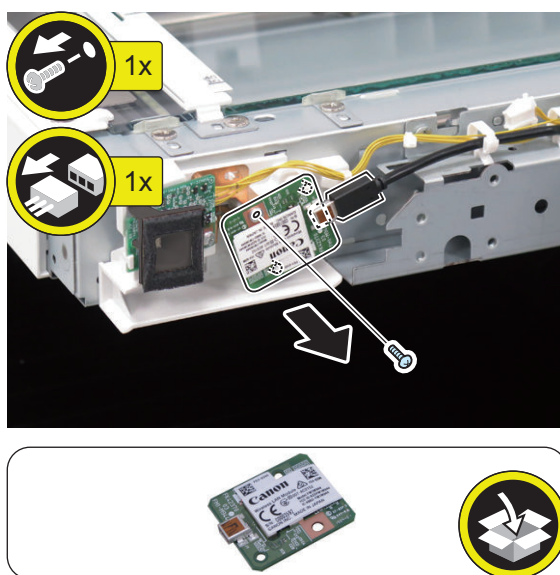
- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
 - If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.
- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Procedure

□

1.

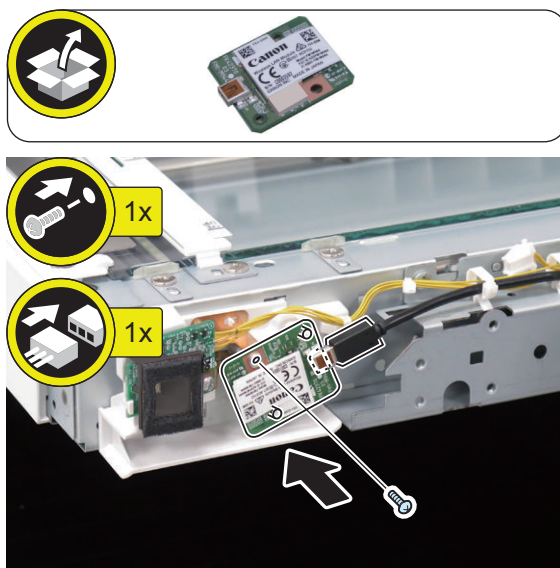
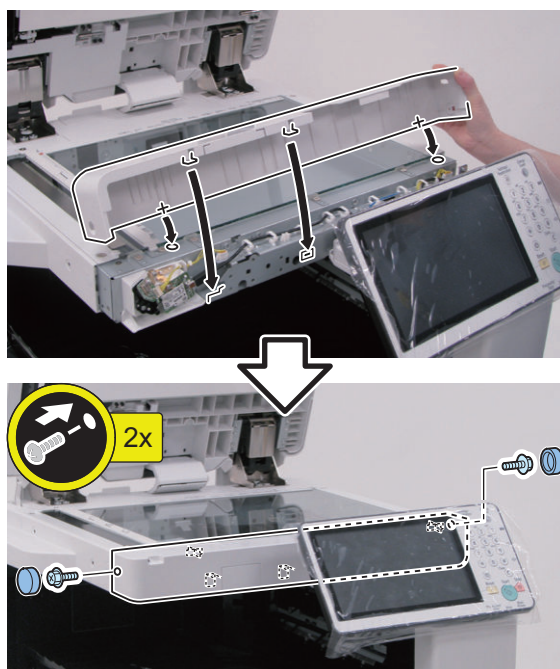


□
2.□
3.**NOTE:**

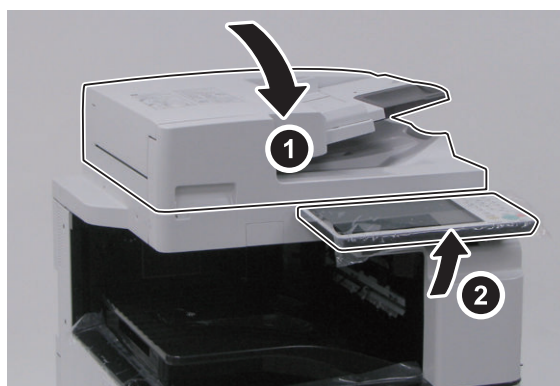
The removed screw will be used in a later step.

□
4.

NOTE:
Use the screw removed in the previous step.

□
5.

□
6.



□
7.

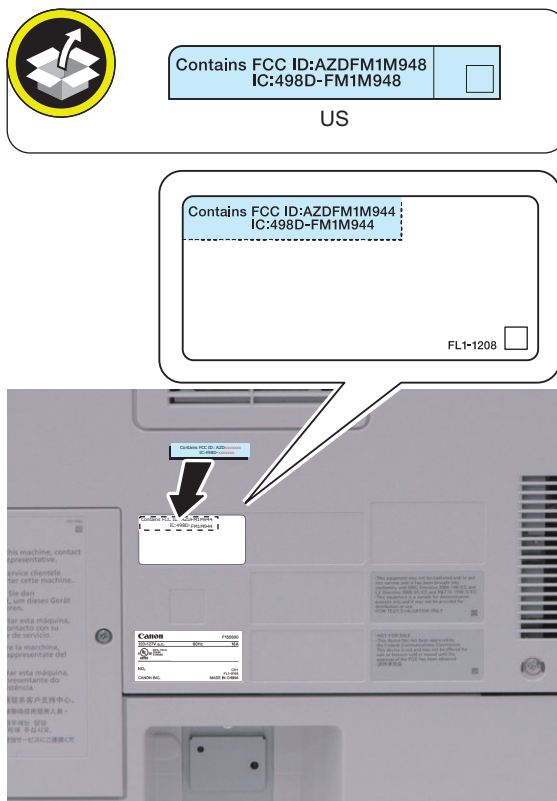


8.

NOTE:
In countries other than the following countries, it is not necessary to affix the Approval Label.

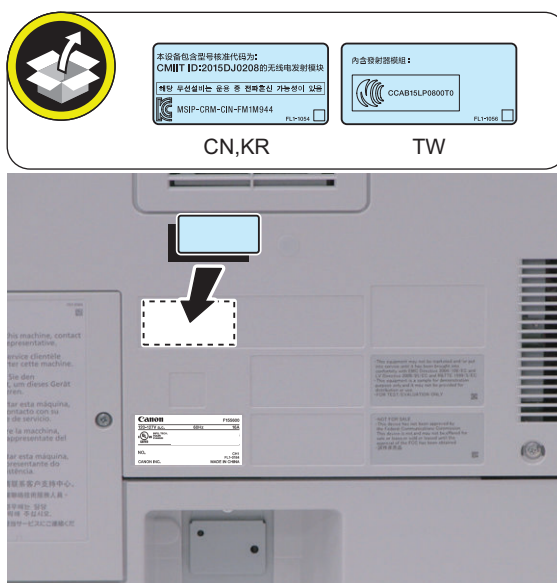
<For US>

Affix it over the number on the Wireless LAN Approval Label.



<For CN, KR, and TW>

Affix it over the Wireless LAN Approval Label.



Setting after Installation



1. Connect the power plug of the host machine to the outlet.
2. Turn ON the main power switch.
3. Enter service mode, and set the value to "1".
COPIER > FUNCTION > INSTALL > BLE-USE

NOTE:

When [System Manager Information Settings] is set, it is required to log in as a system manager in accordance with instructions of the user administrator.

4. Select [Settings/Registration] > [Preferences] > [Network] > [Confirm Network Connection Setting Changes], and set the item [ON].
5. Select [Settings/Registration] > [Preferences] > [Network] > [Bluetooth Settings] > [Use Bluetooth] > [ON].
6. The message "Perform Apply Setting Changes from Settings/Registration" appears at the bottom of the Touch Panel Display.
7. Press [Settings/Registration] > [Apply Setting Changes] > [Yes].

NFC Kit-C1

Points to Note at Installation

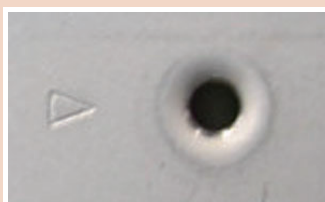
CAUTION:

Do not touch the sensor and PCB components of the Control Panel.

CAUTION:

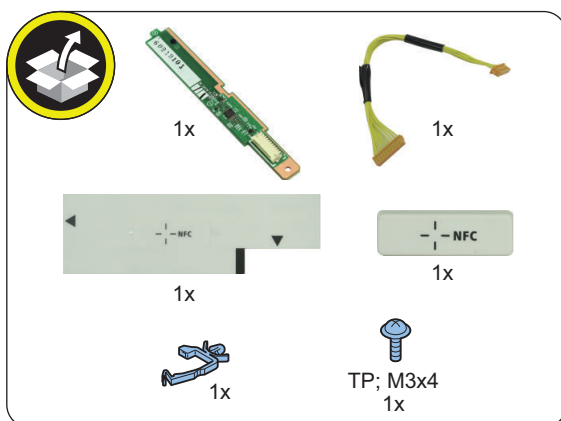
Marked portion

When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.


NOTE:

- The parts removed in "Removing the Control Panel" will be used in "Installing the Control Panel".
- Although pictures or illustrations used for explanation may differ from the actual things, the procedure is the same.

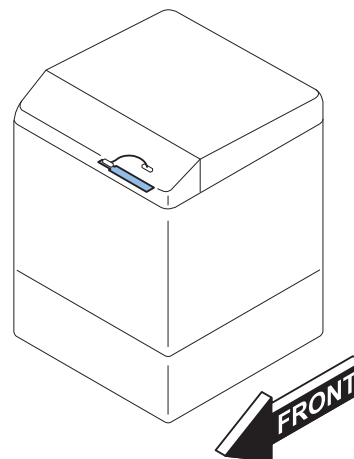
Checking the Contents



<Others>

- Guides are included

Installation Outline Drawing



Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

WARNING:

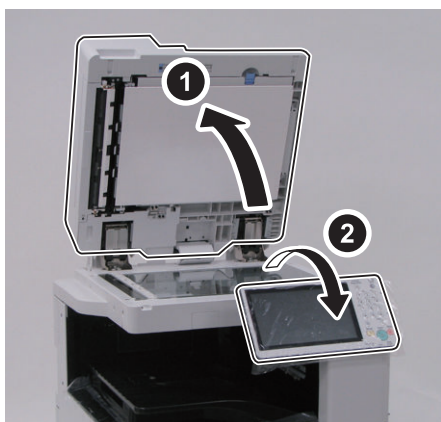
- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

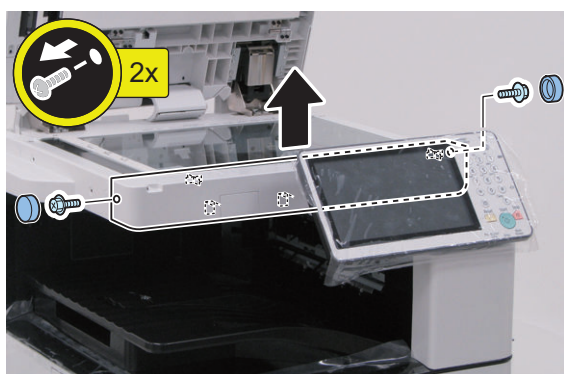
● Installation procedure

■ Remove the Control Panel

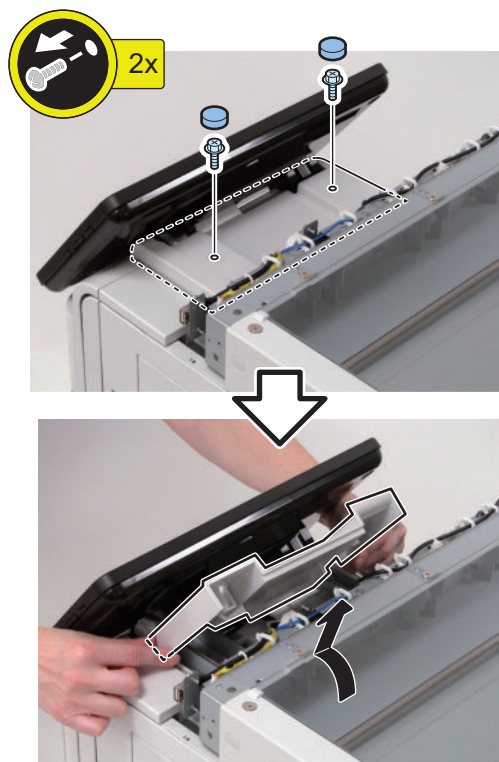
□ 1



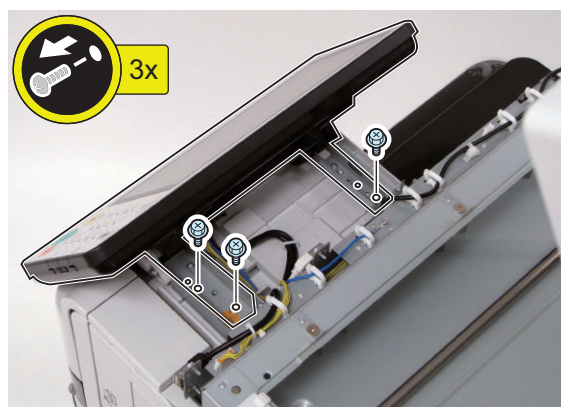
□ 2



□ 3



□ 4



□ 5

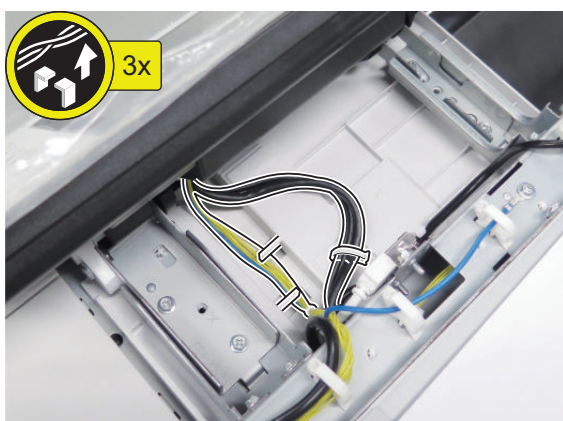
CAUTION:

Be sure to place 5 or more sheets of paper to prevent damage.

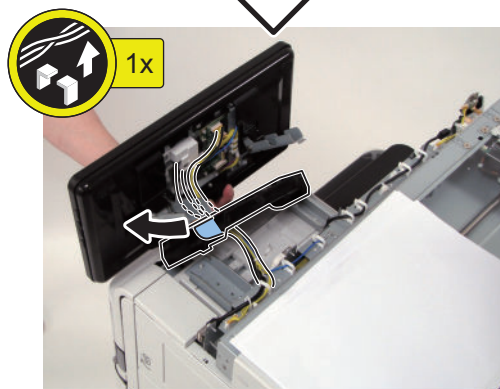
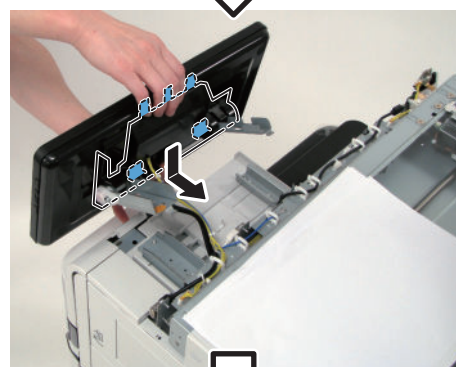
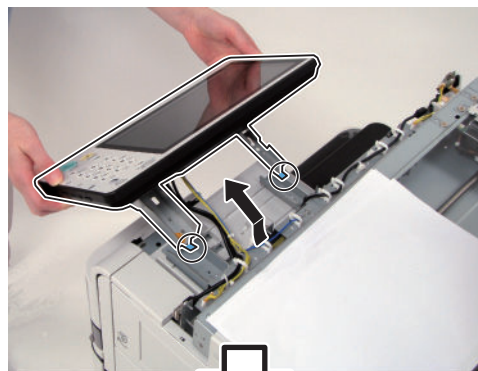
After completing the work, remove papers.



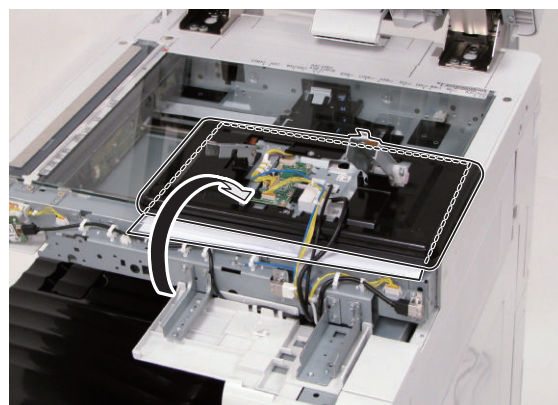
□ 6



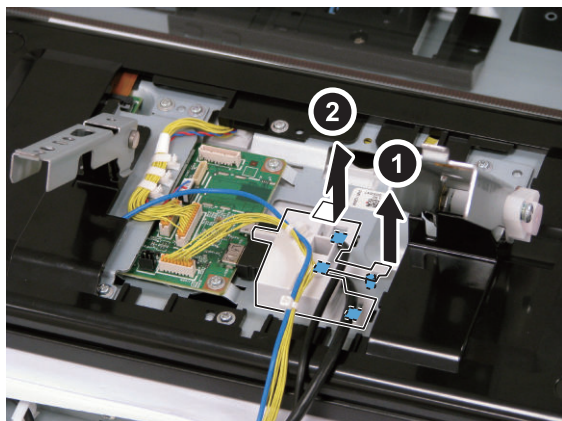
□ 7



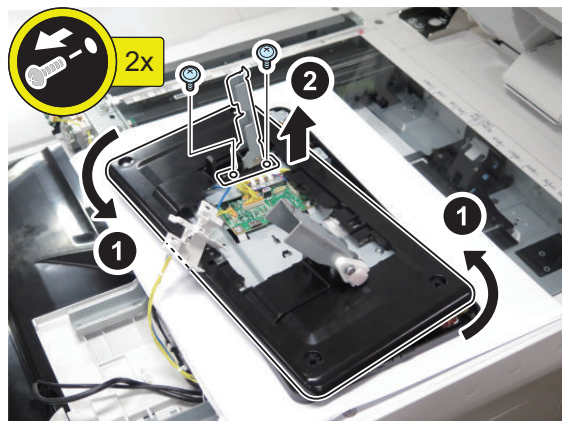
□ 8



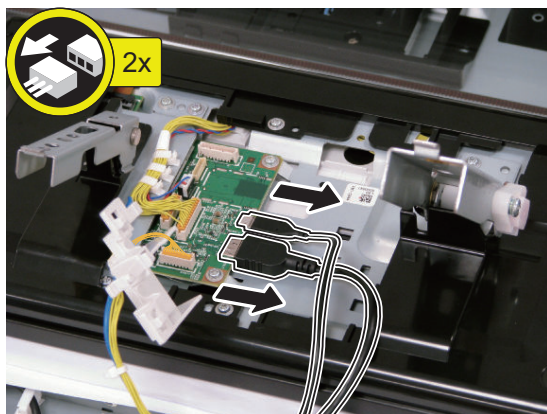
□ 9



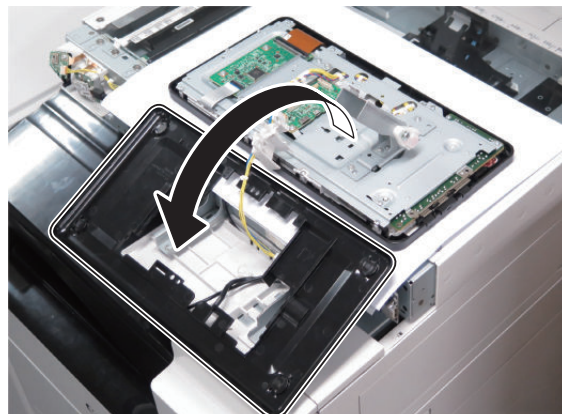
□ 12



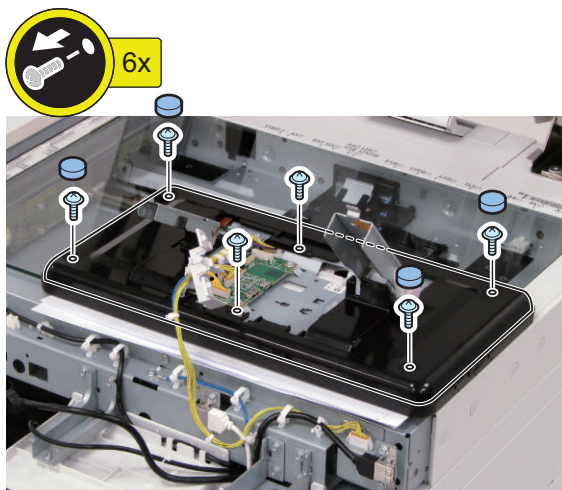
□ 10



□ 13

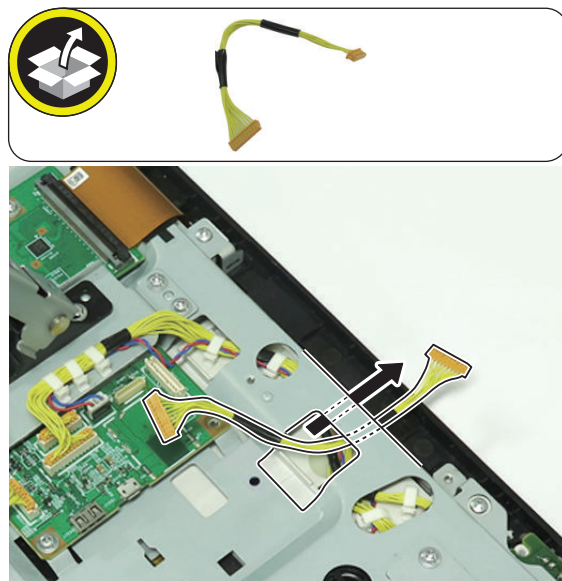


□ 11

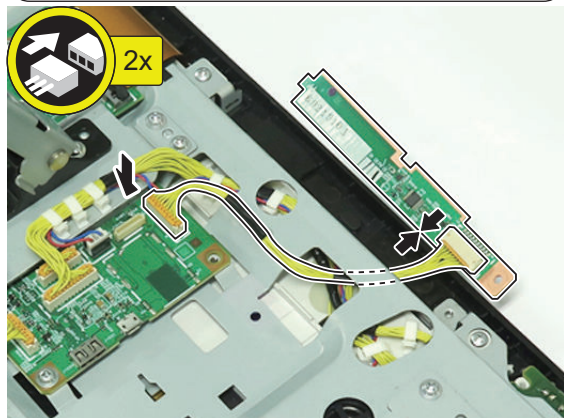
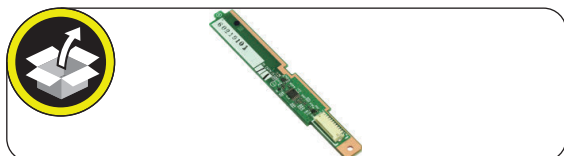


■ Installing the NFC Kit

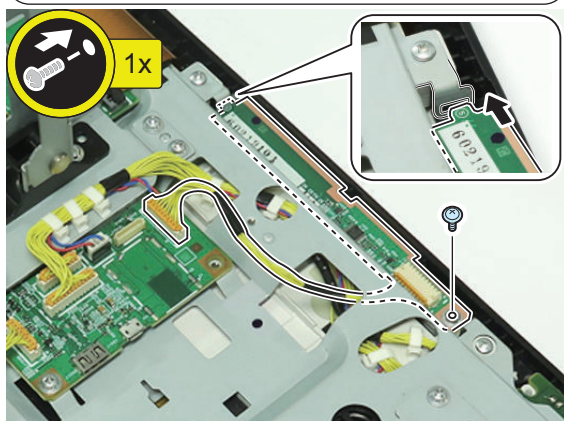
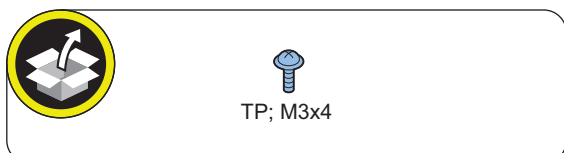
□ 1



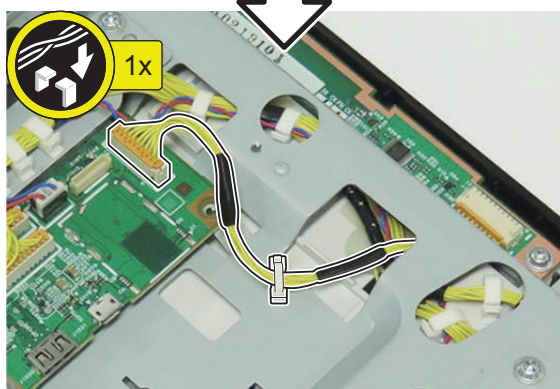
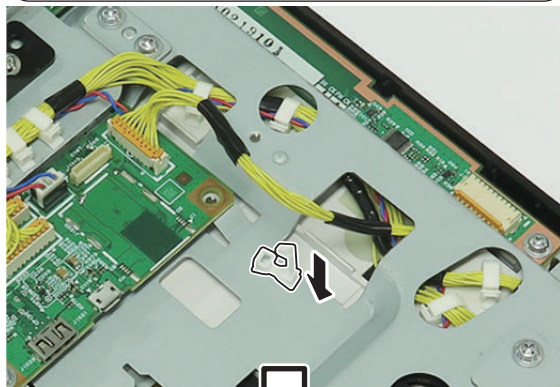
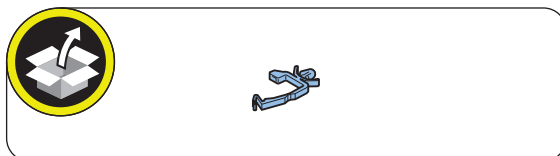
□ 2



□ 3

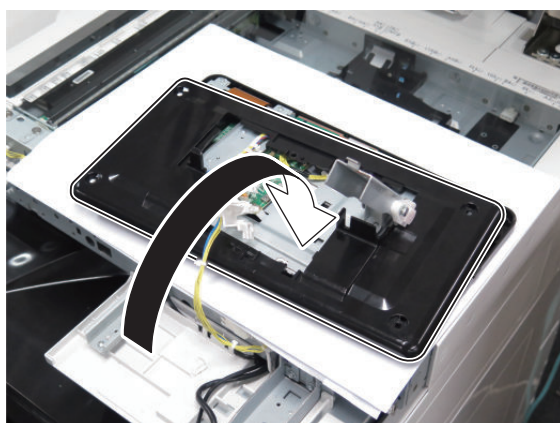


□ 4

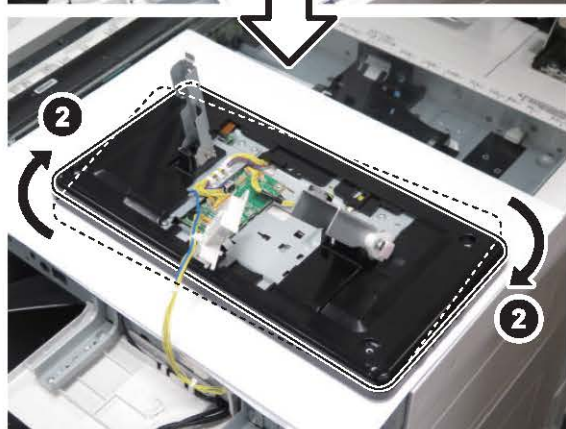
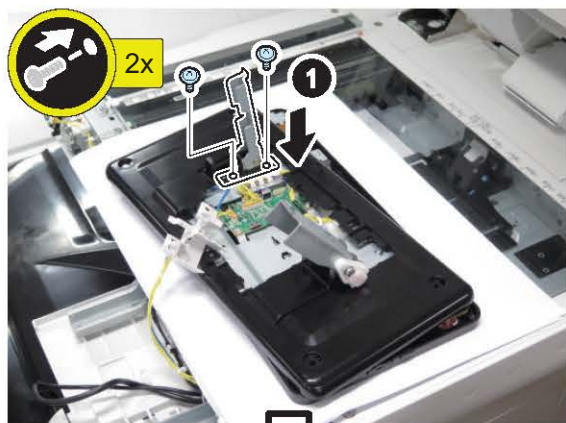


■ Installing the Control Panel

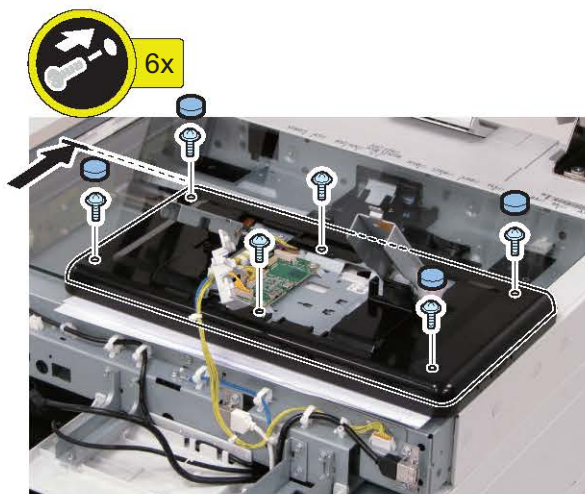
□ 1



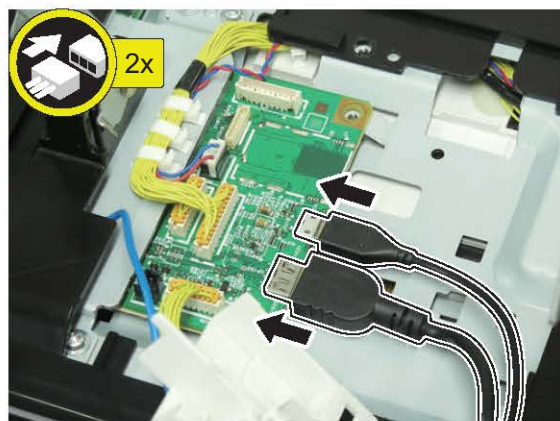
□ 2



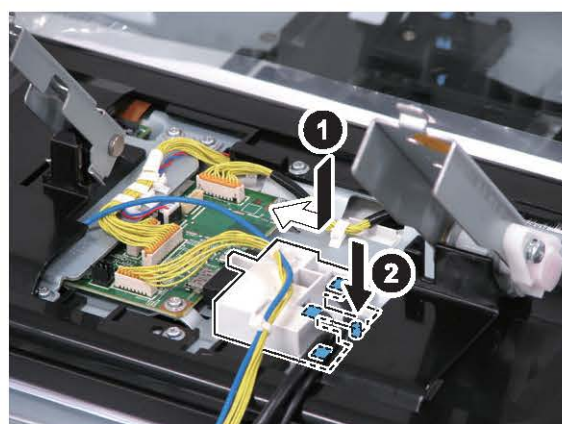
□ 3



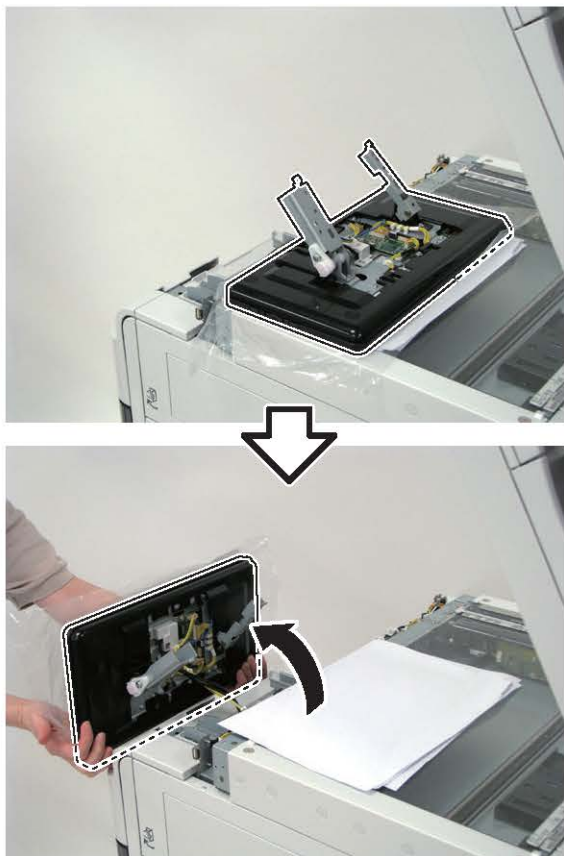
□ 4



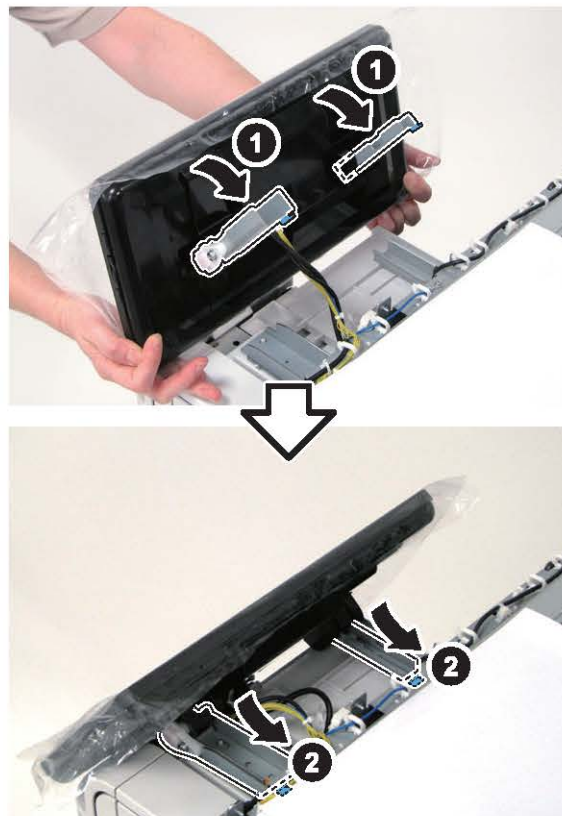
□ 5



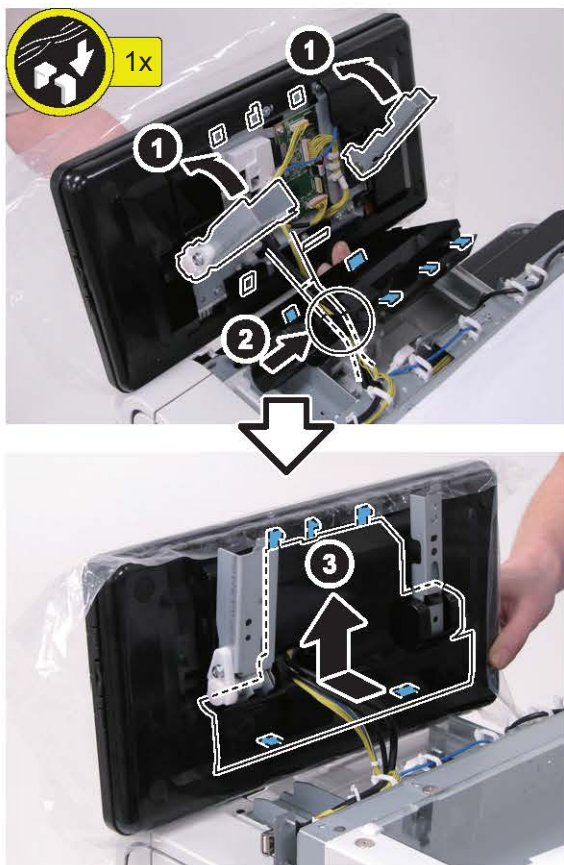
□ 6



□ 8



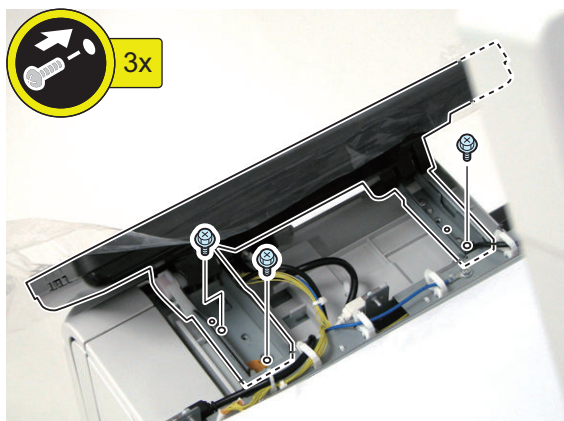
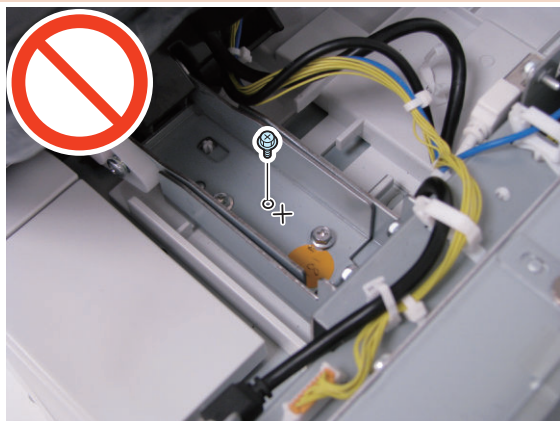
□ 7



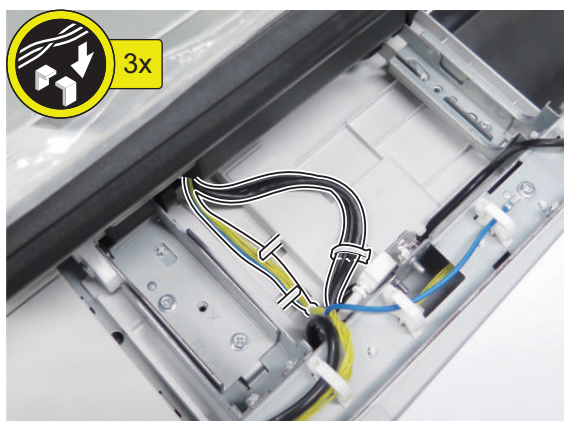
□ 9

CAUTION:

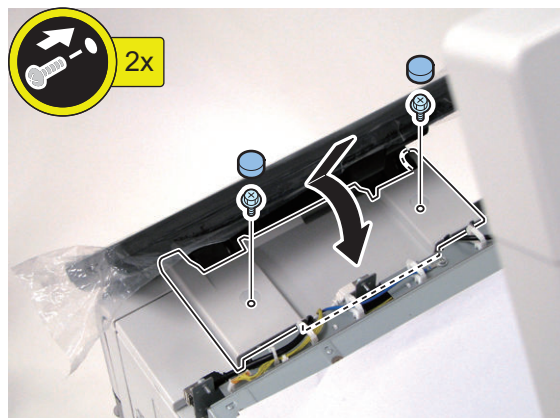
Do not install the screws to the locations with X marks. Tighten screws during the installation of cover in step 11.



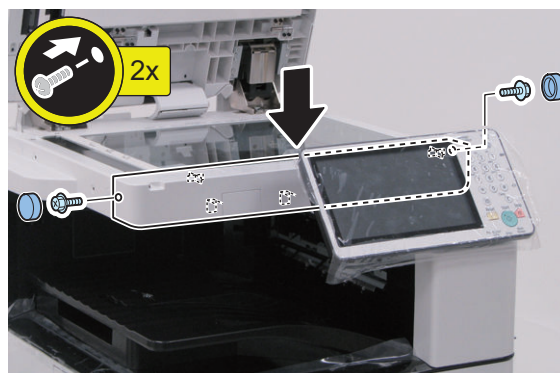
□ 10



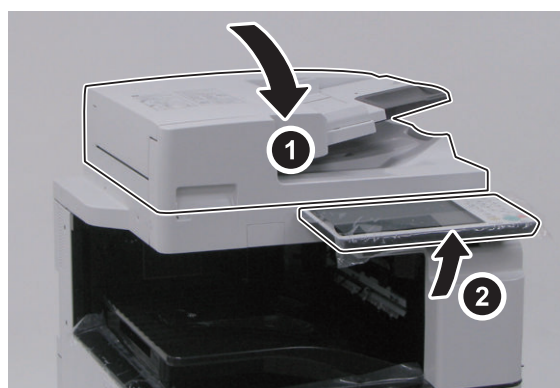
□ 11



□ 12

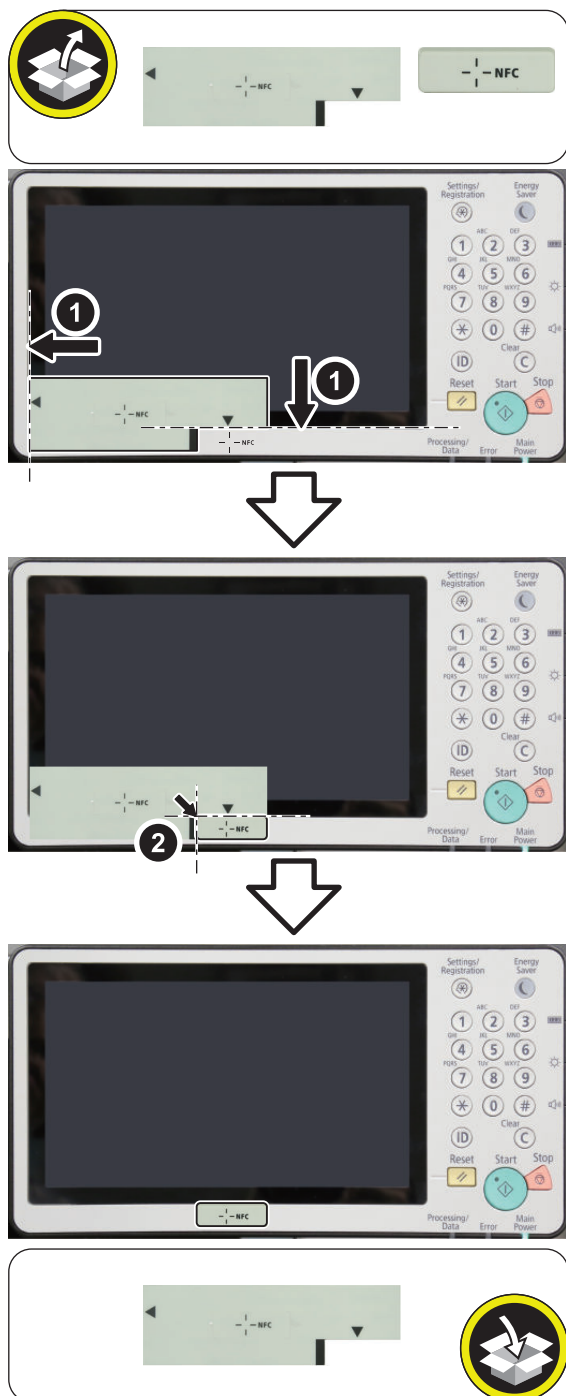


□ 13



■ Affixing the NFC Target

□ 1



3. Enter service mode and set the value to "1".
COPIER > FUNCTION > INSTALL > NFC-USE

NOTE:

When [System Manager Information Settings] is set, it is required to log in as a system manager in accordance with instructions of the user administrator.

4. Select [Settings/Registration] > [Management Settings] > [Device Management] > [Use NFC Card Emulation], and set the item to "ON".
5. Turn OFF and then ON the main power switch.
6. When a message prompting the version update is displayed, press [Update] and automatically update the version of this equipment.

CAUTION:

It may take time to display the update screen. (Approx. 1 to 2 min.) During this time, do not operate the screen.

7. Check the end of the following service mode.

COPIER > DISPLAY > VERSION > PANEL

- If the end is an even number (e.g. 01.26): NFC is not installed.
- If the end is an odd number (e.g. 01.27): NFC is installed.

● Setting after Installation

□

1. Connect the power plug of the host machine to the outlet.
2. Turn ON the main power switch.

Stamp Unit-B1

Points to Note at Installation

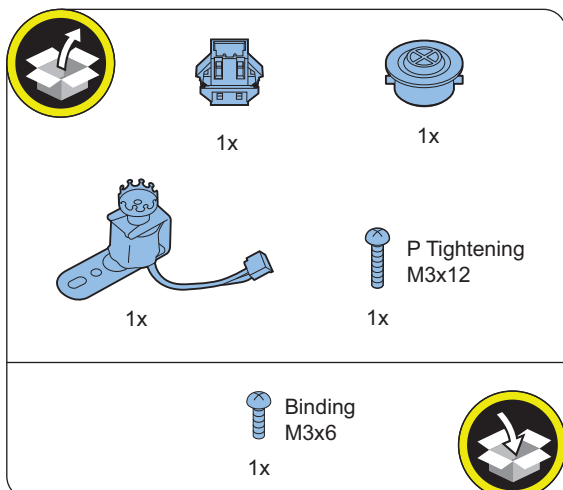
CAUTION:

Marked portion

When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.



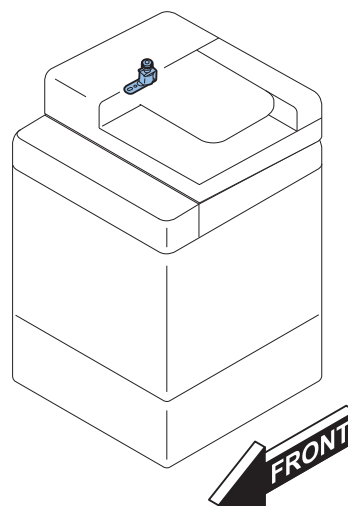
Checking the Contents



<Others>

- Including guides

Installation Outline Drawing



Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:

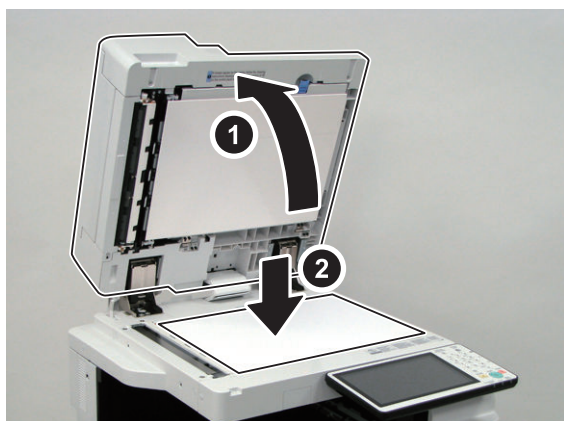
- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
 - If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.
- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Procedure

□
1.

CAUTION:

Be sure to place paper in order to prevent the Copy Board Glass from being damaged when the cover of the document reading area is opened.



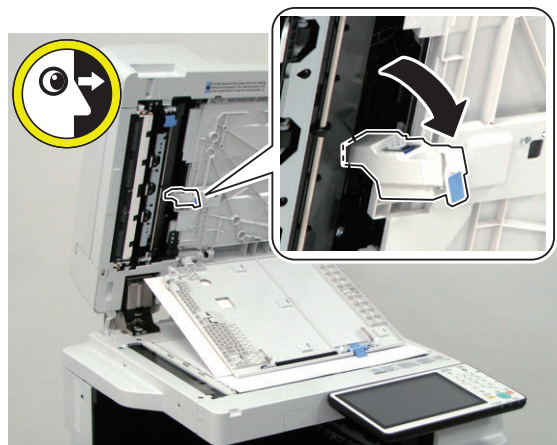
□
2.



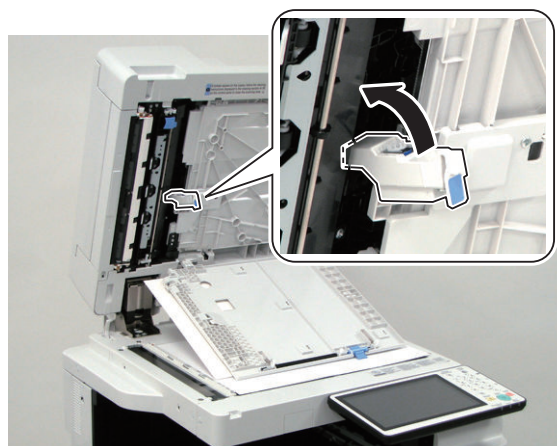
□
3.

NOTE:

Check whether the Stamp Solenoid is attached.
If it is attached, proceed to step 11.
If it is not attached, proceed to the next step.



□
4.



5.



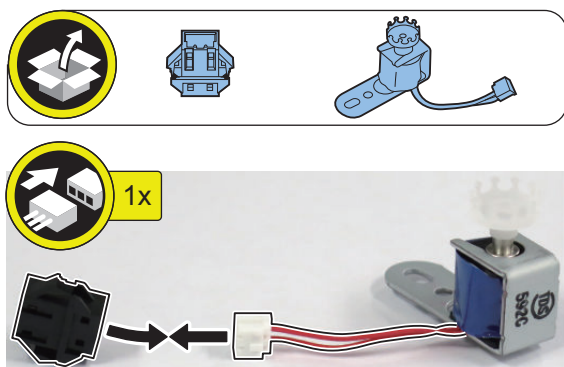
CAUTION:

The removed screw will be used in step 8.

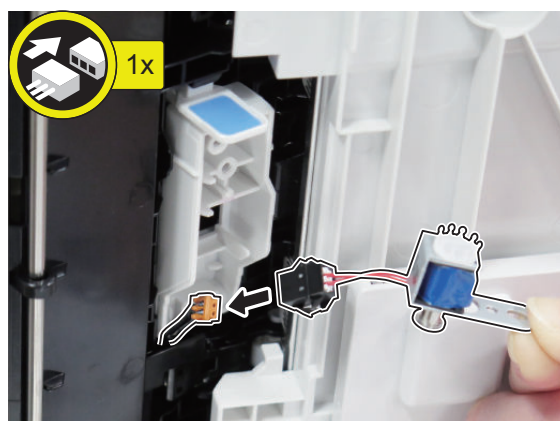
NOTE:

The removed Stamp Cover will be used in step 9.

6.



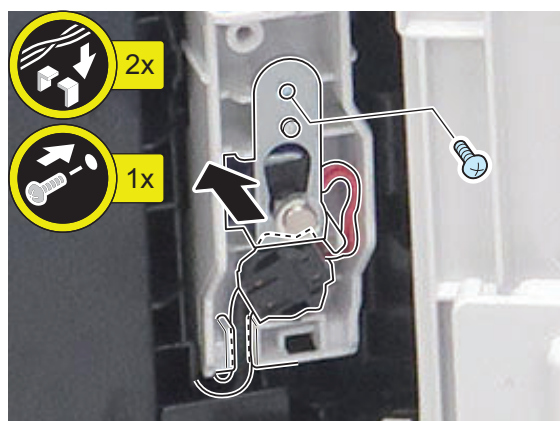
7.



8.

CAUTION:

- Use the screw removed in step 5.
- Be sure to store the harness in the guide so as not to trap the harness in the next step.

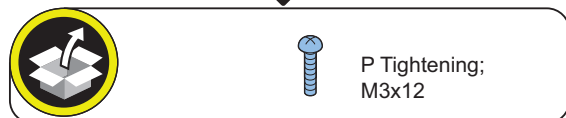
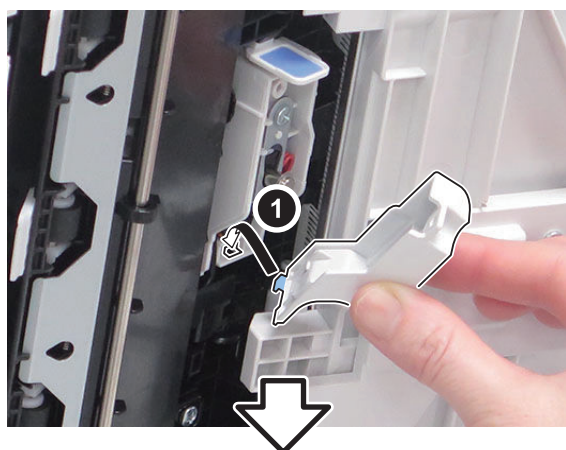



9.

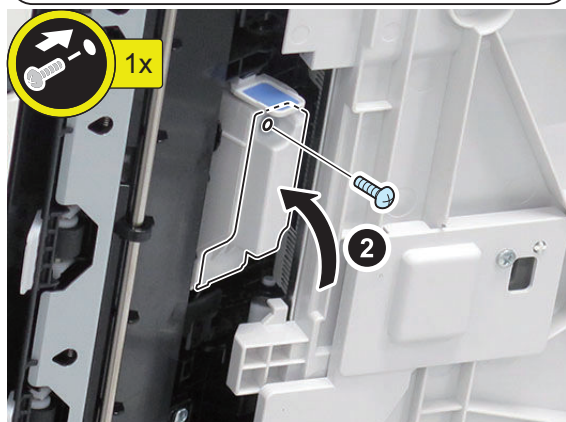
NOTE:
Use the Stamp Cover removed in step 5.

CAUTION:

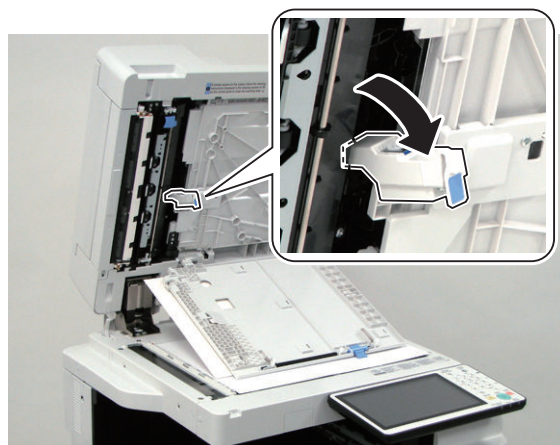
- Be sure to use the screw included in the package.
- Be careful not to trap the cables.



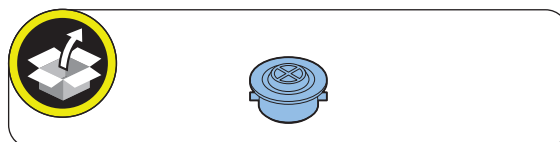
 P Tightening;
M3x12



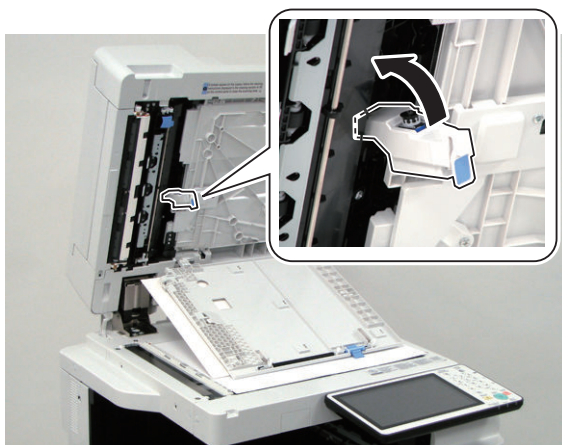
10.



11.



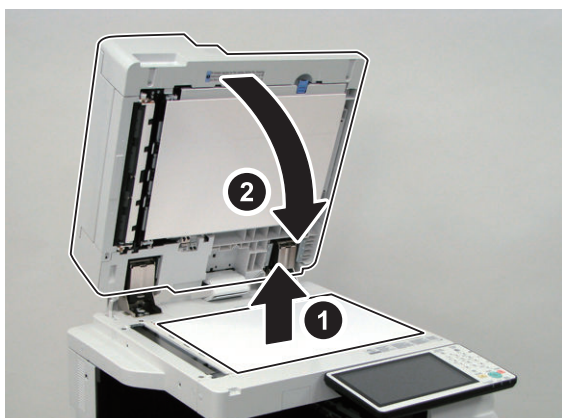
12.



13.



14.



15.

Connect the power plug to the outlet.

16.

Turn ON the main power switch.

Operation Check

1. Press [Scan and Send] on the Touch Panel Display.
2. Specify the destination, and press [Options] > [Finished Stamp].
3. Press [Close].
4. Check that a stamp is printed on the original scanned by the Feeder.

HDD-related Option

Pre-checks

Points to Note at Installation

CAUTION:

- For TYPE2 to TYPE7, be sure to perform the procedure of each TYPE after performing “Removing the HDD (Preparation)” on page 1468.
- When using the mirroring function, be sure to install 2 HDDs of the same capacity.
- The HDD needs to be initialized after replacing the large capacity HDD.
- When replacing a HDD that contains user information with a high-capacity HDD (which is not an initial installation), backup and export of HDD data are necessary. For details, refer to in the Service Manual.

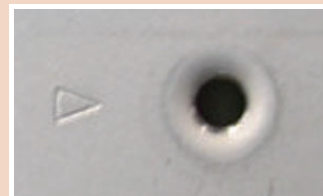
When installing the HDD-related options (the following 4 products), be sure to refer to the pages described in the following table:

- 2.5inch/250GB HDD-N1
- 2.5inch/1TB HDD-P1
- Removable HDD Kit-AL1
- HDD Mirroring Kit-J1

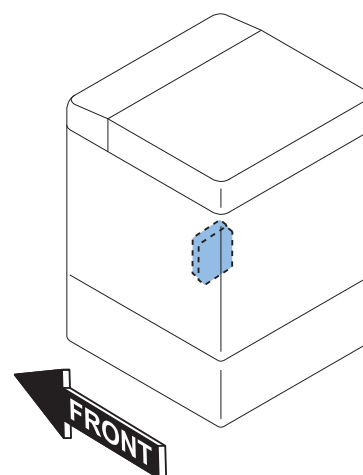
Title	Combination of Product
TYPE-1	“[TYPE-1] Option HDD (1TB)” on page 1470
TYPE-2	“Removing the HDD (Preparation)” on page 1468 + “[TYPE-2] Removable HDD Kit” on page 1473
TYPE-3	“Removing the HDD (Preparation)” on page 1468 + “[TYPE-3] Option HDD (1TB) + Removable HDD Kit” on page 1479
TYPE-4	“Removing the HDD (Preparation)” on page 1468 + “[TYPE-4] Standard HDD + Option HDD (250GB) + HDD Mirroring Kit” on page 1487
TYPE-5	“Removing the HDD (Preparation)” on page 1468 + “[TYPE-5] Standard HDD + Option HDD (250GB) + Removable HDD Kit + HDD Mirroring Kit” on page 1495
TYPE-6	“Removing the HDD (Preparation)” on page 1468 + “[TYPE-6] 2 Option HDDs (1TB) + HDD Mirroring Kit” on page 1505
TYPE-7	“Removing the HDD (Preparation)” on page 1468 + “[TYPE-7] 2 Option HDDs (1TB) + Removable HDD Kit + HDD Mirroring Kit” on page 1514

CAUTION:

Marked portion
When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.



Installation Outline Drawing



Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

WARNING:

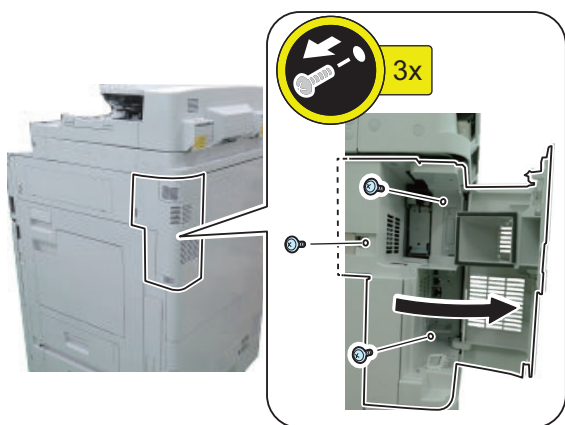
- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
 - If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.
- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

● Removing the HDD (Preparation)

CAUTION:

[TYPE-1] For Option HDD (1TB), skip this procedure. For other TYPEs, be sure to proceed to each installation procedure after performing this procedure. Removed screws will be reused in the installation procedure of each TYPE.

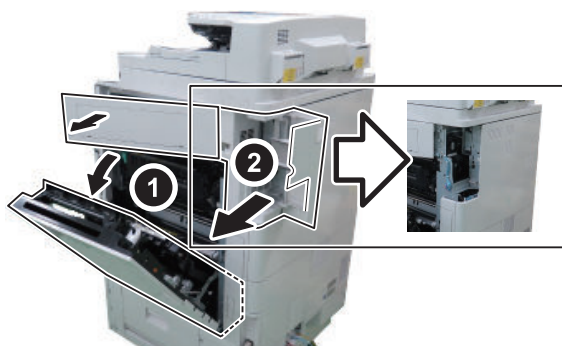
□
1.



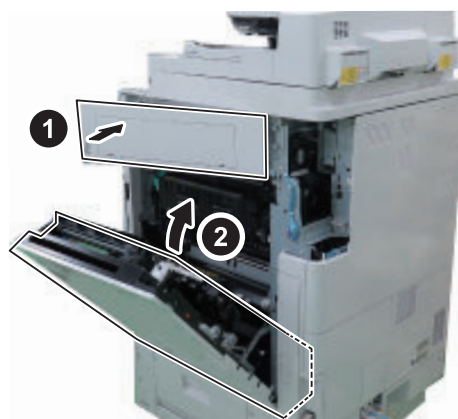
□
2.

NOTE:

The Right Upper Cover will open at the same time.



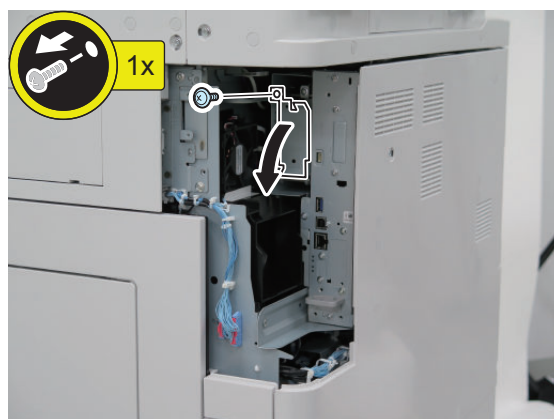
□
3.



□
4.

NOTE:

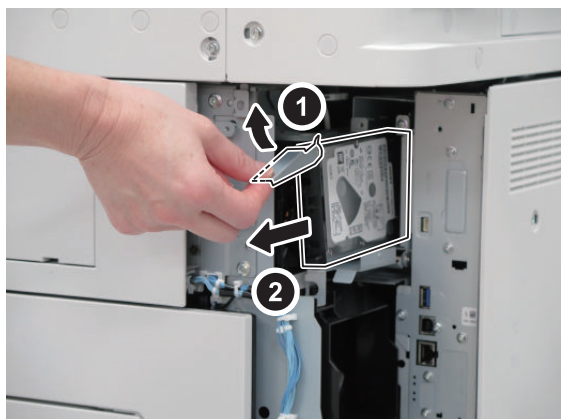
The removed screw will not be used to install the Removable HDD Kit.



□
5.

NOTE:

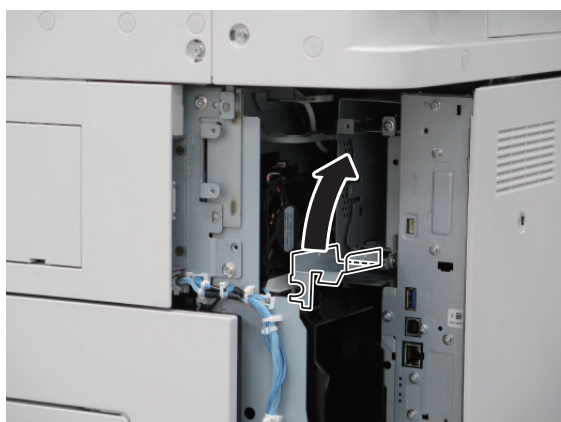
When replacing the HDD with an Option HDD (1TB), the removed HDD will not be used.



□
6.

NOTE:

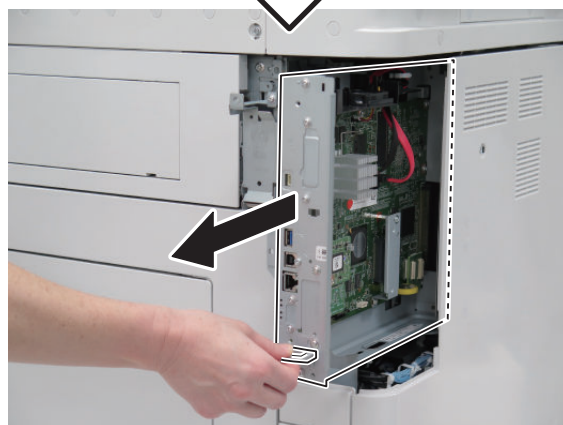
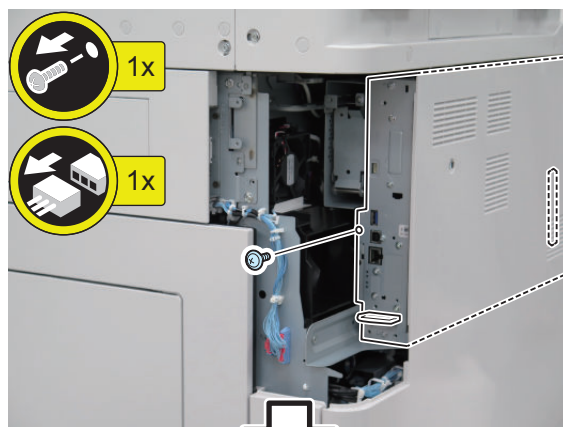
Do not tighten the screw here.



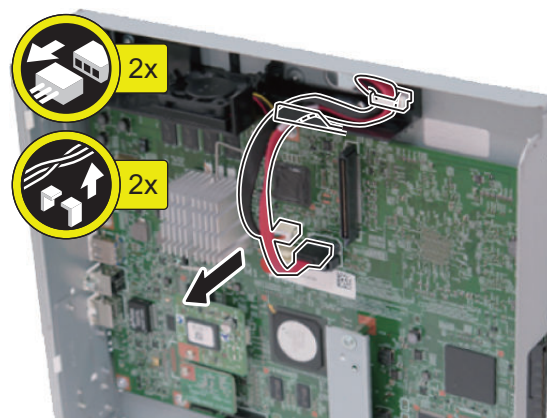
□
7.

NOTE:

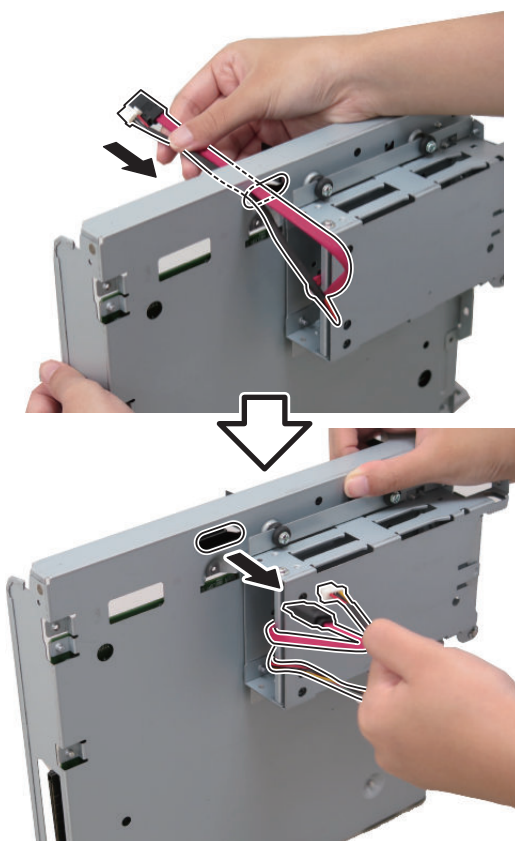
Hold the handle to remove the Main Controller PCB 1.



□
8.



9.



■ Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

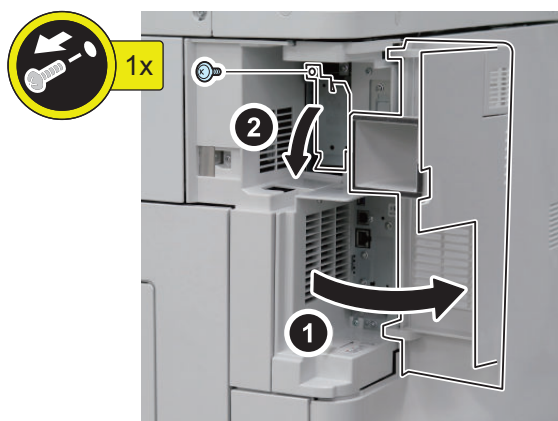
⚠ WARNING:

- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

■ Installation Procedure

1.



● [TYPE-1] Option HDD (1TB)

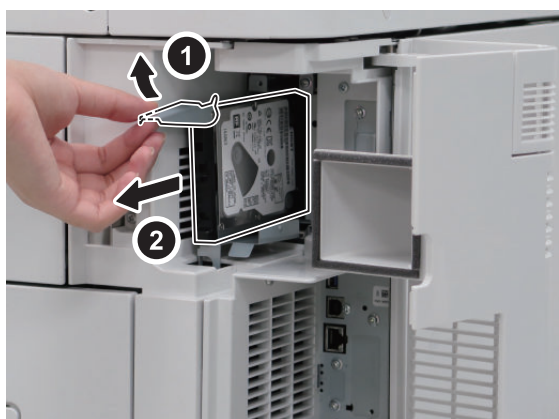
■ Checking the Contents



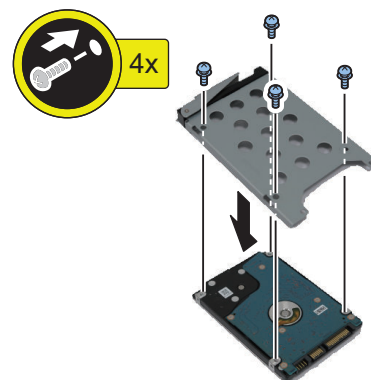
NOTE:

The removed screw will be used in step 6.

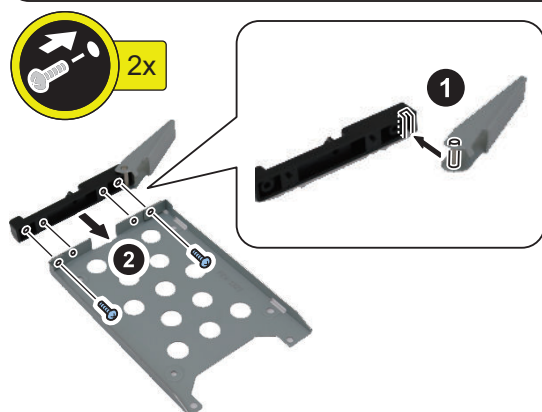
□
2.



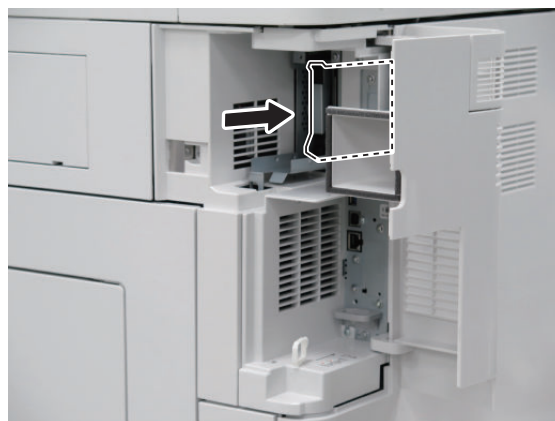
□
4.



□
3.



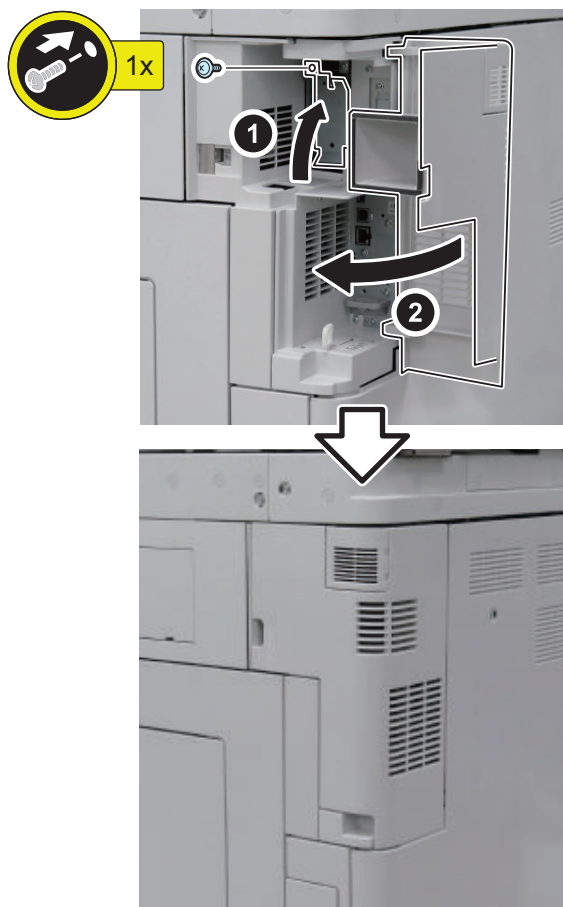
□
5.



6.

NOTE:

Use the screw removed in step 1.



■ HDD Initialization Procedure

1. Requirements

1. PC
Service Support Tool in the version that supports this host machine must be installed.
2. Cross Ethernet Cable (when SST is used)

2. Preparing for the Installation of the System Software of Host machine

1. If both PC and the machine are on, turn them off.
2. Connect the PC and the host machine using an Cross Ethernet cable. (when SST is used)
3. Turn on the PC.

3. Registering the system software

1. Insert the latest System Software into the PC using the SST.
2. Start the SST.
3. Click 'Register Firmware'.
4. Select the drive where the system software has been inserted, and click the [SEARCH] button.
5. Click the [REGISTER] button.
6. Click [OK].

4. Initializing HDD

<In case of SST>

1. Start the host machine with download mode in safe mode.
2. Start the SST.
3. Select the model. Then, select [Single] and click [Start].
4. Click [Format HDD].
5. Select [All], and click [Start].
6. Click [Execute Format].
7. The Format is executed.
8. Select [Shutdown/Restart], and click [Shutdown].
9. Click [OK]
10. The power of the host machine is turned OFF.
11. Terminate the SST.
12. Disconnect the Cross Ethernet Cable from the machine, and connect the user's network cable to the machine.

<In case of USB flash drive>

1. Connect the USB flash drive to the PC.
2. Start up SST, and click the USB icon displayed in the target selection screen.
3. Select the drive, the model series, and the version to be written to the USB flash drive, and click [Confirm].
4. Click [Start], and after the version has been written to the USB flash drive, click [OK] and then remove the USB flash drive.
5. Terminate the SST.
6. Connect the USB flash drive to the host machine, and start the host machine with download mode in safe mode.
7. When the USB menu is displayed, press keys on the Control Panel in the order shown below.
 - [4]: Clear/Format
 - [1]: Disk Format
 - [0]: OK
 - Press any keys.
 - [C]: Return to menu
 - [Reset] : Start shutdown sequence
 - [0]: OK (The power of the host machine is turned OFF automatically.)
8. Remove the USB flash drive.
9. Turn ON the main power switch.

■ Executing Auto Gradation Adjustment

When the high-capacity HDD is installed, the machine initializes its HDD, resetting the data used for auto gradation correction.

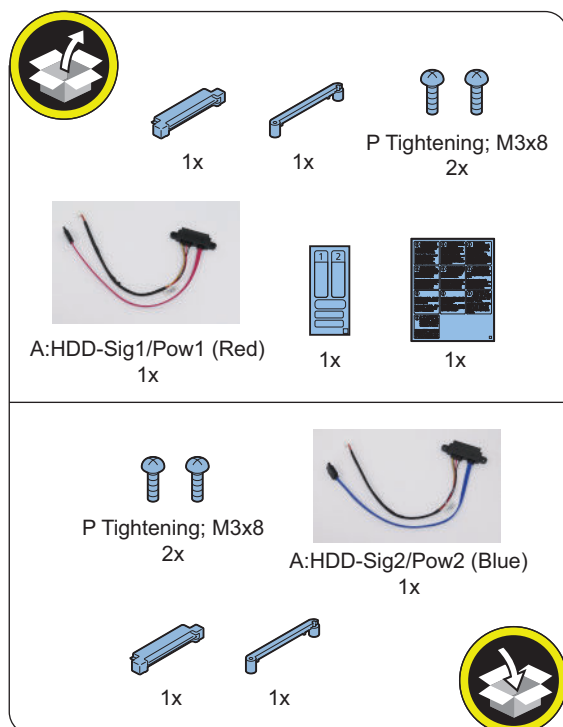
Therefore, execute full adjustment of auto gradation adjustment after installing the high-capacity HDD to enable proper images to be output.

■ Execution of the Minimum Installation Work

Be sure to execute the minimum installation work in accordance with the Setup Guide because HDD is initialized when the high-capacity HDD is installed.

[TYPE-2] Removable HDD Kit

■ Checking the Contents



■ Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

WARNING:

- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

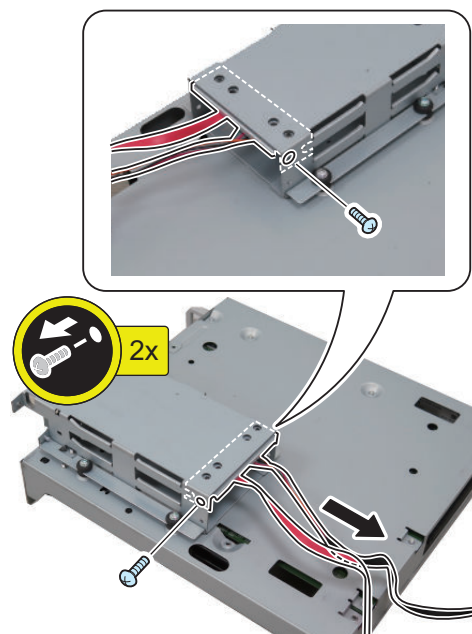
■ Installation Procedure

CAUTION:

Be sure to perform "[Removing the HDD \(Preparation\)](#)" on page 1468 before performing the following work.

• Installing the Removable HDD Kit

□
1.

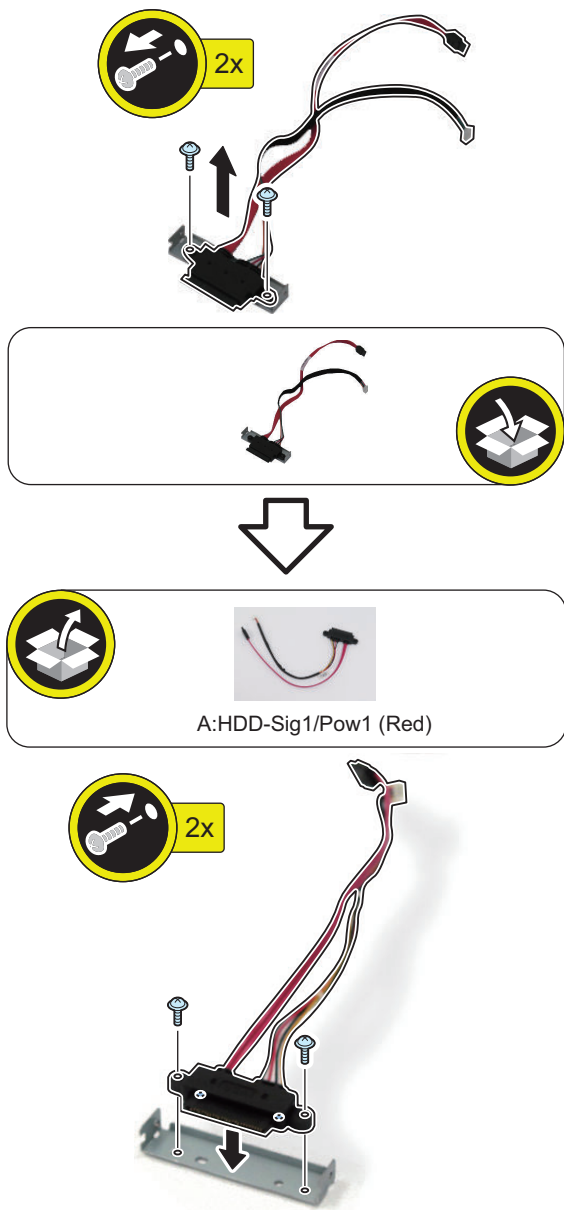


NOTE:

The removed screws will be used in step 3.

□
2.

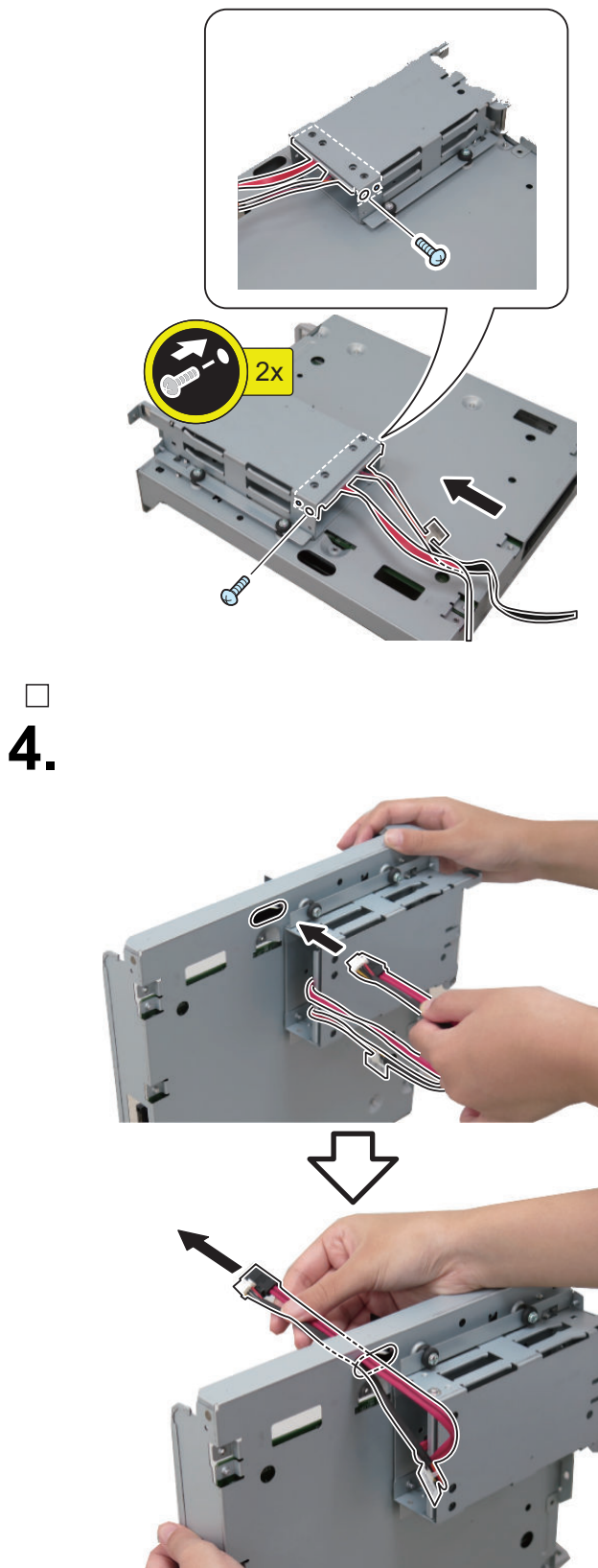
NOTE:
Remove the HDD Cable from the HDD Connector Support Plate, and replace it with the A: HDD-Sig1/Pow1 (Red).
(The removed cable will not be used).



□
3.

NOTE:

- Install the assembled A: HDD-Sig1/Pow1 (Red).
- Use the screws removed in step 1.

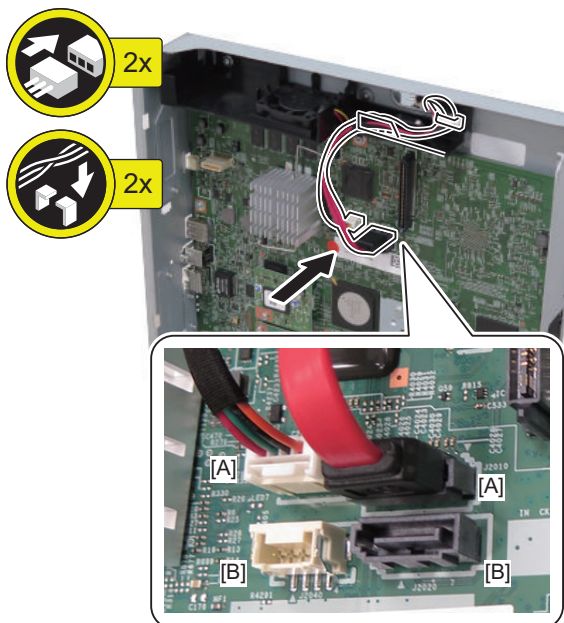


□
4.

5.

CAUTION:

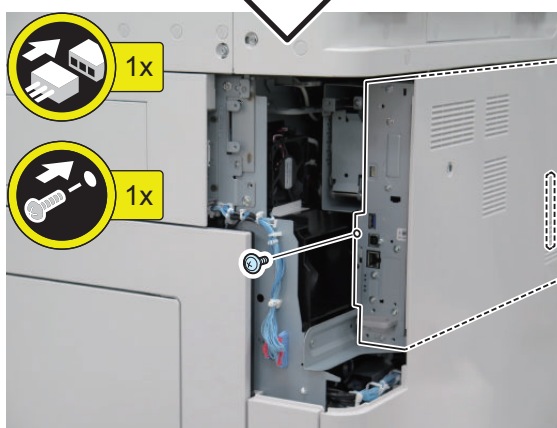
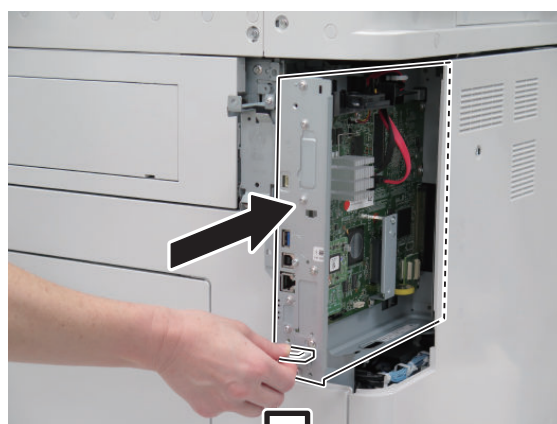
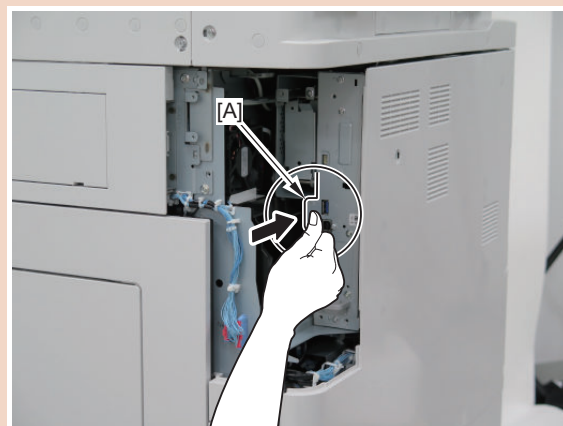
Connect the Communication Cable (Red) and Power Supply Cable to [A] of Controller PCB.
If the Communication Cable (Red) is connected to [B], the HDD error occurs.



6.

CAUTION:

- Be sure to insert the Main Controller PCB 1 until it stops.
- Be sure to push [A] part hard to install it, otherwise the connector may not be connected properly.



• Assembling and Installing the HDD

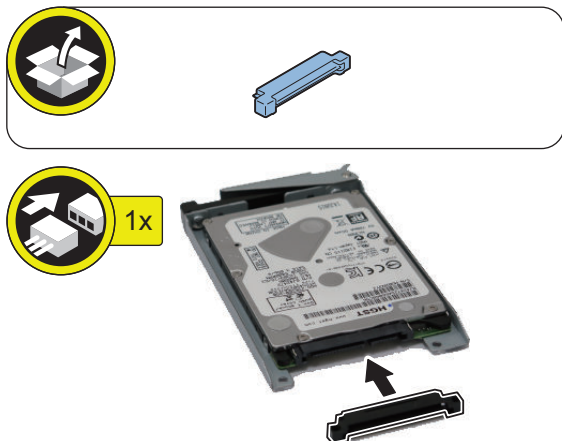
1.

NOTE:

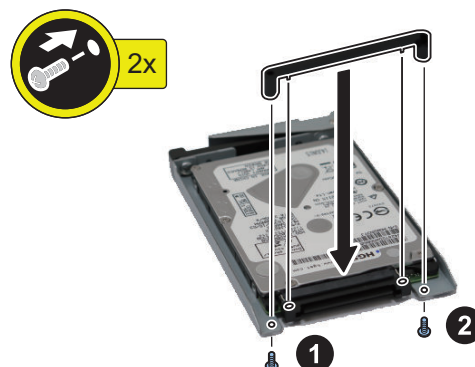
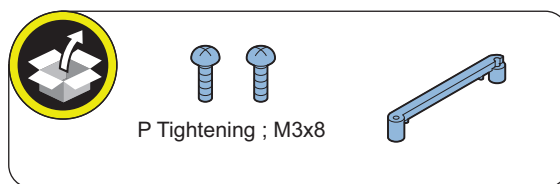
Use the HDD removed from the host machine.

CAUTION:

Be sure that there is no gap between the HDD Connector and the Conversion Connector.

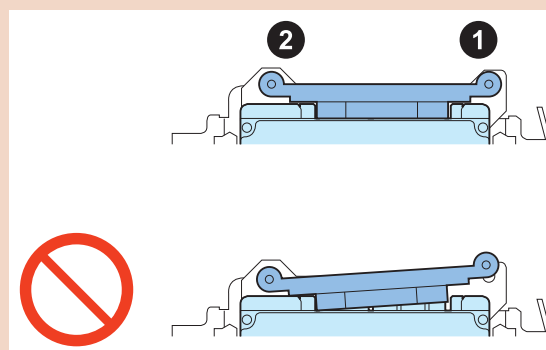


2.



CAUTION:

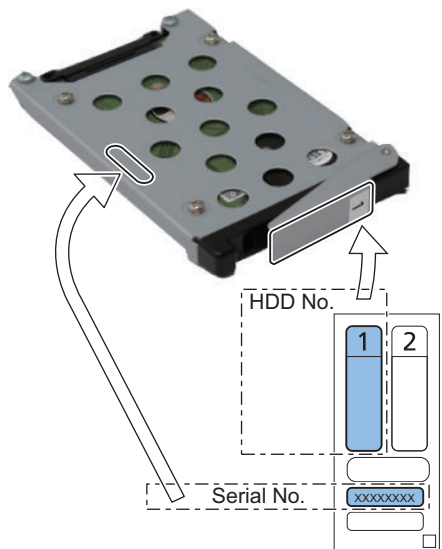
- Be sure to firmly hold the Connector Fixation Block when tightening the screws.
- Be sure to follow the correct order to tighten the screws, otherwise the Conversion Connector may not be connected properly, resulting in poor contact.



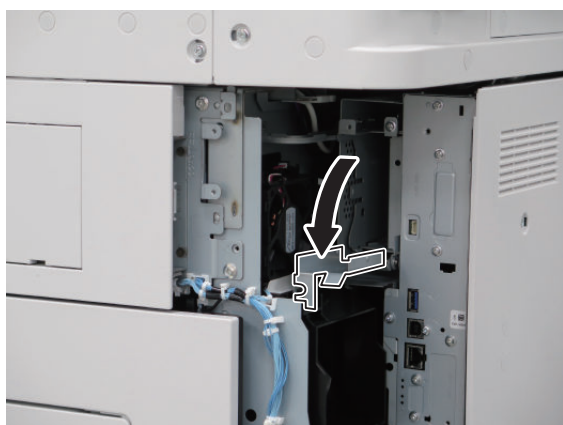
3.

NOTE:

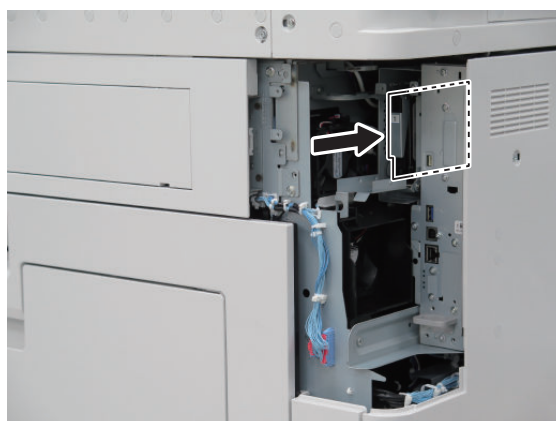
Write down the serial number of the host machine to the label for recording the number, and affix it to the area indicated in the figure.



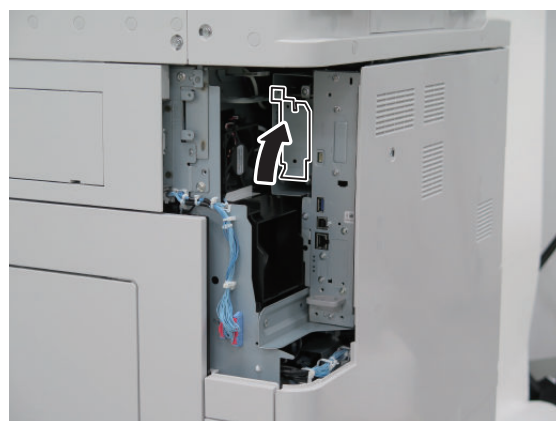
4.



5.



6.



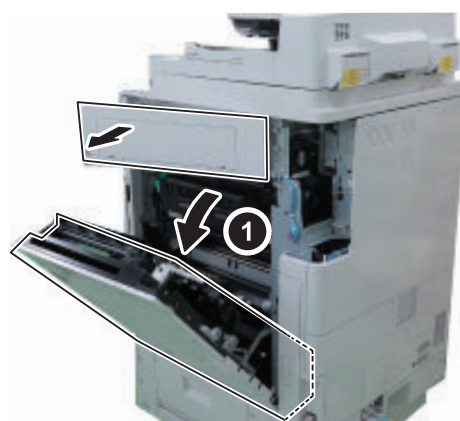
7.

Be sure to request the user to padlock the removable HDD to discourage theft.

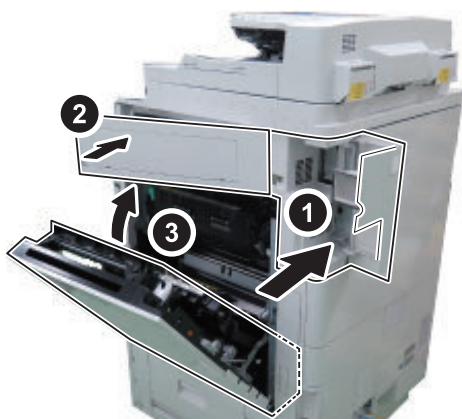
8.

NOTE:

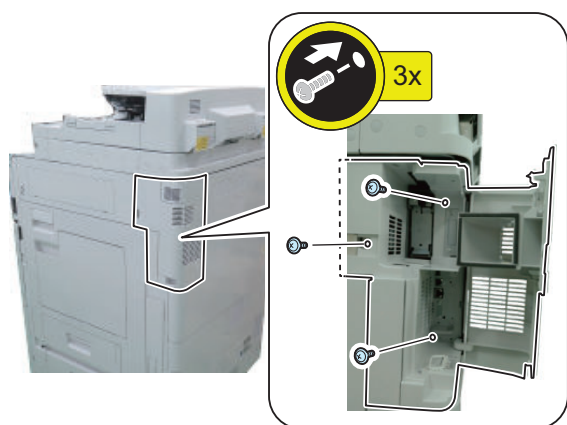
The Right Upper Cover will open at the same time.



□
9.

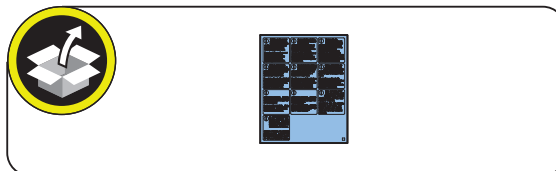


□
10.

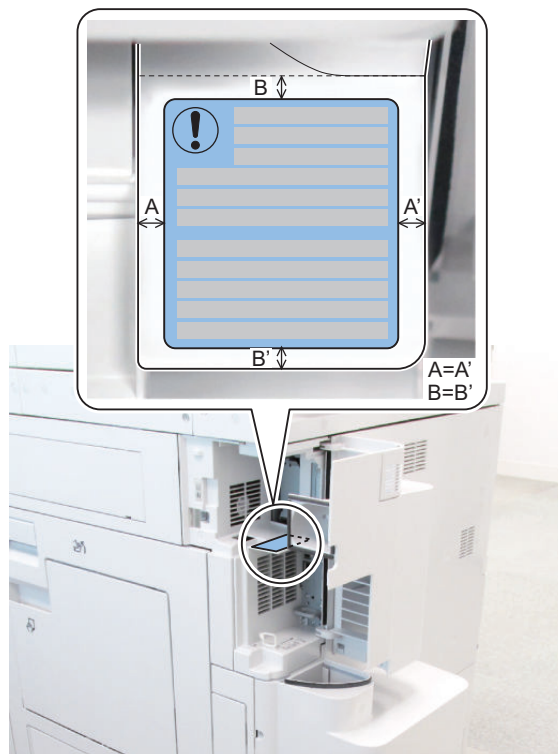
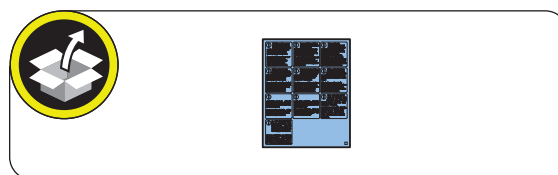


□
11.

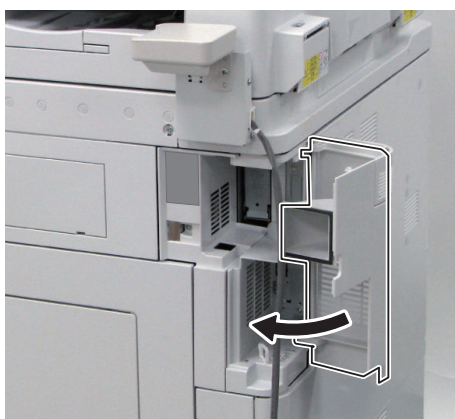
NOTE:
Affix the HDD Caution Label in the appropriate language by aligning it with the upper left corner.



< For the Duct Model (EUR only) >



12.



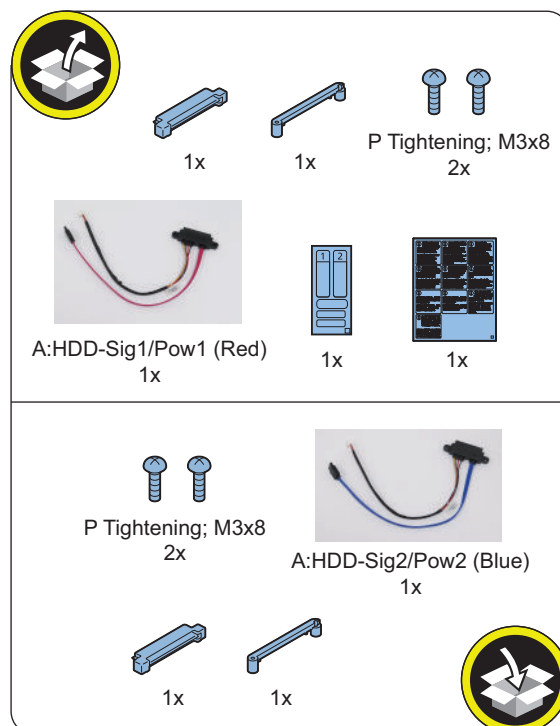
[TYPE-3] Option HDD (1TB) + Removable HDD Kit

■ Checking the Contents

<Option HDD (1TB)>



<Removable HDD Kit>



■ Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:

- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

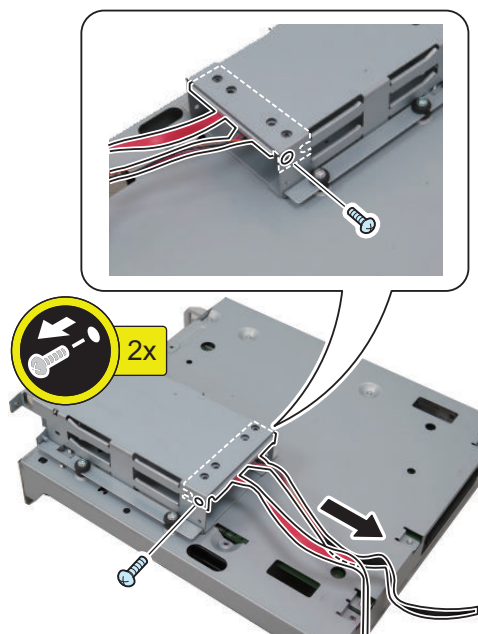
■ Installation Procedure

CAUTION:

Be sure to perform [“Removing the HDD \(Preparation\)”](#) on page 1468 before performing the following work.

• Installing the Removable HDD Kit

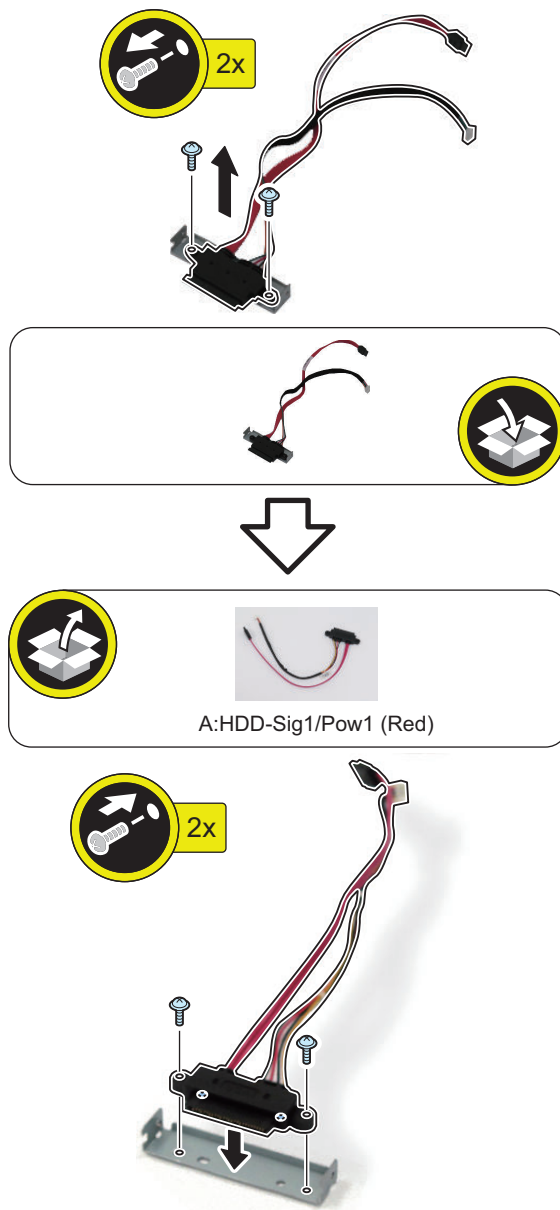
□
1.



NOTE:
The removed screws will be used in step 3.

□
2.

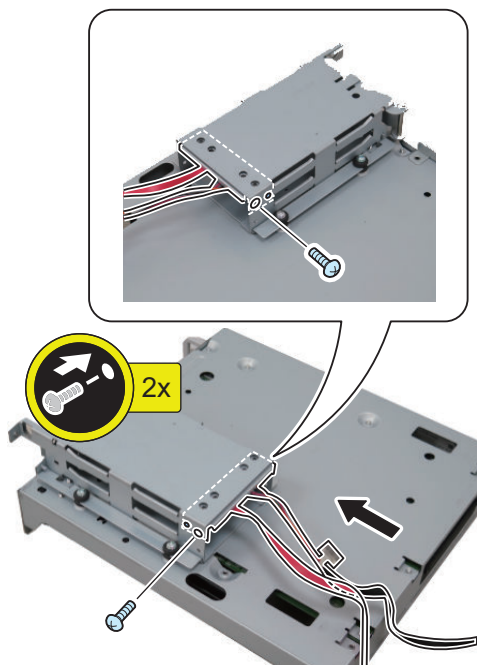
NOTE:
Remove the HDD Cable from the HDD Connector Support Plate, and replace it with the A: HDD-Sig1/Pow1 (Red)
(The removed cable will not be used).



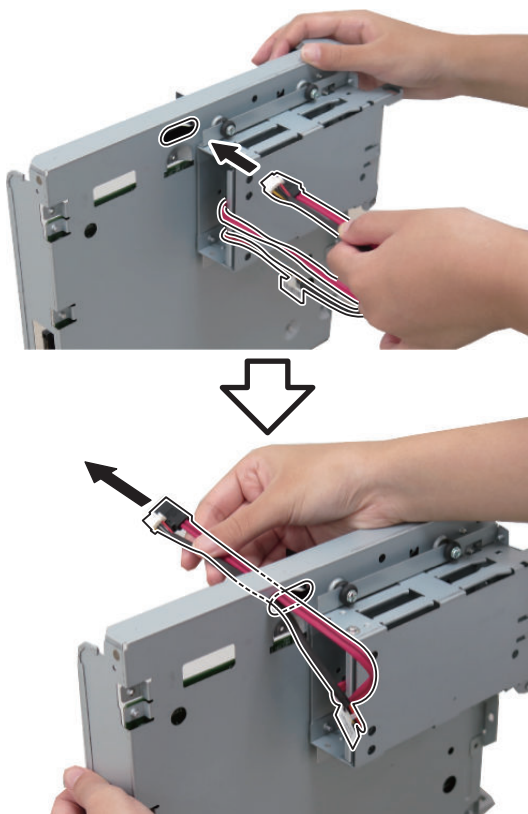
□
3.

NOTE:

- Install the assembled A: HDD-Sig1/Pow1 (Red).
- Use the screws removed in step 1.



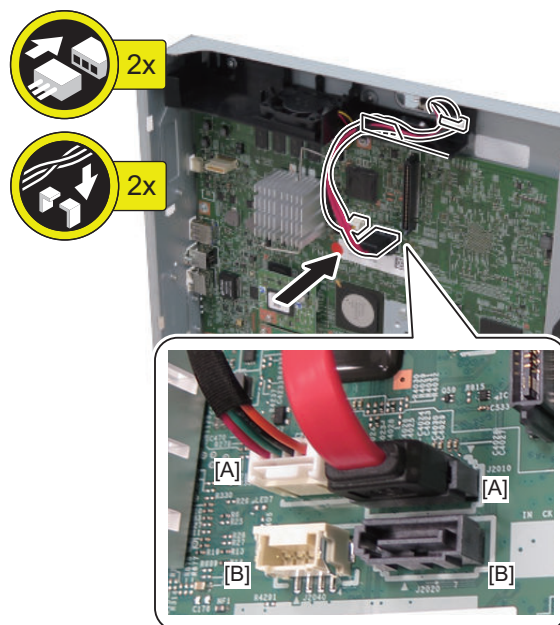
□
4.



□
5.

CAUTION:

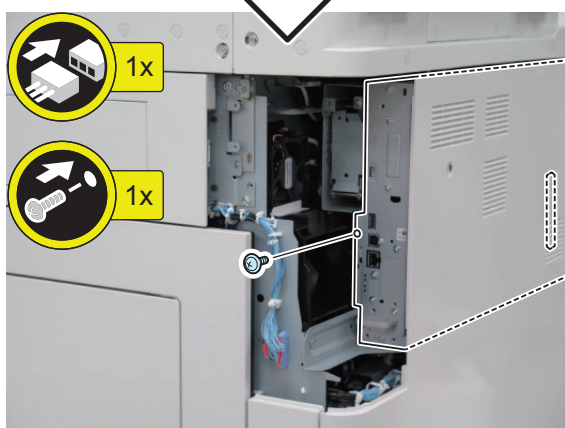
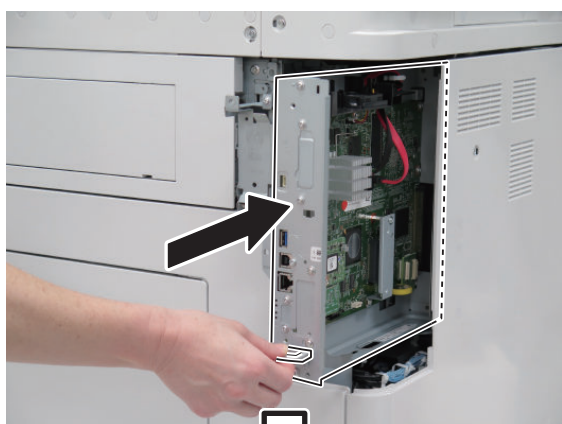
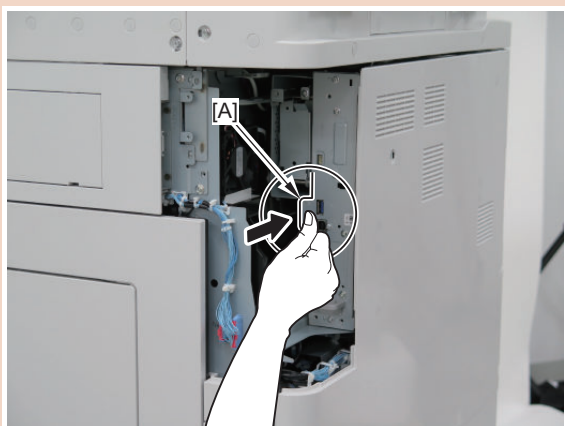
Connect the Communication Cable (Red) and Power Supply Cable to [A] of Controller PCB.
If the Communication Cable (Red) is connected to [B], the HDD error occurs.



6.

CAUTION:

- Be sure to insert the Main Controller PCB 1 until it stops.
- Be sure to push [A] part hard to install it, otherwise the connector may not be connected properly.

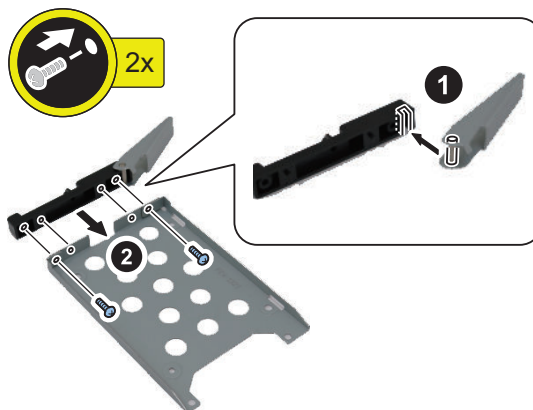


• **Assembling and Installing the Option HDD**

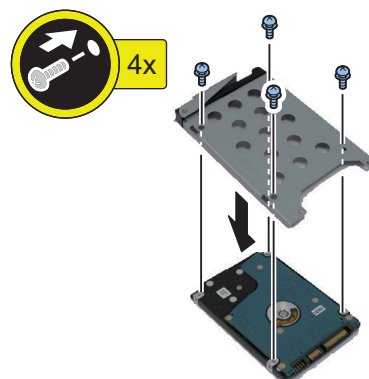
1.

NOTE:

Use the 2 screws (P Tightening; M3x8) included with the Option HDD.

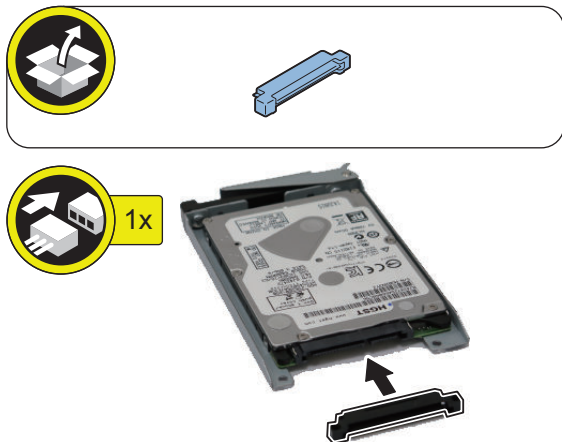


2.



□
3.

CAUTION:
Be sure that there is no gap between the HDD Connector and the Conversion Connector.



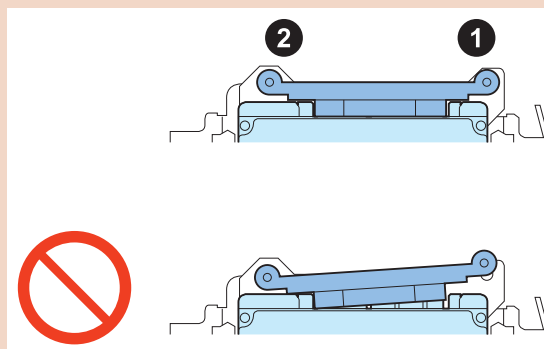
□
4.

NOTE:
Use the 2 screws (P Tightening; M3x8) included with the Removable HDD Kit.



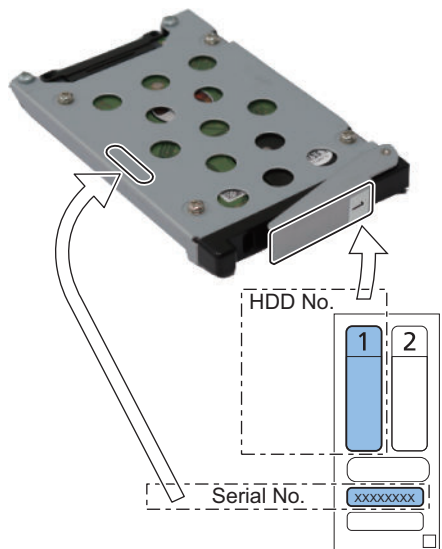
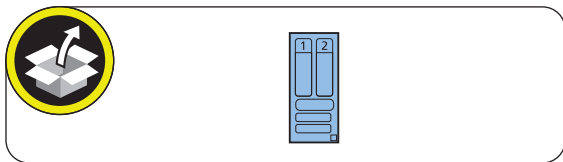
CAUTION:

- Be sure to firmly hold the Connector Fixation Block when tightening the screws.
- Be sure to follow the correct order to tighten the screws, otherwise the Conversion Connector may not be connected properly, resulting in poor contact.

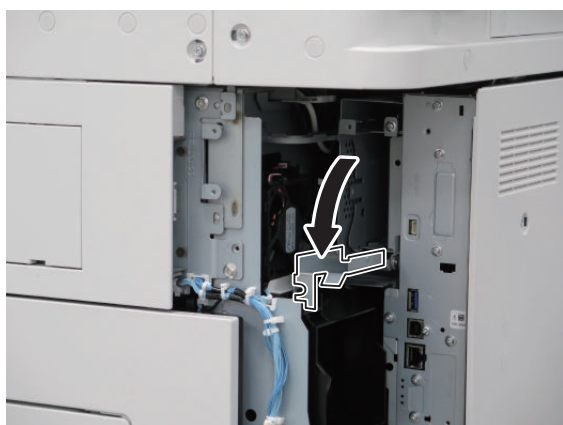


5.

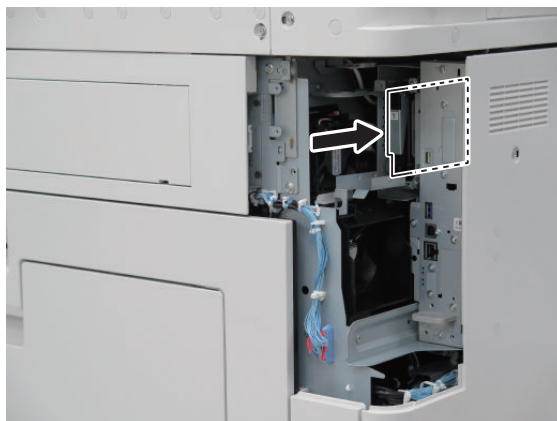
NOTE:
Write down the serial number of the host machine to the label for recording the number, and affix it to the area indicated in the figure.



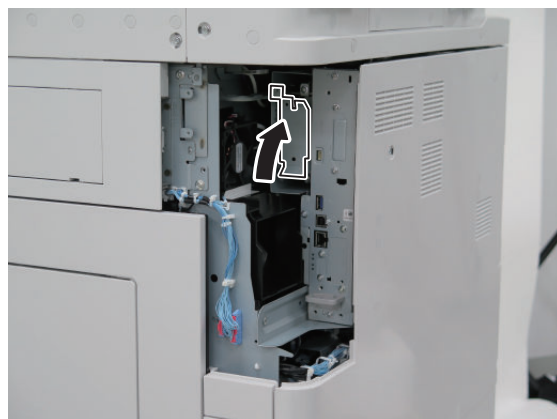
6.



7.



8.

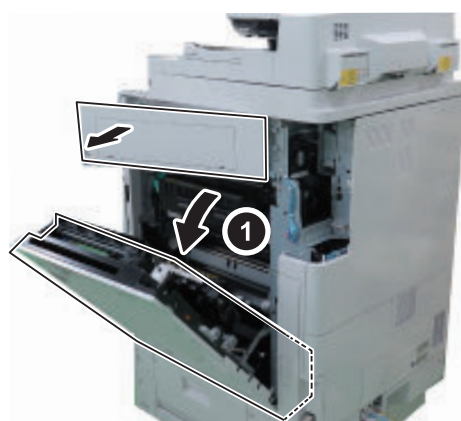


9.

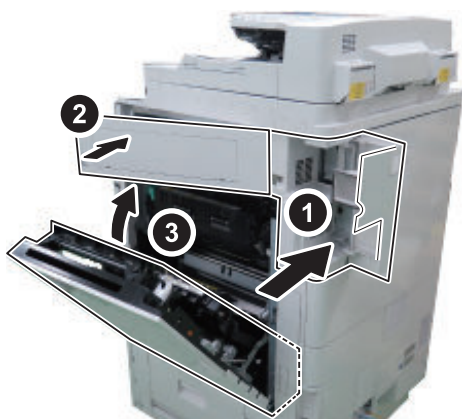
Be sure to request the user to padlock the removable HDD to discourage theft.

10.

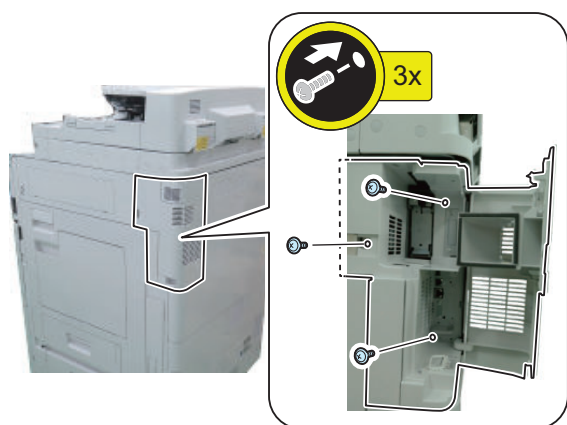
NOTE:
The Right Upper Cover will open at the same time.



□
11.

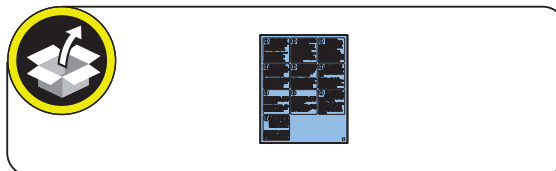


□
12.

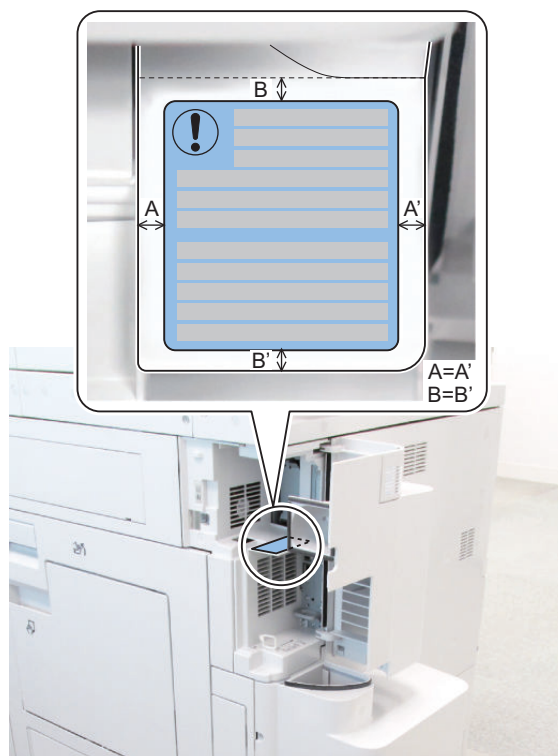
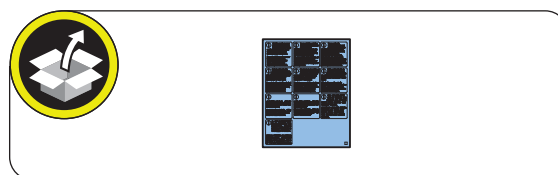


□
13.

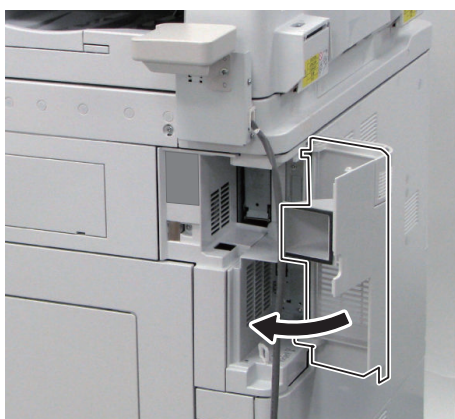
NOTE:
Affix the HDD Caution Label in the appropriate language by aligning it with the upper left corner.



< For the Duct Model (EUR only) >



14.



■ HDD Initialization Procedure

1. Requirements

1. PC
Service Support Tool in the version that supports this host machine must be installed.
2. Cross Ethernet Cable (when SST is used)

2. Preparing for the Installation of the System Software of Host machine

1. If both PC and the machine are on, turn them off.
2. Connect the PC and the host machine using an Cross Ethernet cable. (when SST is used)
3. Turn on the PC.

3. Registering the system software

1. Insert the latest System Software into the PC using the SST.
2. Start the SST.
3. Click 'Register Firmware'.
4. Select the drive where the system software has been inserted, and click the [SEARCH] button.
5. Click the [REGISTER] button.
6. Click [OK].

4. Initializing HDD

<In case of SST>

1. Start the host machine with download mode in safe mode.
2. Start the SST.
3. Select the model. Then, select [Single] and click [Start].
4. Click [Format HDD].
5. Select [All], and click [Start].
6. Click [Execute Format].
7. The Format is executed.
8. Select [Shutdown/Restart], and click [Shutdown].
9. Click [OK]
10. The power of the host machine is turned OFF.
11. Terminate the SST.
12. Disconnect the Cross Ethernet Cable from the machine, and connect the user's network cable to the machine.

<In case of USB flash drive>

1. Connect the USB flash drive to the PC.
2. Start up SST, and click the USB icon displayed in the target selection screen.
3. Select the drive, the model series, and the version to be written to the USB flash drive, and click [Confirm].
4. Click [Start], and after the version has been written to the USB flash drive, click [OK] and then remove the USB flash drive.
5. Terminate the SST.
6. Connect the USB flash drive to the host machine, and start the host machine with download mode in safe mode.
7. When the USB menu is displayed, press keys on the Control Panel in the order shown below.
 - [4]: Clear/Format
 - [1]: Disk Format
 - [0]: OK
 - Press any keys.
 - [C]: Return to menu
 - [Reset] : Start shutdown sequence
 - [0]: OK (The power of the host machine is turned OFF automatically.)
8. Remove the USB flash drive.
9. Turn ON the main power switch.

■ Executing Auto Gradation Adjustment

When the high-capacity HDD is installed, the machine initializes its HDD, resetting the data used for auto gradation correction.

Therefore, execute full adjustment of auto gradation adjustment after installing the high-capacity HDD to enable proper images to be output.

■ Execution of the Minimum Installation Work

Be sure to execute the minimum installation work in accordance with the Setup Guide because HDD is initialized when the high-capacity HDD is installed.

[TYPE-4] Standard HDD + Option HDD (250GB) + HDD Mirroring Kit

■ Checking the Contents

<Option HDD (250 GB)>

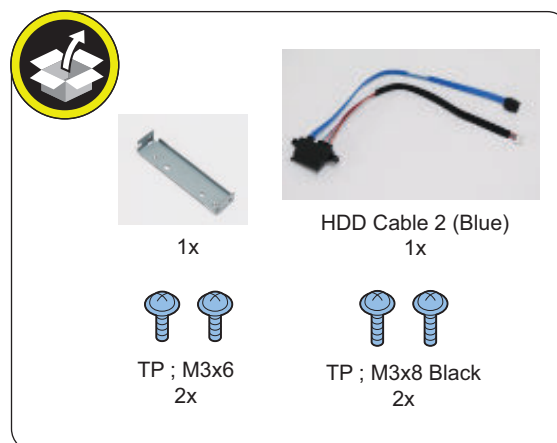
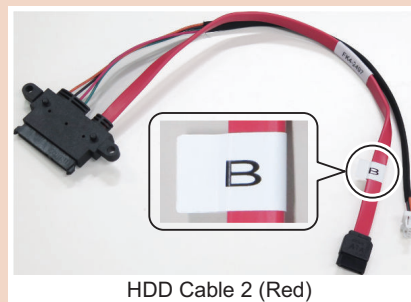


<HDD Mirroring Kit>

CAUTION:

Although the red cable shown below may sometimes be supplied in lieu of the HDD Cable 2 (Blue), the procedure for connecting the red cable is the same as that for the blue cable.

When connecting the cable to the Controller PCB, make sure to first confirm that the sticker [B] is attached to the cable and then connect the cable to the Controller PCB.



<Others>

- Guides are included

■ Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:

- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

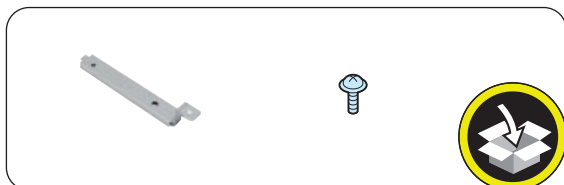
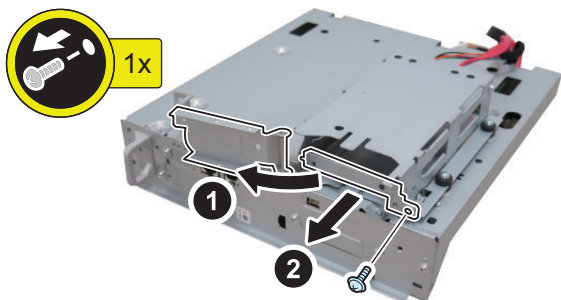
■ Installation Procedure

CAUTION:

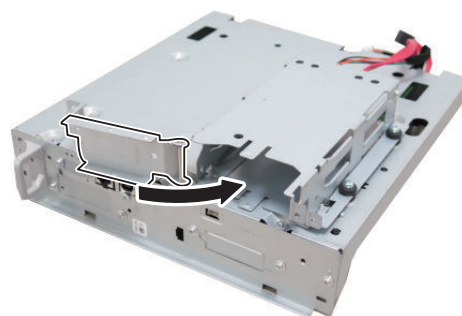
Be sure to perform [“Removing the HDD \(Preparation\)”](#) on page 1468 before performing the following work.

● Installing the HDD Mirroring Kit

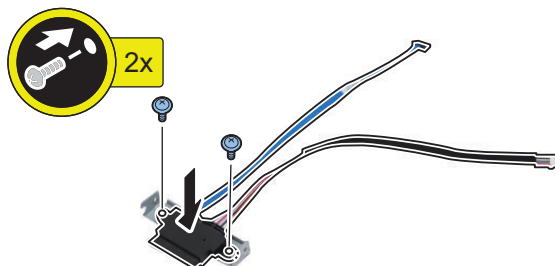
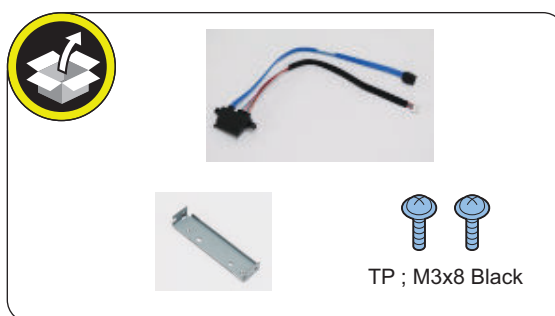
□
1.

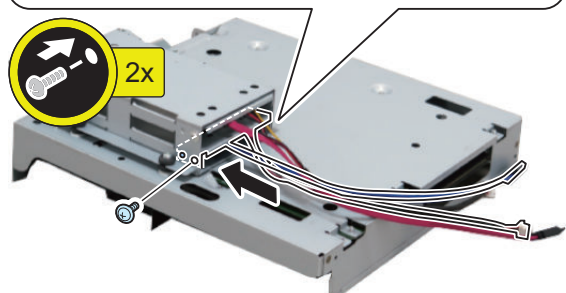
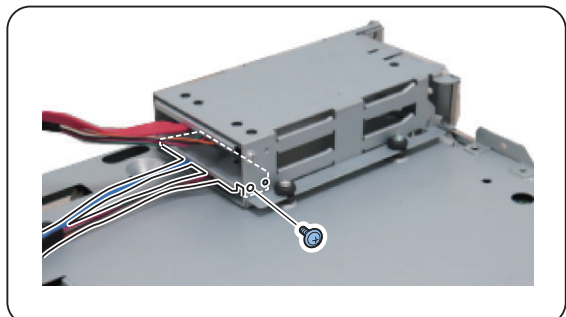
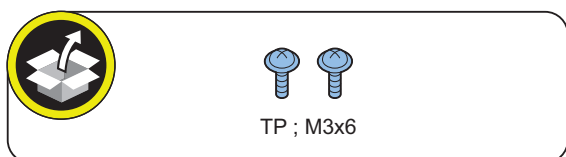


□
2.

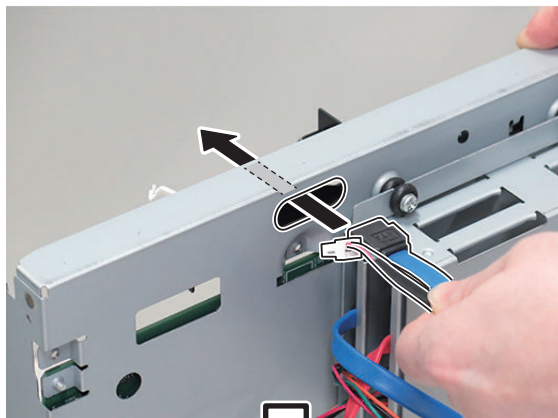


□
3.



□
4.□
5.**NOTE:**

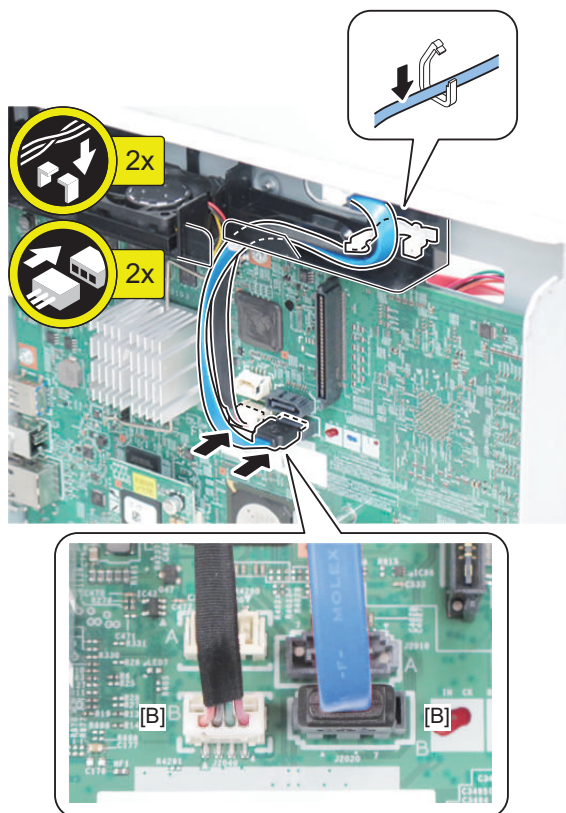
Pass the HDD Cable 2 (Blue) or the HDD Cable 2 (Red) with a sticker labeled [B] through the hole.



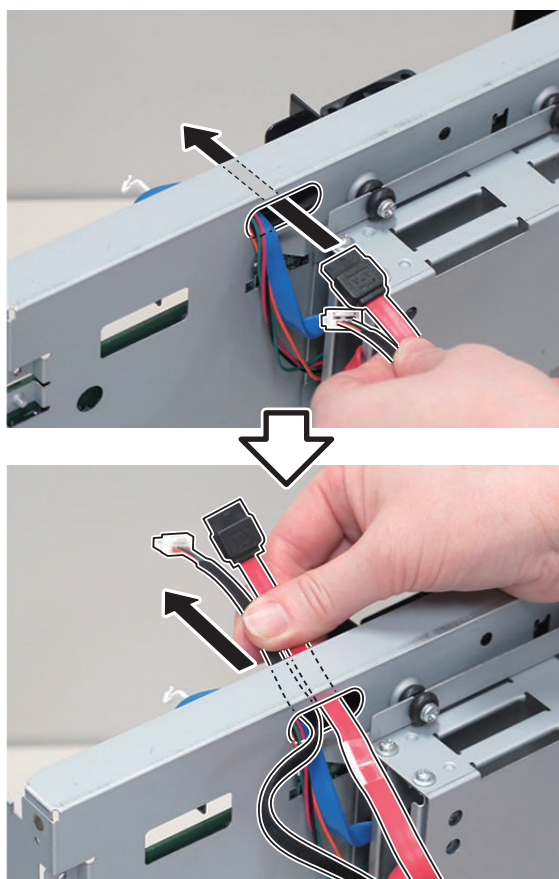
6.

CAUTION:

- Be sure to connect the communication cable to the correct port.
- Connect the HDD Cable 2 (Blue) or the HDD Cable 2 (Red) with a sticker labeled [B] to [B] on the Controller PCB.



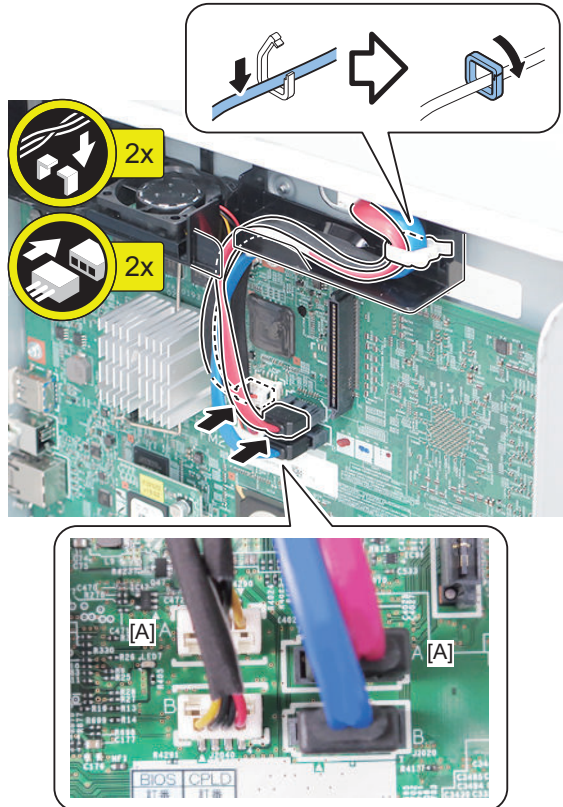
7.



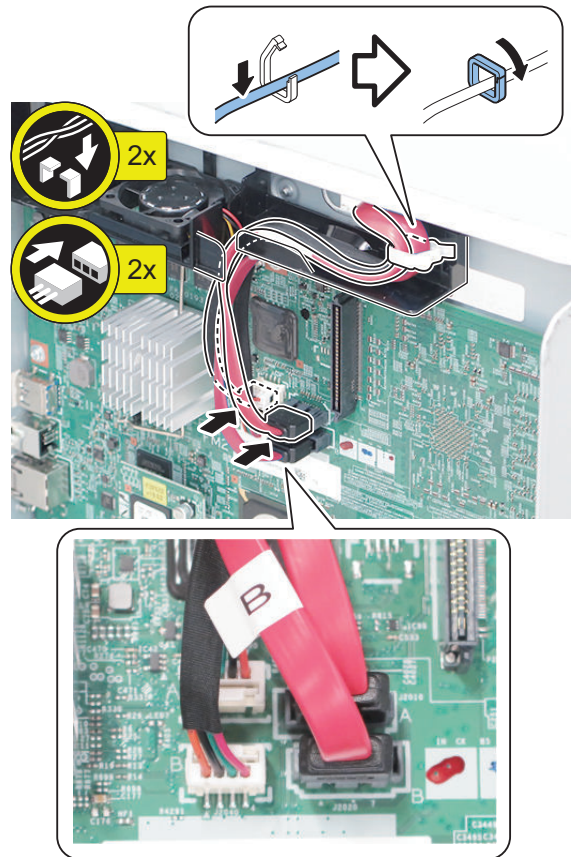
□
8.

CAUTION:
Connect the HDD Cable 1 (Red) to [A] on the Controller PCB.

<When using the HDD Cable 2 (Blue)>



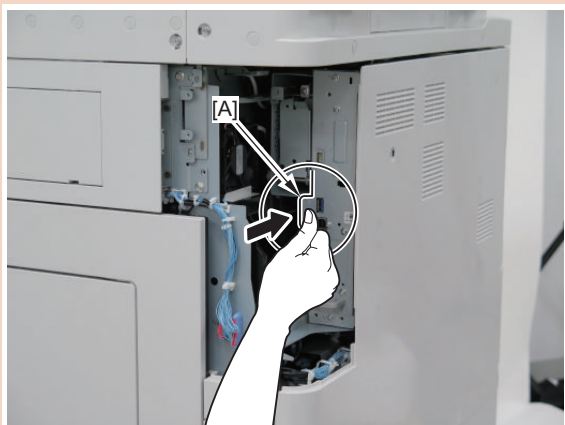
<When using the HDD Cable 2 (Red) >



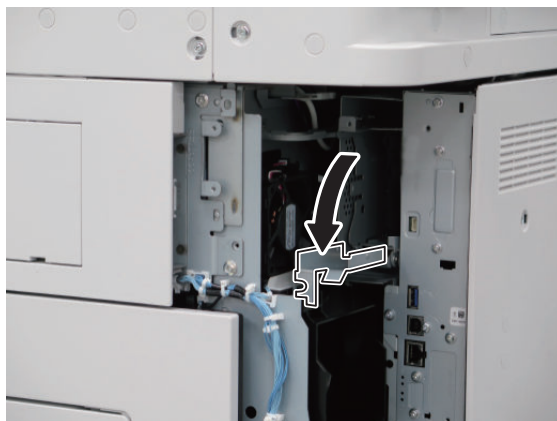
9.

CAUTION:

- Be sure to insert the Main Controller PCB 1 until it stops.
- Be sure to push the [A] part hard to install it as it may otherwise result in poor contact of the connector.



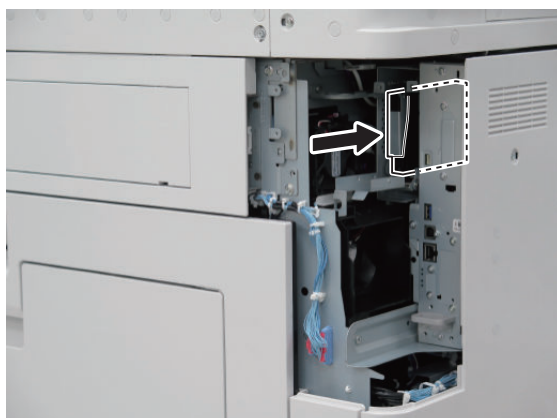
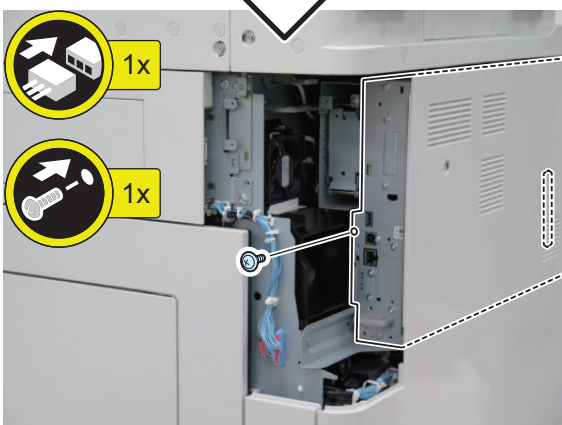
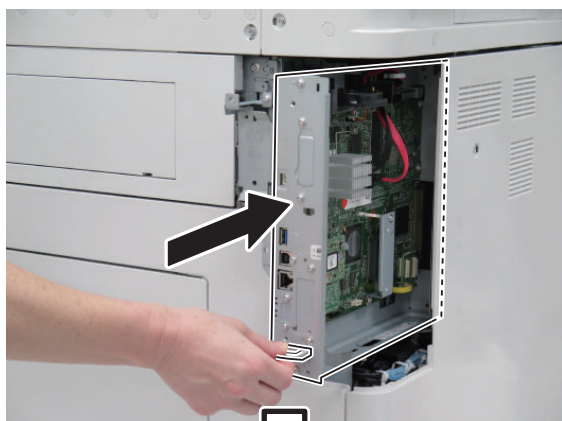
10.



11.

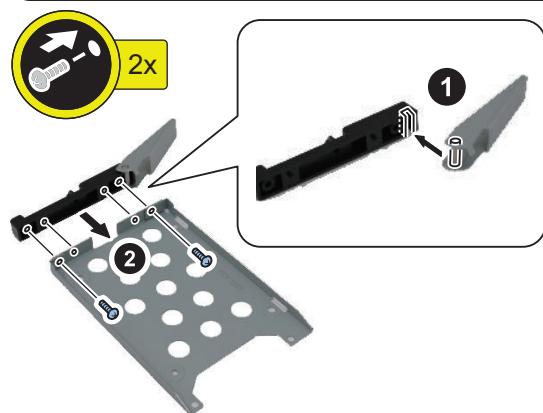
NOTE:

Put the HDD removed from the host machine back in the Slot 1 (Left).

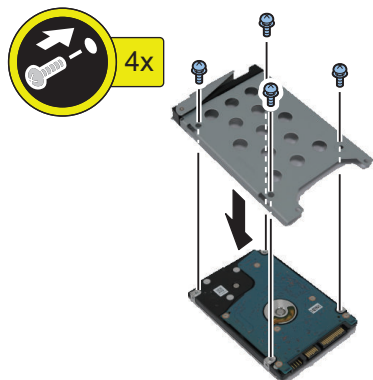


• Assembling and Installing the Option HDD

1.

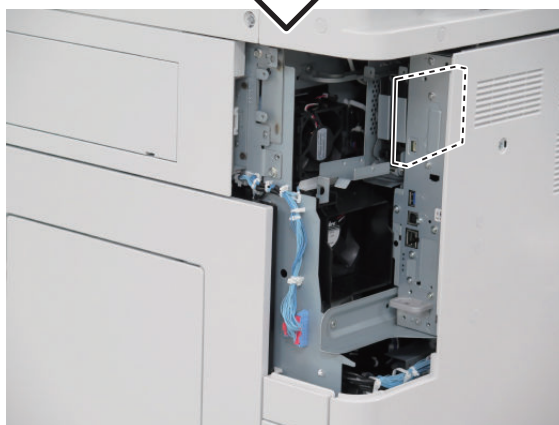
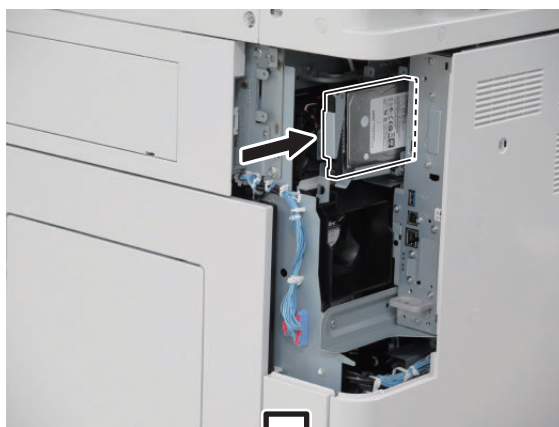


2.



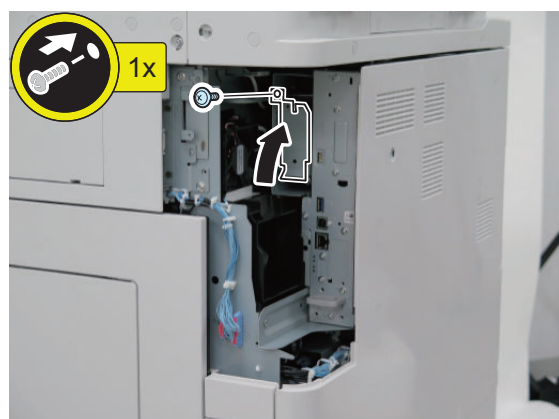
3.

NOTE:
Install the Option HDD to the Slot 2 (Right).



4.

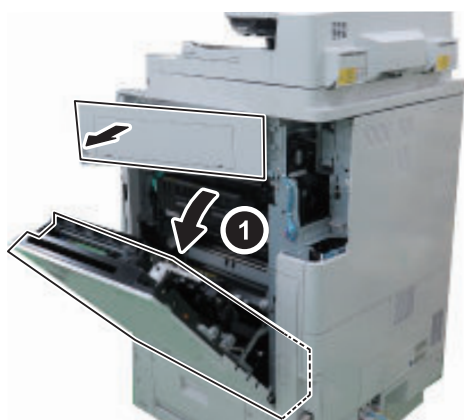
NOTE:
Use the screw removed in step 4 of "Removing the HDD (Preparation)".



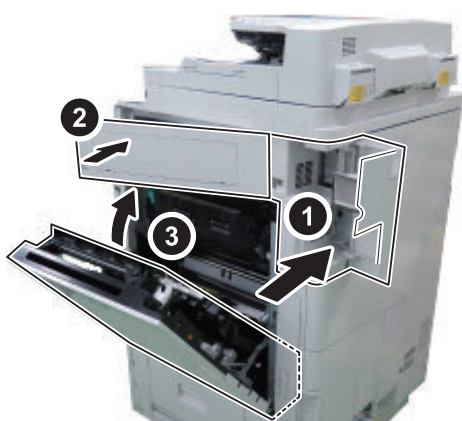
□
5.

NOTE:

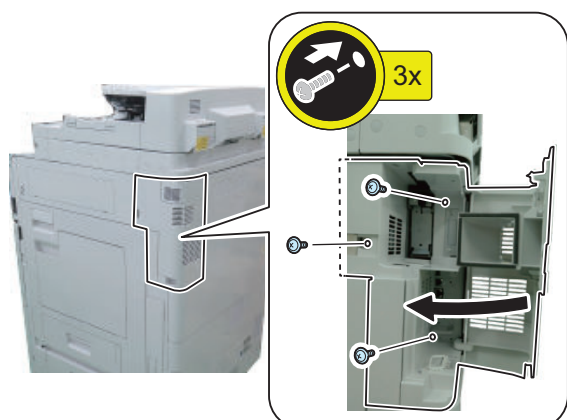
The Right Upper Cover will open at the same time.



□
6.



□
7.



■ Setting the Mirroring

□

1. Set the setting value for the mirroring to "1" in the following service mode.
COPIER > OPTION > FNC-SW > W/RAID
2. Turn OFF/ON the main power of the host machine to enable the setting value.
3. Make sure that the UI screen is activated correctly.
4. Open the Cover, and make sure that the LED blinks.

NOTE:

Rebuilding starts approximately after 3 minutes after turning OFF and then ON the power.

- HDD 1 (Slot 1): The green LED blinks.
- HDD 2 (Slot 2): The green and red LEDs blink.

CAUTION:

Rebuild process starts after setting "1" for W/RAID. If an error occurs during the rebuild process at the initial installation the hard disk needs to be replaced. (Call service rep.), reexecute the process with the following procedure.

1. Check that the lighting red LED is HDD2.
2. Select "0" for the following service mode.
COPIER > OPTION > FNC-SW > W/RAID
3. To enable the setting value, turn OFF/ON the Main Power Supply Switch of the host machine.
4. Select "1" for the following service mode.
COPIER > OPTION > FNC-SW > W/RAID
5. To enable the setting value, turn OFF/ON the Main Power Supply Switch of the host machine.

The foregoing procedure is limited to the rebuild process at the initial installation.

An error during the rebuild process that is executed during operation is not included in the consideration.

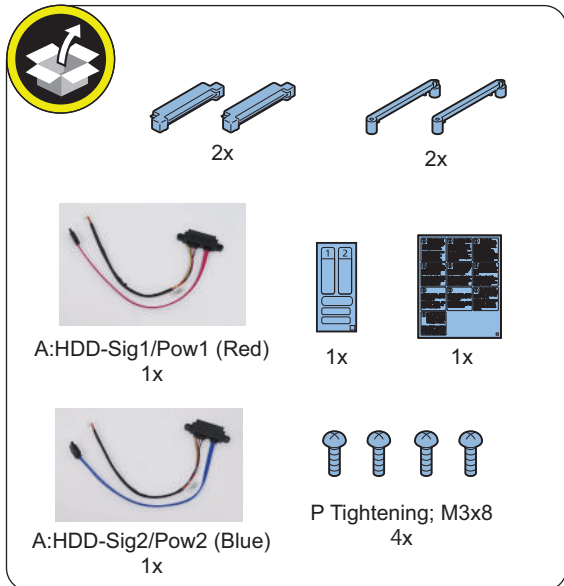
[TYPE-5] Standard HDD + Option HDD (250GB) + Removable HDD Kit + HDD Mirroring Kit

■ Checking the Contents

<Option HDD (250 GB)>

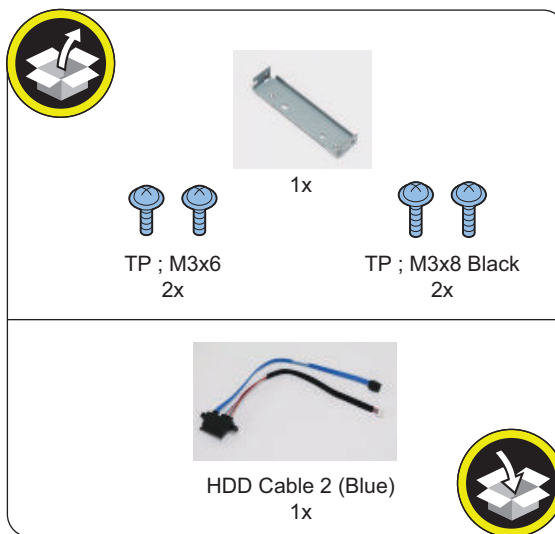
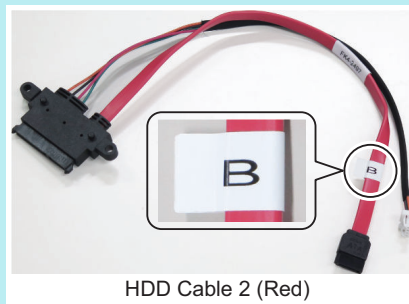


<Removable HDD Kit>



<HDD Mirroring Kit>

NOTE:
The red cable shown below may sometimes be supplied in lieu of the HDD Cable 2 (Blue).



<Others>

- Guides are included

■ Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:

- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

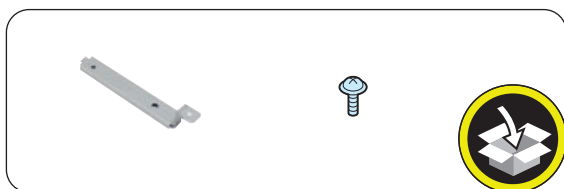
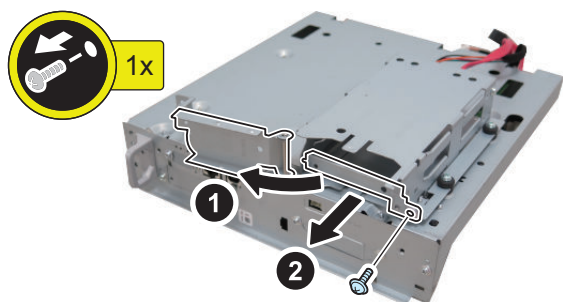
■ Installation Procedure

CAUTION:

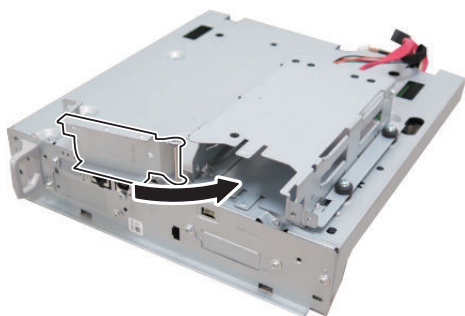
Be sure to perform “[Removing the HDD \(Preparation\)](#)” on page 1468 before performing the following work.

● Installing the Removable HDD Kit

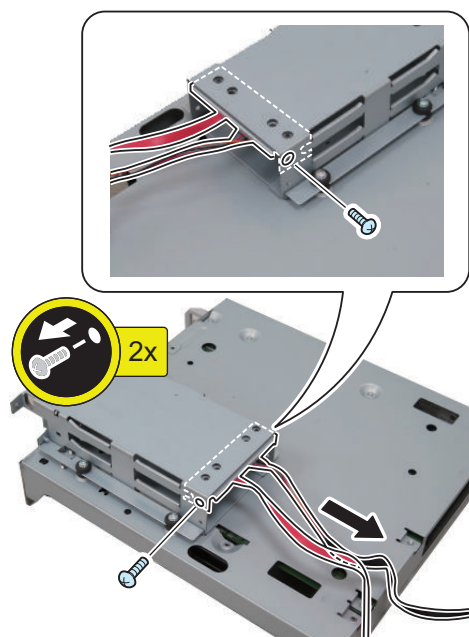
□
1.



□
2.



□
3.

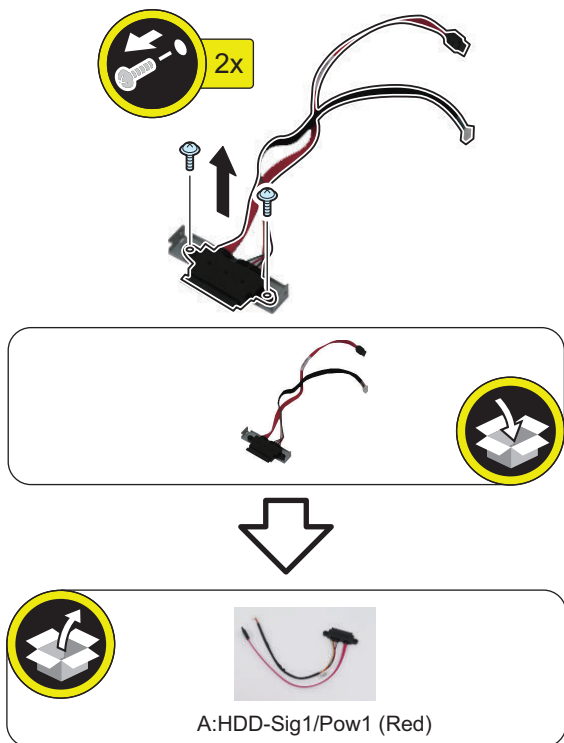


NOTE:

The removed screws will be used in step 5.

4.

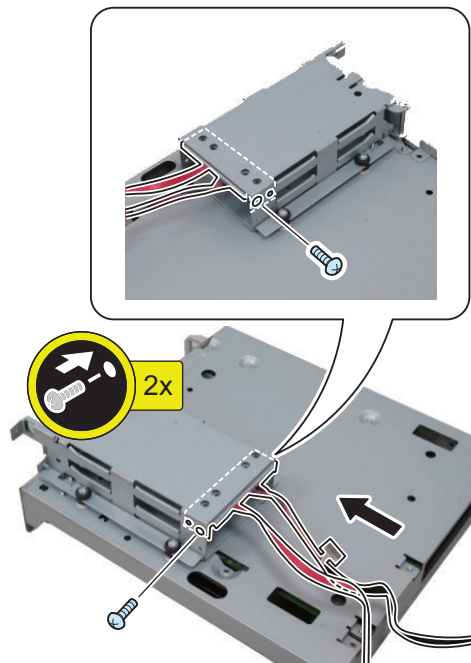
NOTE:
Remove the HDD Cable from the HDD Connector Support Plate, and replace it with the A: HDD-Sig1/Pow1 (Red)
(The removed cable will not be used).



5.

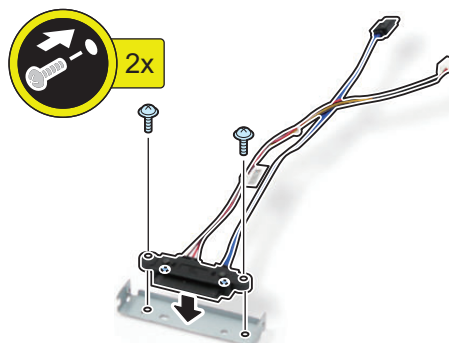
NOTE:

- Install the assembled A: HDD-Sig1/Pow1 (Red).
- Use the screws removed in step 3.



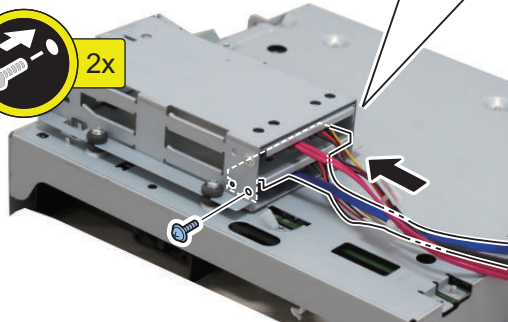
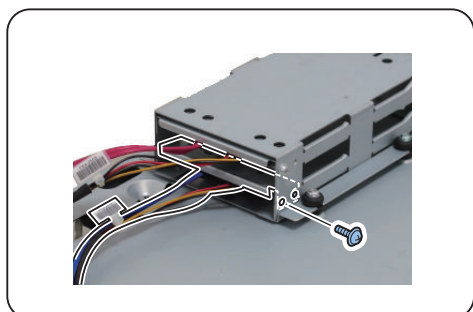
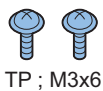
6.

NOTE:
Use the A: HDD-Sig2/Pow2 (Blue) included with the Removable HDD Kit.

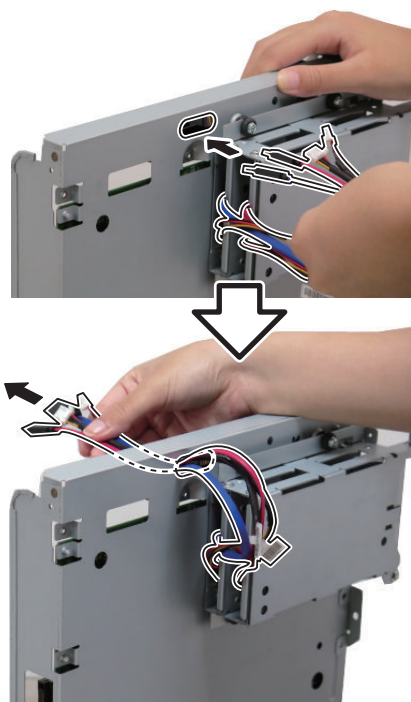


□
7.

NOTE:
Install the assembled A: HDD-Sig2/Pow2 (Blue).



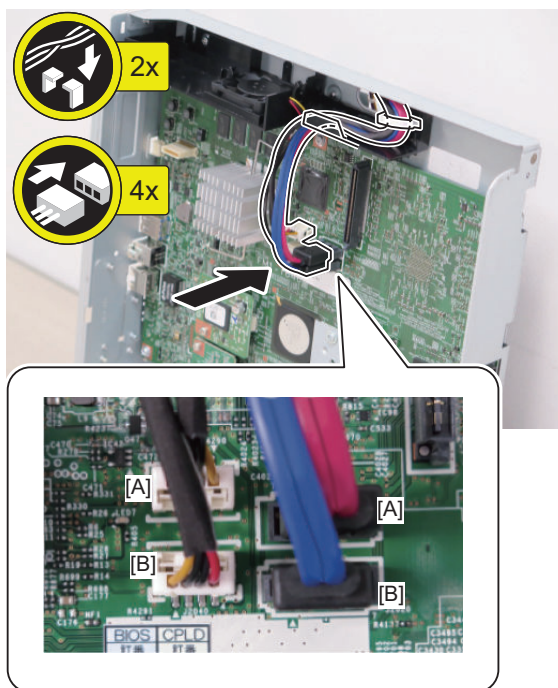
□
8.



□
9.

CAUTION:

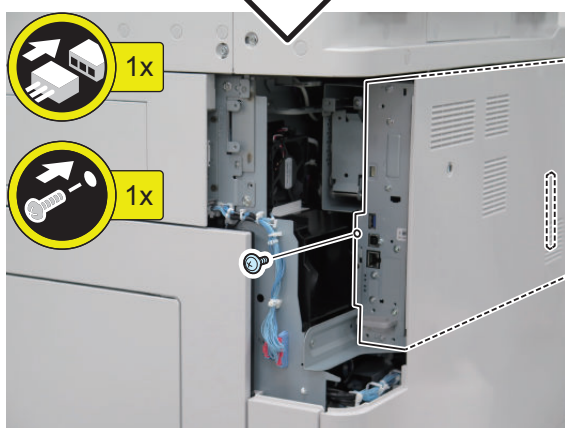
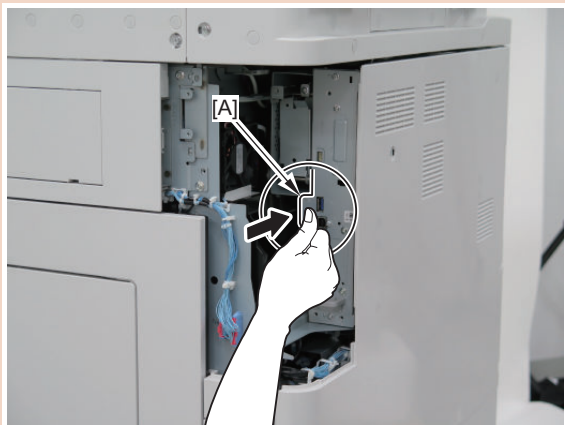
- Be sure to connect the communication cable to the correct port.
- Be sure to connect the A: HDD-Sig1/Pow1 (Red) to [A] on the Controller PCB.
- Be sure to connect the A: HDD-Sig2/Pow2 (Blue) to [B] on the Controller PCB.



10.

CAUTION:

- Be sure to insert the Main Controller PCB 1 until it stops.
- Be sure to push [A] part hard to install it, otherwise the connector may not be connected properly.



• **Assembling and Installing the HDD Removed from the Host Machine (First HDD)**

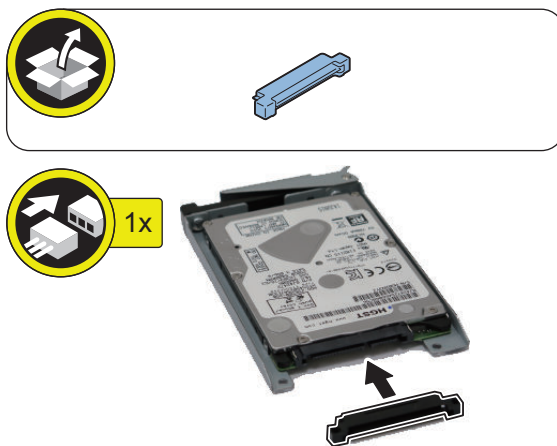
1.

NOTE:

Use the HDD removed from the host machine.

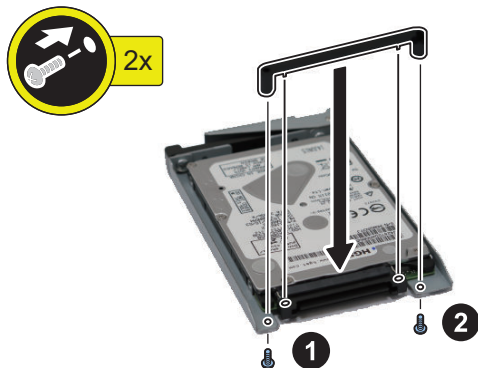
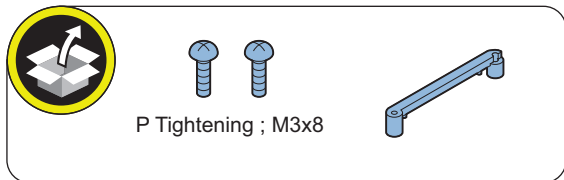
CAUTION:

Be sure that there is no gap between the HDD Connector and the Conversion Connector.



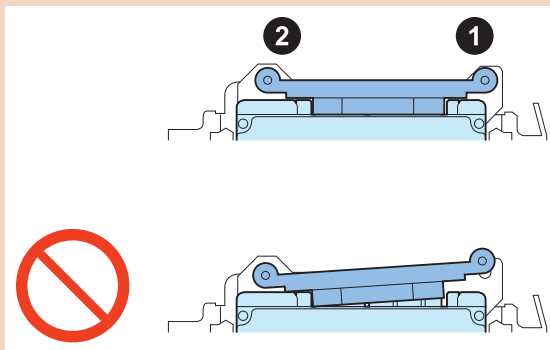
2.

NOTE:
Use the 2 screws (P Tightening; M3x8) included with the Removable HDD Kit.



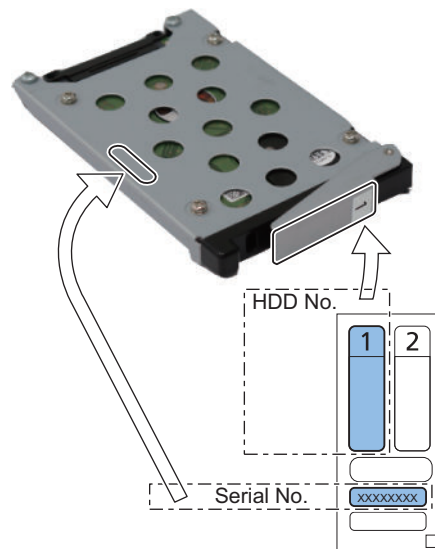
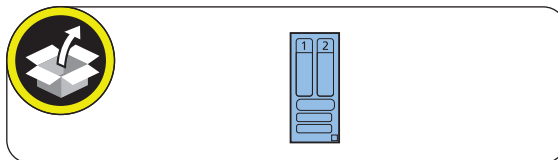
CAUTION:

- Be sure to firmly hold the Connector Fixation Block when tightening the screws.
- Be sure to follow the correct order to tighten the screws, otherwise the Conversion Connector may not be connected properly, resulting in poor contact.

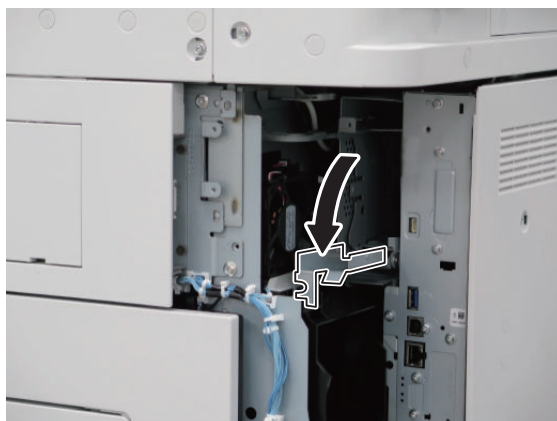


3.

NOTE:
Write down the serial number of the host machine to the label for recording the number, and affix it to the area indicated in the figure.

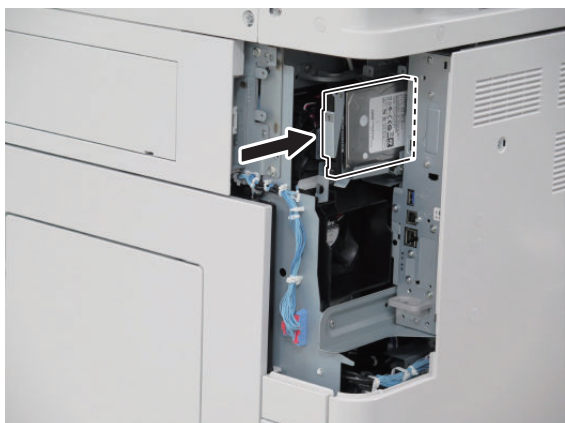


4.



5.

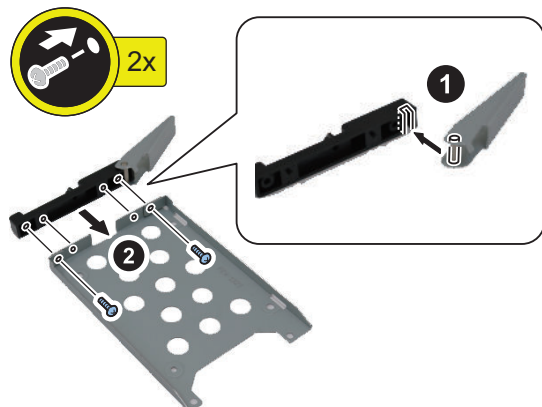
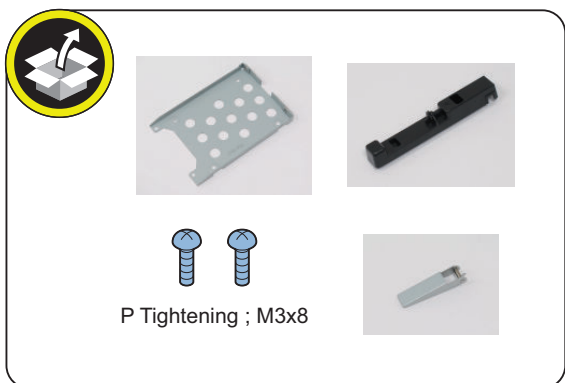
NOTE:
Return the HDD removed from the host machine to the Slot 1 (Left).



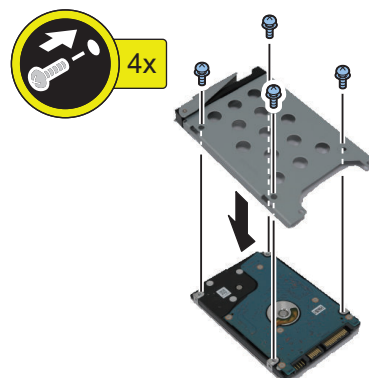
• Assembling and Installing the Option HDD

1.

NOTE:
Use the 2 screws (P Tightening; M3x8) included with the Option HDD.

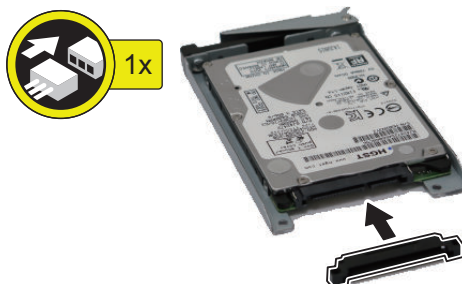
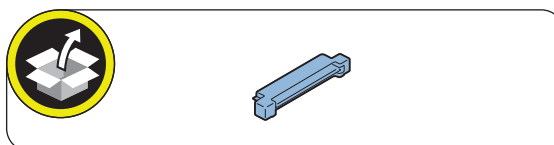


2.



3.

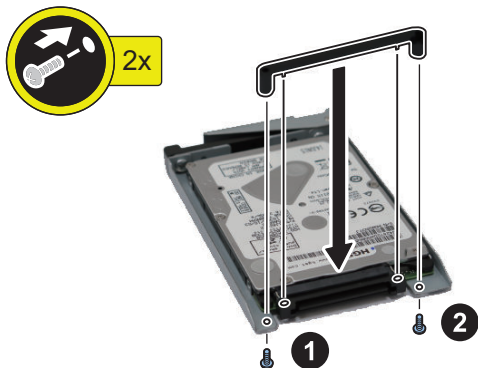
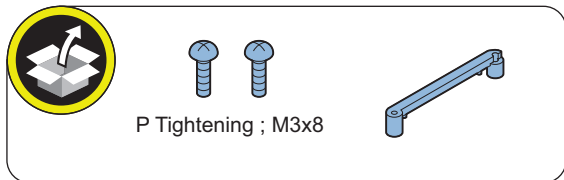
CAUTION:
Be sure that there is no gap between the HDD Connector and the Conversion Connector.



4.

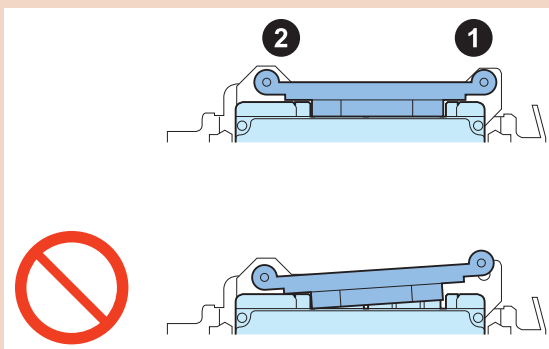
NOTE:

Use the 2 screws (P Tightening; M3x8) included with the Removable HDD Kit.



CAUTION:

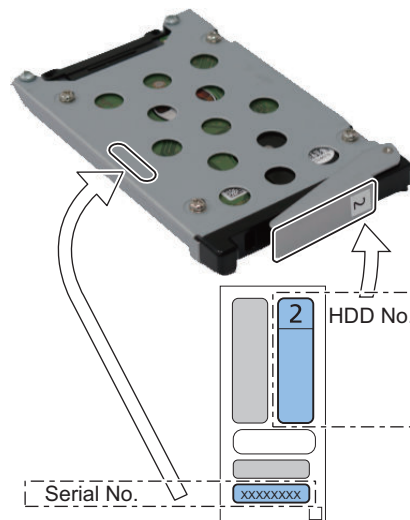
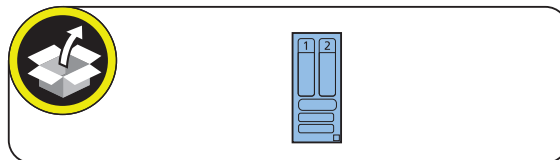
- Be sure to firmly hold the Connector Fixation Block when tightening the screws.
- Be sure to follow the correct order to tighten the screws, otherwise the Conversion Connector may not be connected properly, resulting in poor contact.



5.

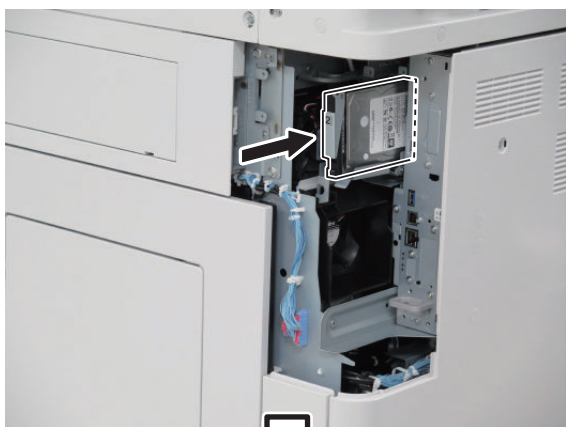
NOTE:

Write down the serial number of the host machine to the label for recording the number, and affix it to the area indicated in the figure.

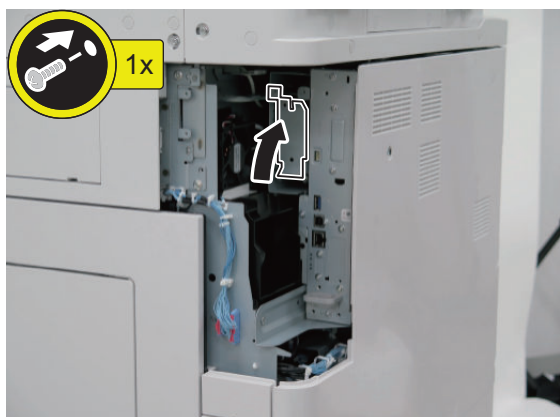


□
6.

NOTE:
Install the Option HDD to the Slot 2 (Right).



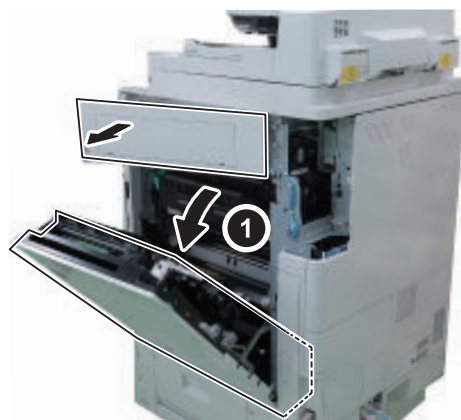
□
7.



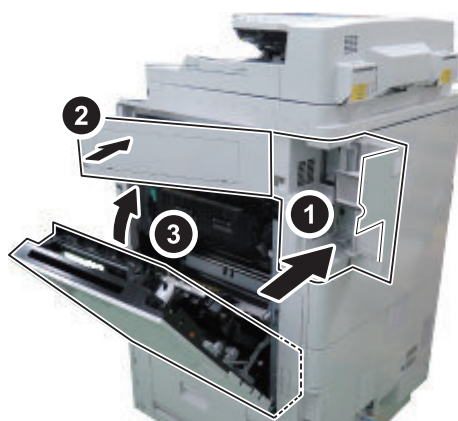
□
8. Be sure to request the user to padlock the removable HDD to discourage theft.

□
9.

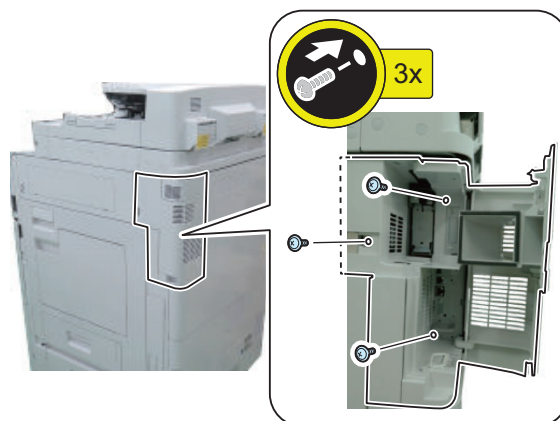
NOTE:
The Right Upper Cover will open at the same time.



□
10.



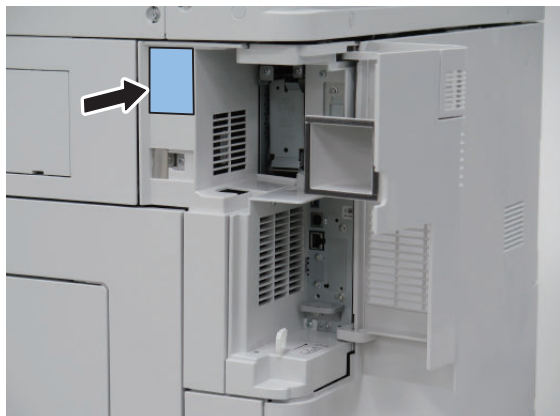
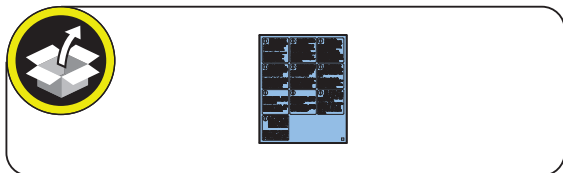
□
11.



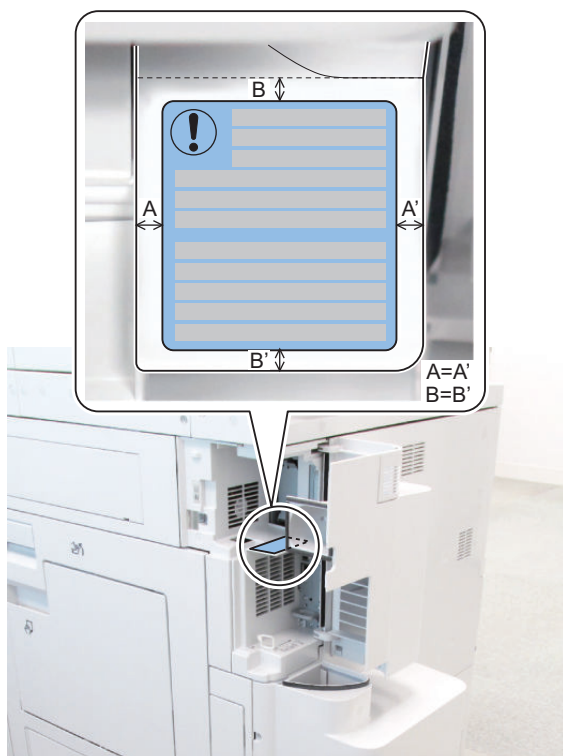
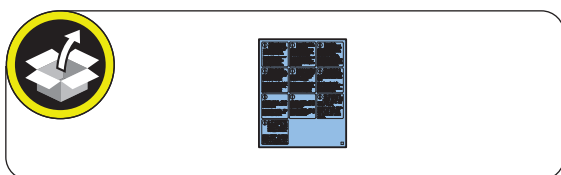
□
12.

NOTE:

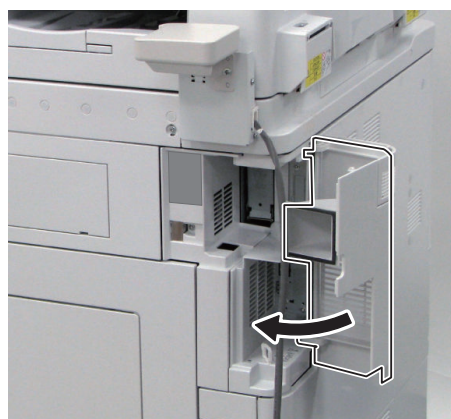
Affix the HDD Caution Label in the appropriate language by aligning it with the upper left corner.



< For the Duct Model (EUR only) >



□
13.



■ Setting the Mirroring

□

1. Set the setting value for the mirroring to "1" in the following service mode.
COPIER > OPTION > FNC-SW > W/RAID
2. Turn OFF/ON the main power of the host machine to enable the setting value.
3. Make sure that the UI screen is activated correctly.
4. Open the Cover, and make sure that the LED blinks.

NOTE:

Rebuilding starts approximately after 3 minutes after turning OFF and then ON the power.

- HDD 1 (Slot 1): The green LED blinks.
- HDD 2 (Slot 2): The green and red LEDs blink.

CAUTION:

Rebuild process starts after setting "1" for W/RAID. If an error occurs during the rebuild process at the initial installation the hard disk needs to be replaced. (Call service rep.), reexecute the process with the following procedure.

1. Check that the lighting red LED is HDD2.
2. Select "0" for the following service mode.
COPIER > OPTION > FNC-SW > W/RAID
3. To enable the setting value, turn OFF/ON the Main Power Supply Switch of the host machine.
4. Select "1" for the following service mode.
COPIER > OPTION > FNC-SW > W/RAID
5. To enable the setting value, turn OFF/ON the Main Power Supply Switch of the host machine.

The foregoing procedure is limited to the rebuild process at the initial installation.

An error during the rebuild process that is executed during operation is not included in the consideration.

[TYPE-6] 2 Option HDDs (1TB) + HDD Mirroring Kit

■ Checking the Contents

<Option HDD (1TB)>

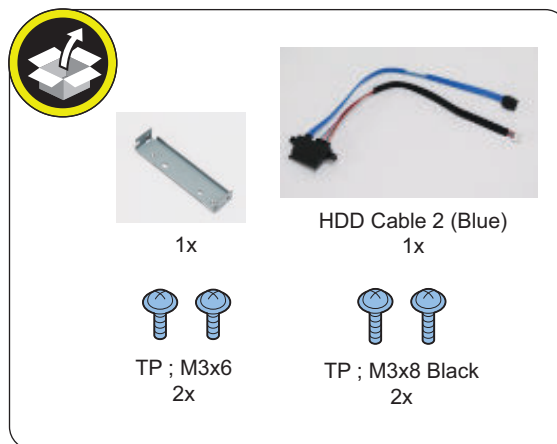
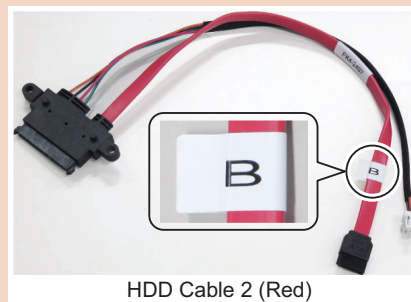


<HDD Mirroring Kit>

CAUTION:

Although the red cable shown below may sometimes be supplied in lieu of the HDD Cable 2 (Blue), the procedure for connecting the red cable is the same as that for the blue cable.

When connecting the cable to the Controller PCB, make sure to first confirm that the sticker [B] is attached to the cable and then connect the cable to the Controller PCB.



<Others>

- Guides are included

■ Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:

- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

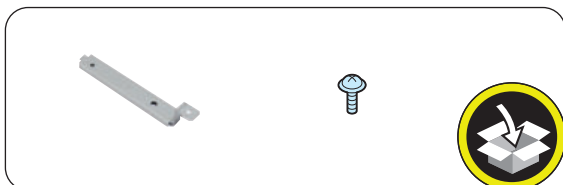
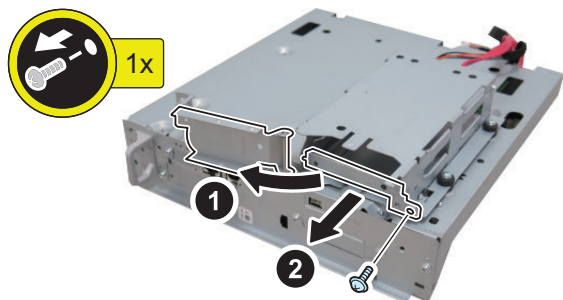
■ Installation Procedure

CAUTION:

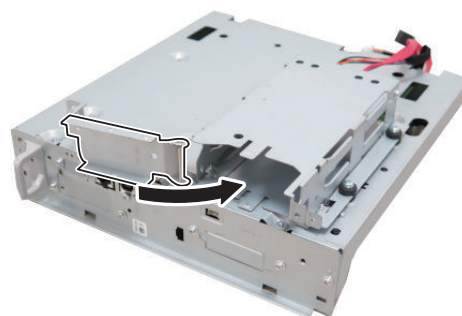
Be sure to perform "[Removing the HDD \(Preparation\)](#)" on page 1468 before performing the following work.

● Installing the HDD Mirroring Kit

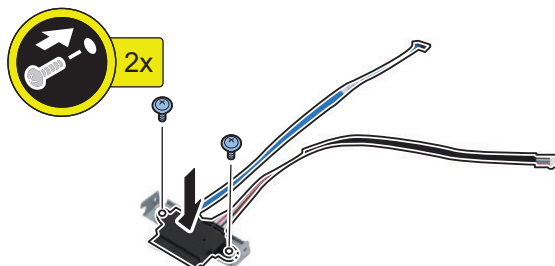
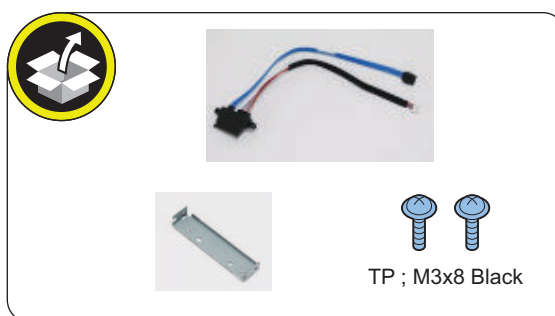
□
1.



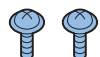
□
2.



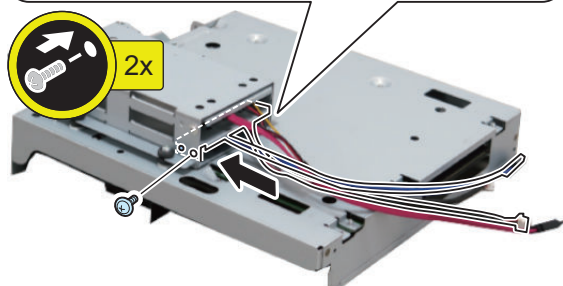
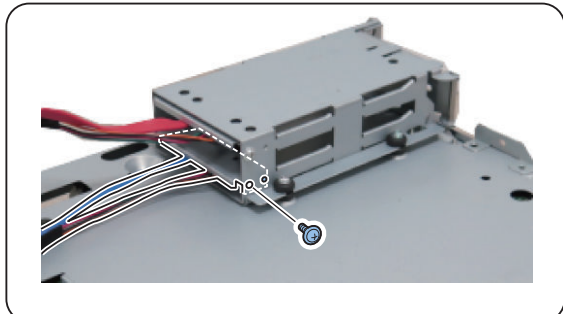
□
3.



□
4.



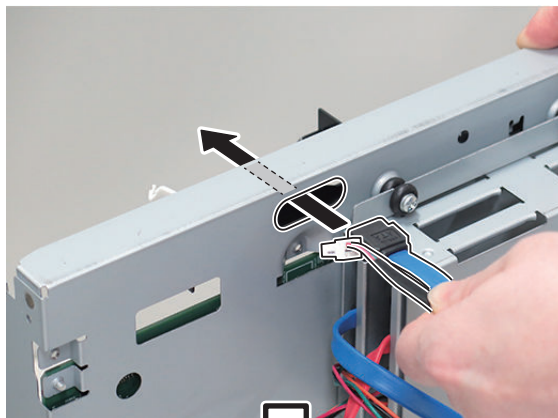
TP ; M3x6



□
5.

NOTE:

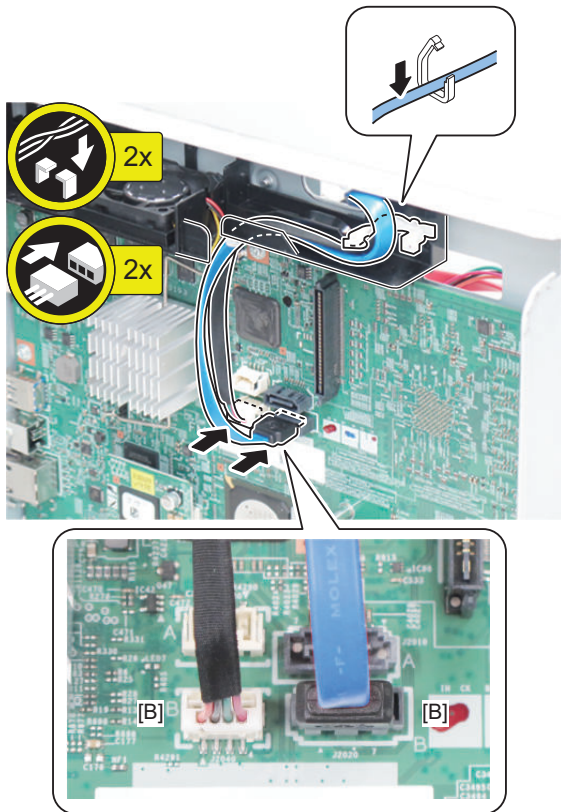
Pass the HDD Cable 2 (Blue) or the HDD Cable 2 (Red) with a sticker labeled [B] through the hole.



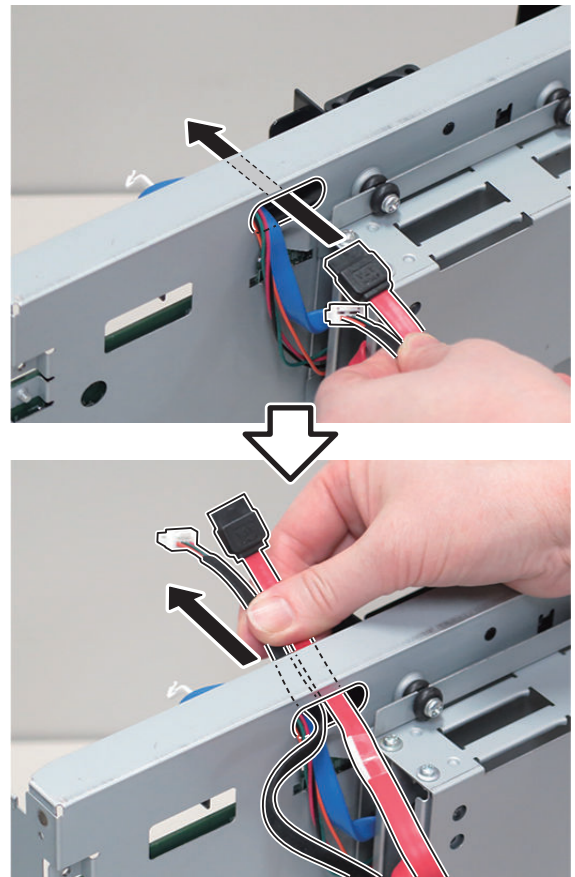
□
6.

CAUTION:

- Be sure to connect the communication cable to the correct port.
- Connect the HDD Cable 2 (Blue) or the HDD Cable 2 (Red) with a sticker labeled [B] to [B] on the Controller PCB.



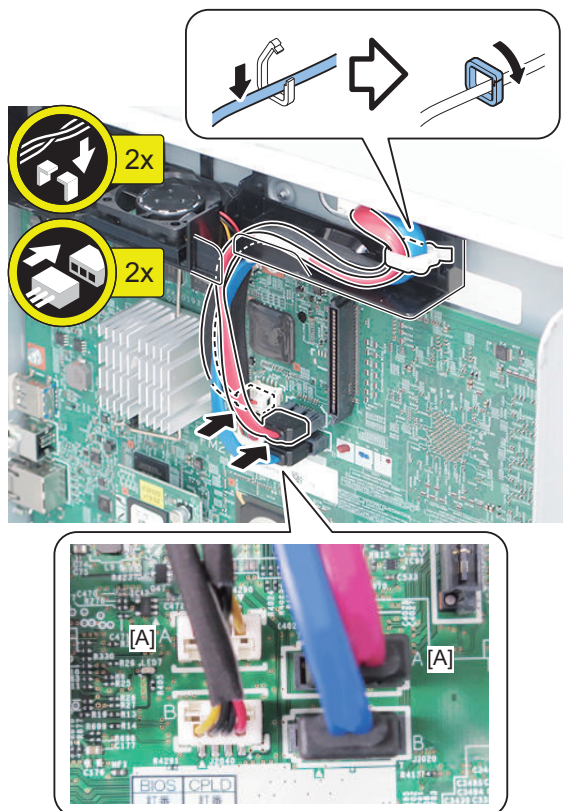
□
7.



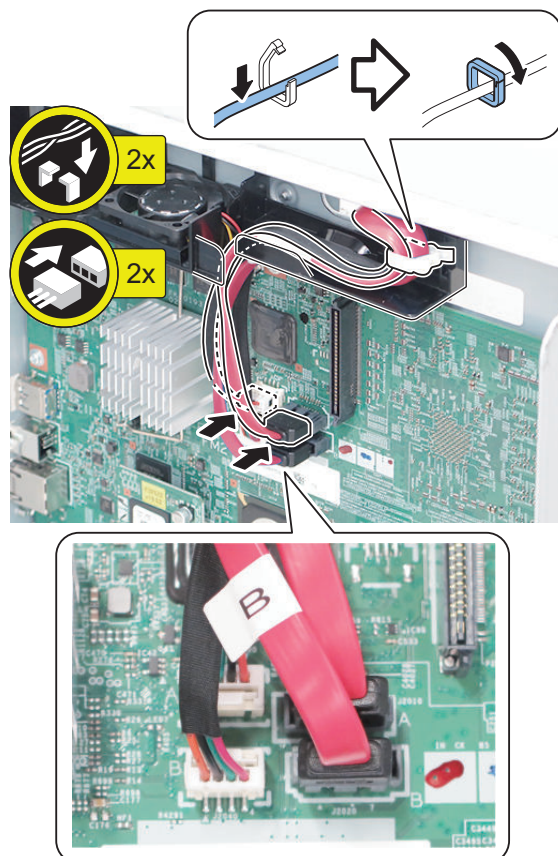
□
8.

CAUTION:
Connect the HDD Cable 1 (Red) to [A] on the Controller PCB.

<When using the HDD Cable 2 (Blue)>



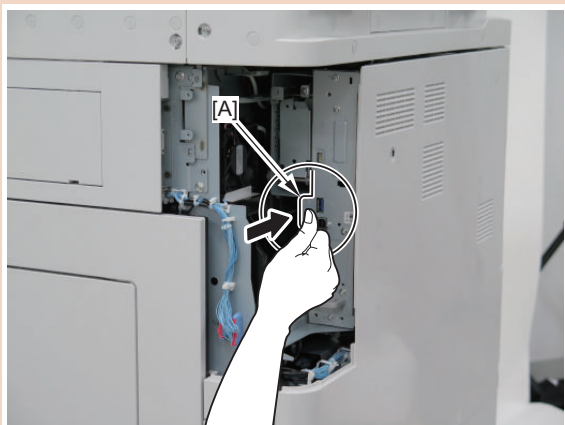
<When using the HDD Cable 2 (Red)>



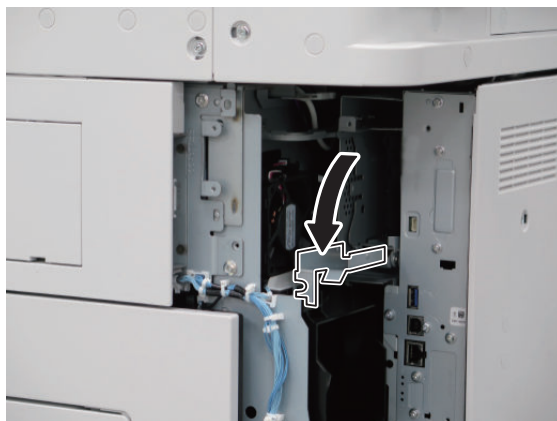
9.

CAUTION:

- Be sure to insert the Main Controller PCB 1 until it stops.
- Be sure to push the [A] part hard to install it as it may otherwise result in poor contact of the connector.



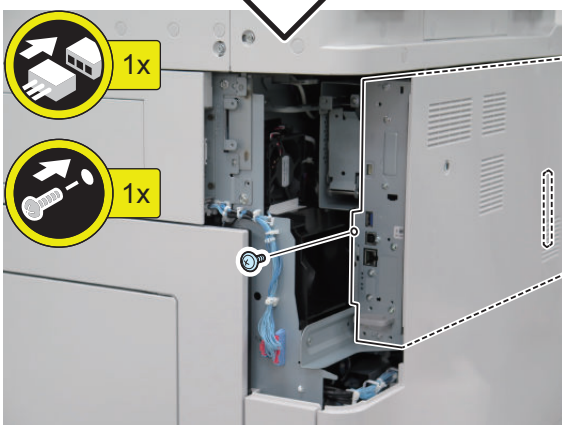
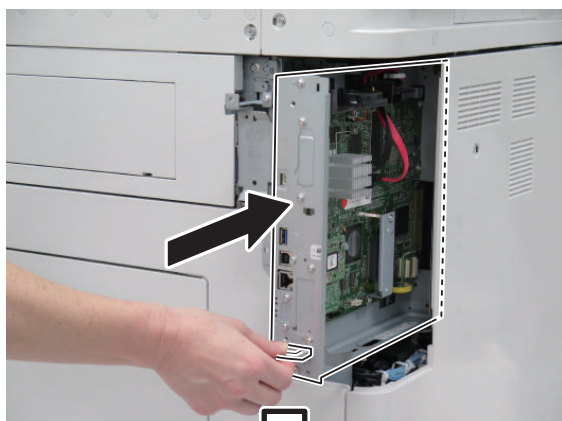
10.



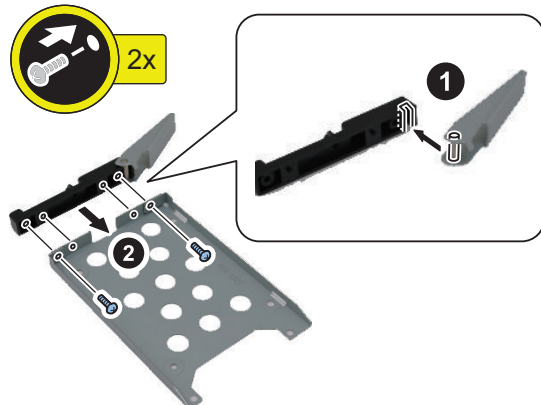
• **Assembling and Installing the Option HDD**

NOTE:

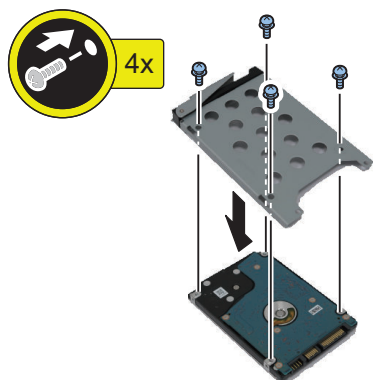
Install the 2 Option HDDs according to the steps 1 to 2.



1.

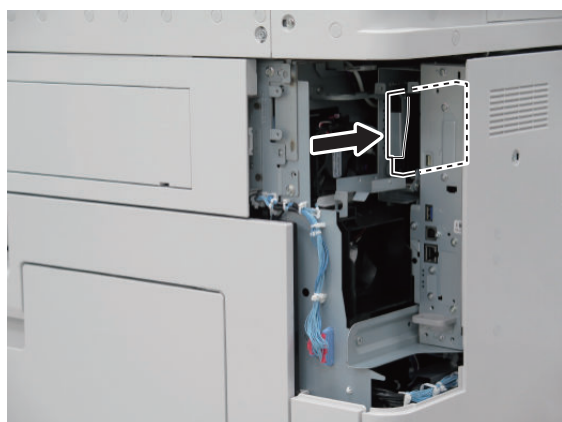


□
2.



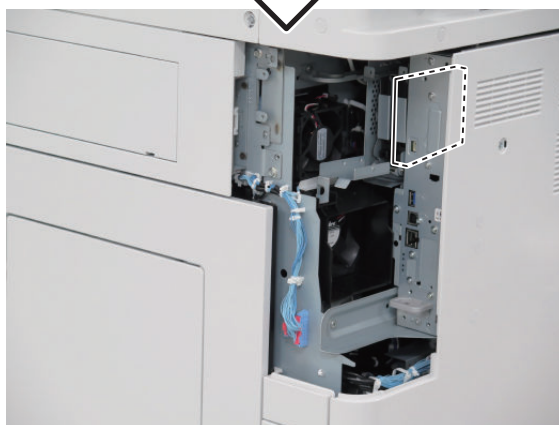
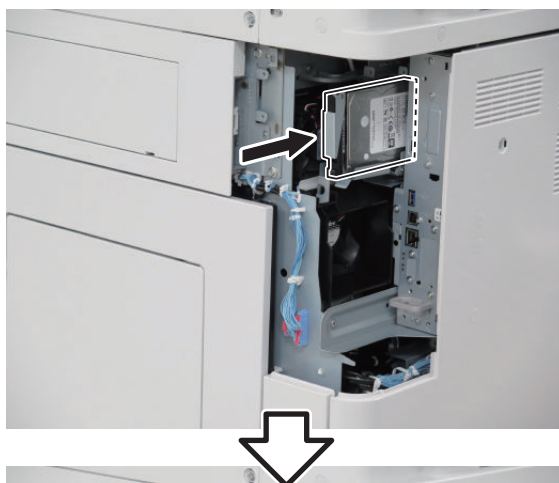
□
3.

NOTE:
Install the first Option HDD to the Slot 1 (Left).



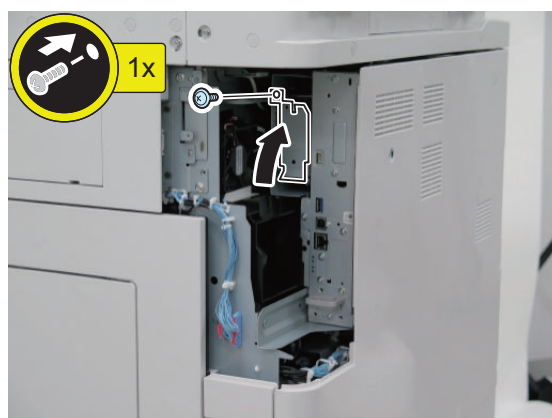
□
4.

NOTE:
Install the second Option HDD to the Slot 2 (Right).



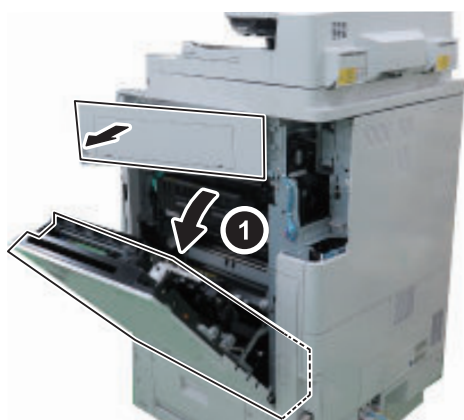
□
5.

NOTE:
Use the screw removed in step 4 of "Removing the HDD (Preparation)".

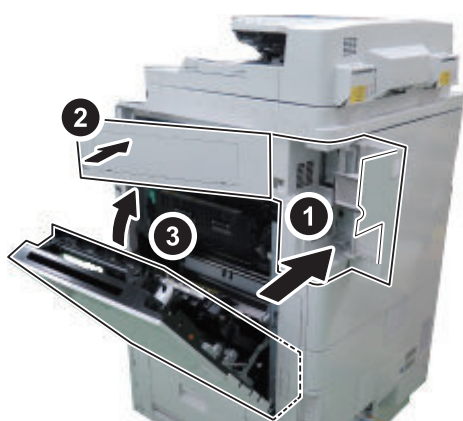


□
6.

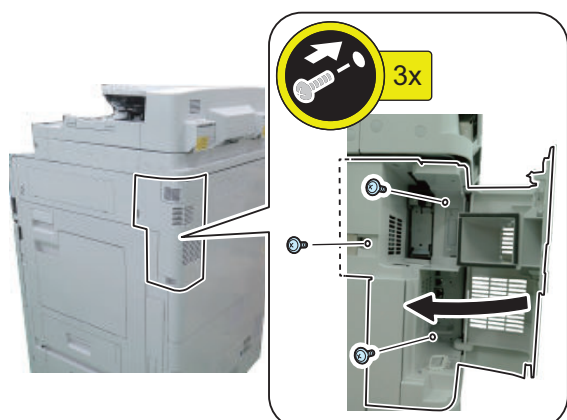
NOTE:
The Right Upper Cover will open at the same time.



□
7.



□
8.



■ HDD Initialization Procedure

1. Requirements

1. PC
Service Support Tool in the version that supports this host machine must be installed.
2. Cross Ethernet Cable (when SST is used)

2. Preparing for the Installation of the System Software of Host machine

1. If both PC and the machine are on, turn them off.
2. Connect the PC and the host machine using an Cross Ethernet cable. (when SST is used)
3. Turn on the PC.

3. Registering the system software

1. Insert the latest System Software into the PC using the SST.
2. Start the SST.
3. Click 'Register Firmware'.
4. Select the drive where the system software has been inserted, and click the [SEARCH] button.
5. Click the [REGISTER] button.
6. Click [OK].

4. Initializing HDD

<In case of SST>

1. Start the host machine with download mode in safe mode.
2. Start the SST.
3. Select the model. Then, select [Single] and click [Start].
4. Click [Format HDD].
5. Select [All], and click [Start].
6. Click [Execute Format].
7. The Format is executed.
8. Select [Shutdown/Restart], and click [Shutdown].
9. Click [OK]
10. The power of the host machine is turned OFF.
11. Terminate the SST.
12. Disconnect the Cross Ethernet Cable from the machine, and connect the user's network cable to the machine.

<In case of USB flash drive>

1. Connect the USB flash drive to the PC.
2. Start up SST, and click the USB icon displayed in the target selection screen.
3. Select the drive, the model series, and the version to be written to the USB flash drive, and click [Confirm].
4. Click [Start], and after the version has been written to the USB flash drive, click [OK] and then remove the USB flash drive.
5. Terminate the SST.
6. Connect the USB flash drive to the host machine, and start the host machine with download mode in safe mode.
7. When the USB menu is displayed, press keys on the Control Panel in the order shown below.
 - [4]: Clear/Format
 - [1]: Disk Format
 - [0]: OK
 - Press any keys.
 - [C]: Return to menu
 - [Reset] : Start shutdown sequence
 - [0]: OK (The power of the host machine is turned OFF automatically.)
8. Remove the USB flash drive.
9. Turn ON the main power switch.

■ Setting the Mirroring



1. **Set the setting value for the mirroring to "1" in the following service mode.**
COPIER > OPTION > FNC-SW > W/RAID
2. **Turn OFF/ON the main power of the host machine to enable the setting value.**
3. **Make sure that the UI screen is activated correctly.**
4. **Open the Cover, and make sure that the LED blinks.**

NOTE:

Rebuilding starts approximately after 3 minutes after turning OFF and then ON the power.

- HDD 1 (Slot 1): The green LED blinks.
- HDD 2 (Slot 2): The green and red LEDs blink.

CAUTION:

Rebuild process starts after setting "1" for W/RAID. If an error occurs during the rebuild process at the initial installation the hard disk needs to be replaced. (Call service rep.), reexecute the process with the following procedure.

1. Check that the lighting red LED is HDD2.
2. Select "0" for the following service mode.
COPIER > OPTION > FNC-SW > W/RAID
3. To enable the setting value, turn OFF/ON the Main Power Supply Switch of the host machine.
4. Select "1" for the following service mode.
COPIER > OPTION > FNC-SW > W/RAID
5. To enable the setting value, turn OFF/ON the Main Power Supply Switch of the host machine.

The foregoing procedure is limited to the rebuild process at the initial installation.

An error during the rebuild process that is executed during operation is not included in the consideration.

■ Executing Auto Gradation Adjustment

When the high-capacity HDD is installed, the machine initializes its HDD, resetting the data used for auto gradation correction.

Therefore, execute full adjustment of auto gradation adjustment after installing the high-capacity HDD to enable proper images to be output.

■ Execution of the Minimum Installation Work

Be sure to execute the minimum installation work in accordance with the Setup Guide because HDD is initialized when the high-capacity HDD is installed.

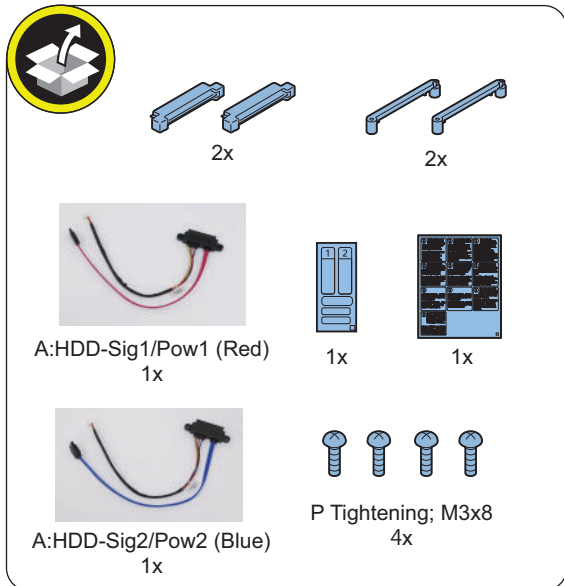
[TYPE-7] 2 Option HDDs (1TB) + Removable HDD Kit + HDD Mirroring Kit

■ Checking the Contents

<Option HDD (1TB)>



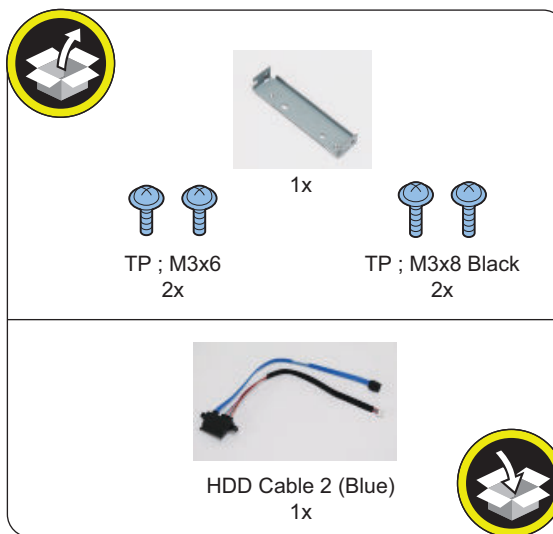
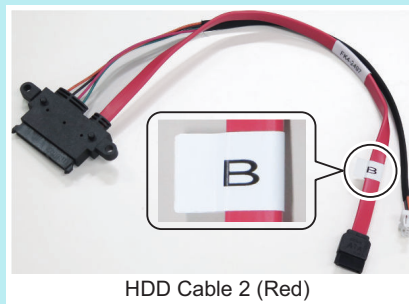
<Removable HDD Kit>



<HDD Mirroring Kit>

NOTE:

The red cable shown below may sometimes be supplied in lieu of the HDD Cable 2 (Blue).



<Others>

- Guides are included

■ Essential Items to Be Performed Before Installation

- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:

- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

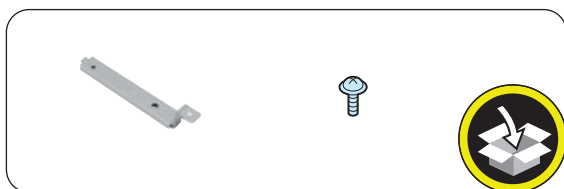
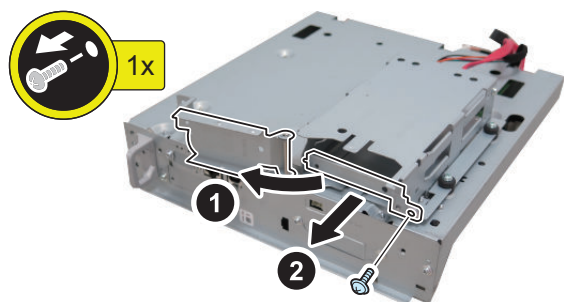
■ Installation Procedure

CAUTION:

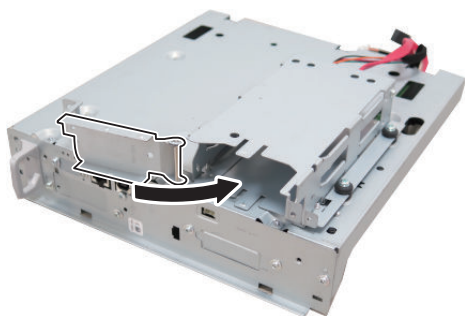
Be sure to perform "Removing the HDD (Preparation)" on page 1468 before performing the following work.

● Installing the Removable HDD Kit

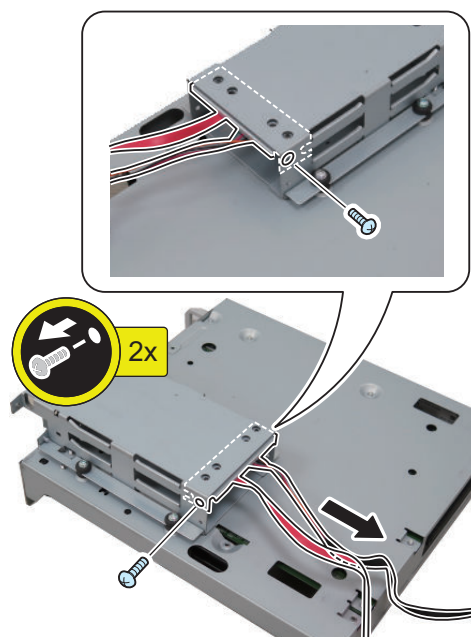
□
1.



□
2.



□
3.

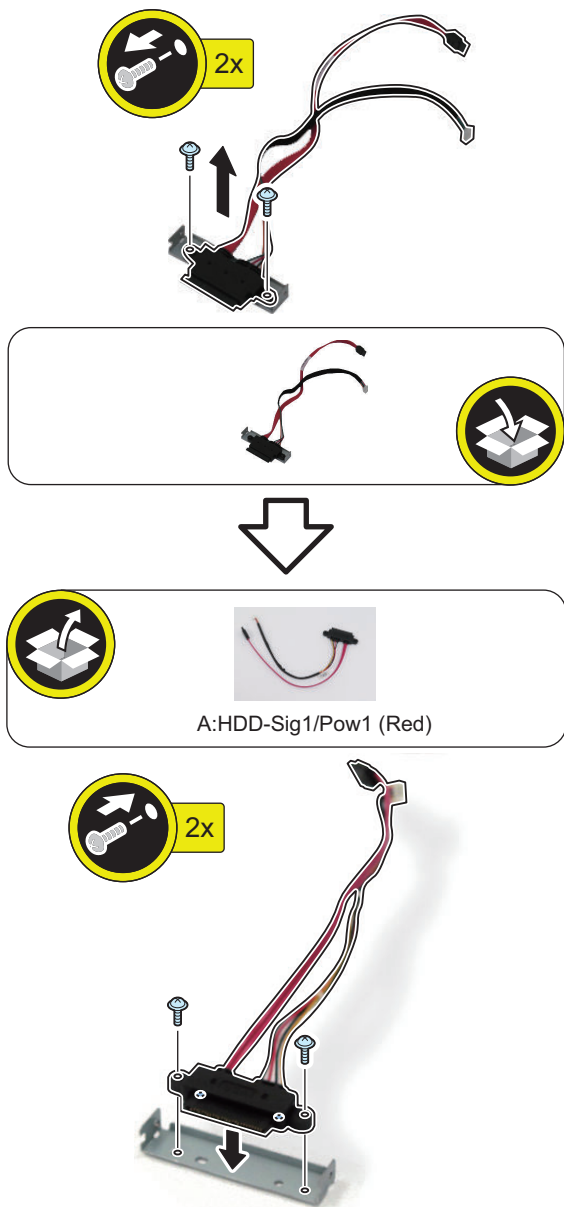


NOTE:

The removed screws will be used in step 5.

4.

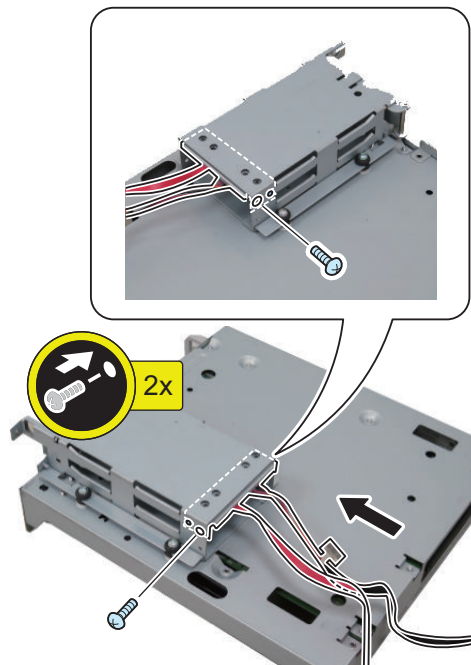
NOTE:
Remove the HDD Cable from the HDD Connector Support Plate, and replace it with the A: HDD-Sig1/Pow1 (Red)
(The removed cable will not be used).



5.

NOTE:

- Install the assembled A: HDD-Sig1/Pow1 (Red).
- Use the screws removed in step 3.



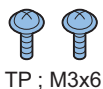
6.

NOTE:
Use the A: HDD-Sig2/Pow2 (Blue) included with the Removable HDD Kit.

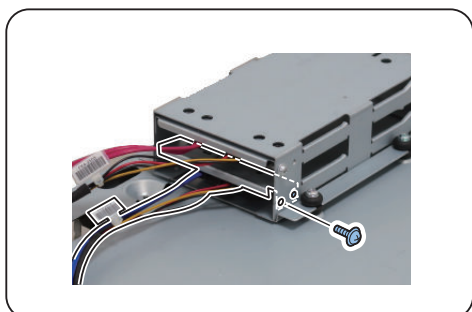


□
7.

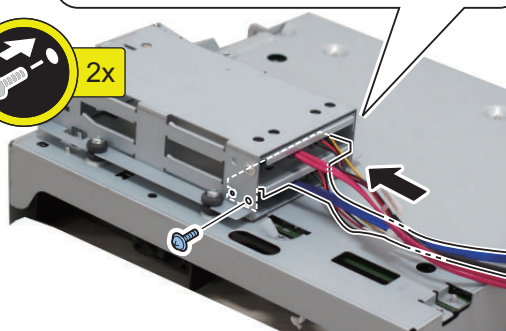
NOTE:
Install the assembled A: HDD-Sig2/Pow2 (Blue).



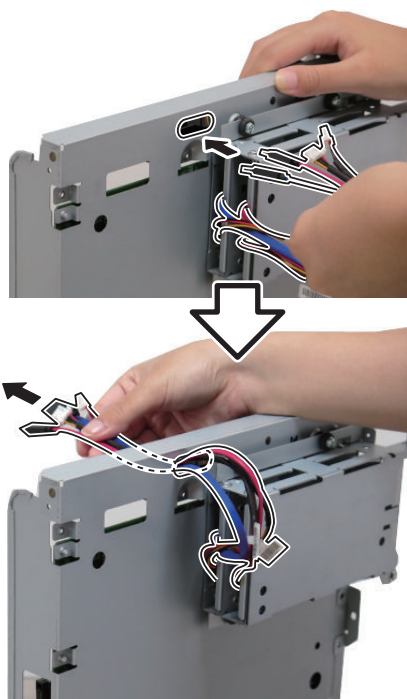
TP ; M3x6



2x



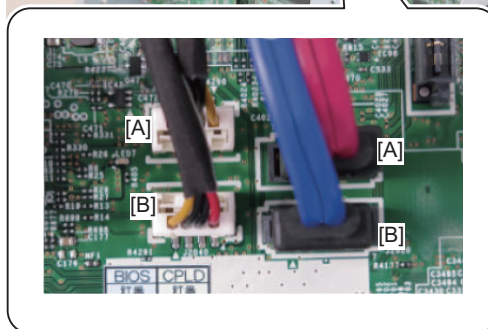
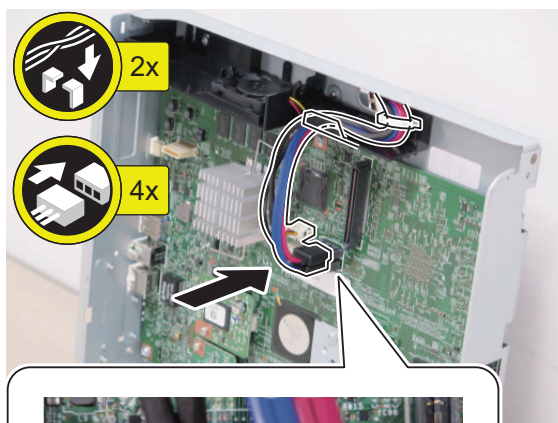
□
8.



□
9.

CAUTION:

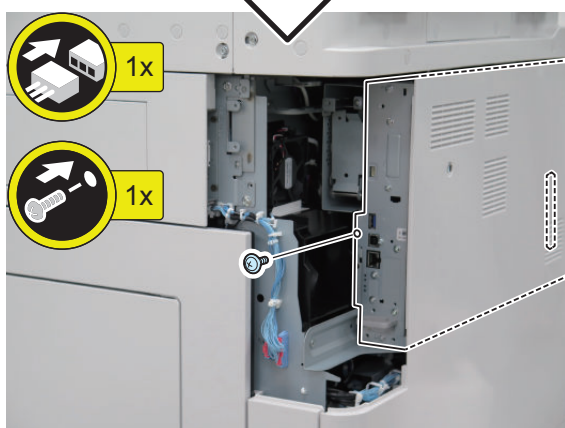
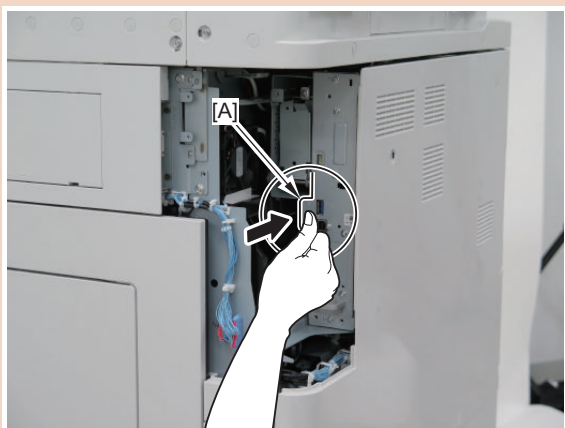
- Be sure to connect the communication cable to the correct port.
- Be sure to connect the A: HDD-Sig1/Pow1 (Red) to [A] on the Controller PCB.
- Be sure to connect the A: HDD-Sig2/Pow2 (Blue) to [B] on the Controller PCB.



10.

CAUTION:

- Be sure to insert the Main Controller PCB 1 until it stops.
- Be sure to push [A] part hard to install it, otherwise the connector may not be connected properly.

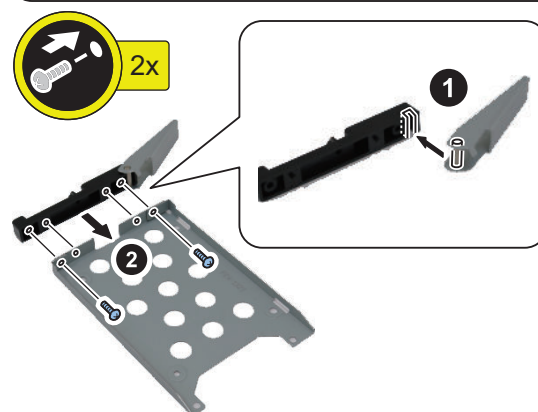


• **Assembling and Installing the Option HDD**

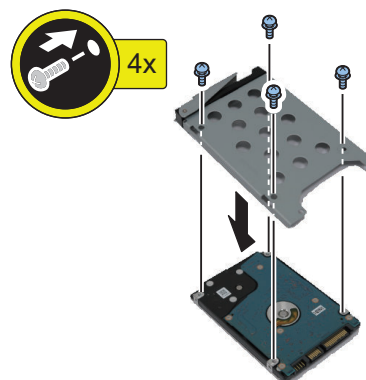
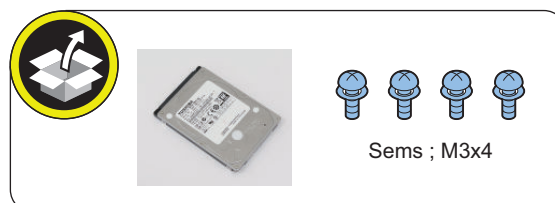
NOTE:

Install the 2 Option HDDs according to the steps 1 to 4.

1.



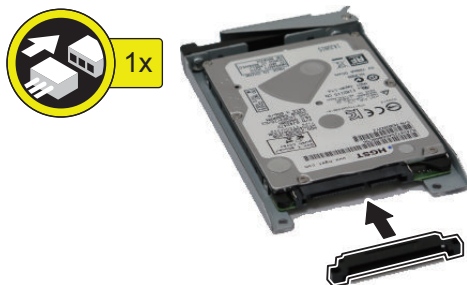
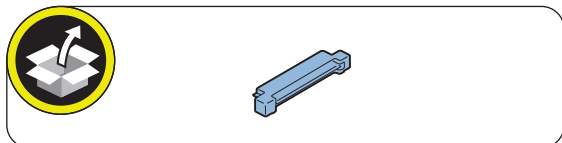
2.



□
3.

CAUTION:

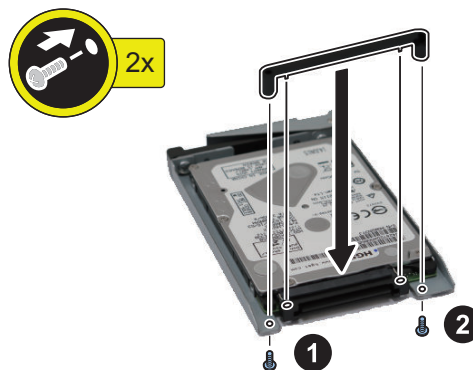
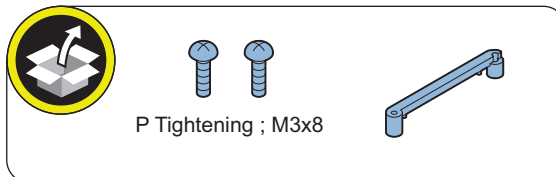
Be sure that there is no gap between the HDD Connector and the Conversion Connector.



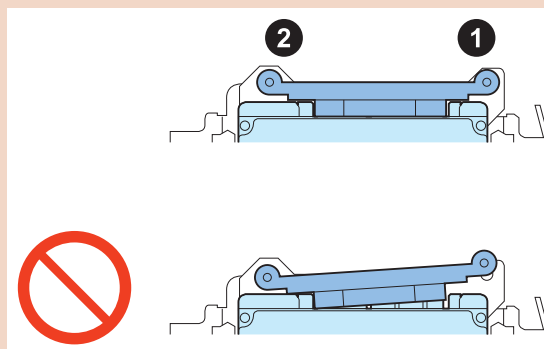
□
4.

NOTE:

Use the 2 screws (P Tightening; M3x8) included with the Removable HDD Kit.

**CAUTION:**

- Be sure to firmly hold the Connector Fixation Block when tightening the screws.
- Be sure to follow the correct order to tighten the screws, otherwise the Conversion Connector may not be connected properly, resulting in poor contact.



5.

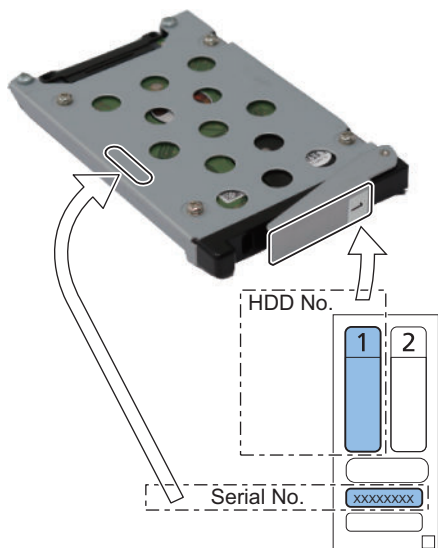
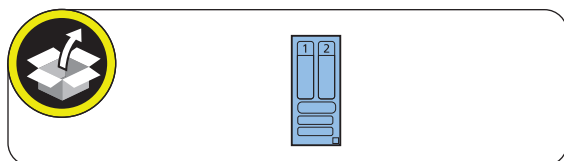
NOTE:

Write down the serial number of the host machine to the label for recording the number, and affix it to the area indicated in the figure.

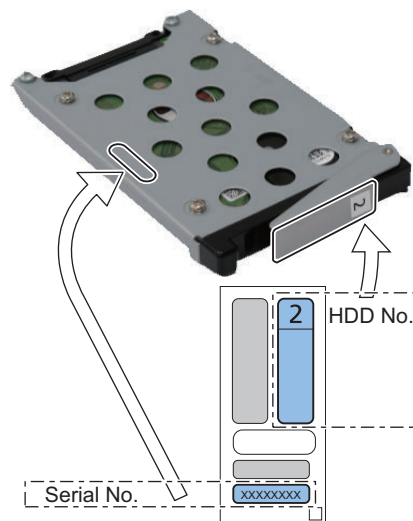
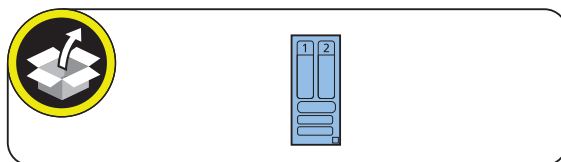
NOTE:

- Affix the HDD No.1 to the HDD to be installed to the Slot 1 (Left).
- Affix the HDD No.2 to the HDD to be installed to the Slot 2 (Right).

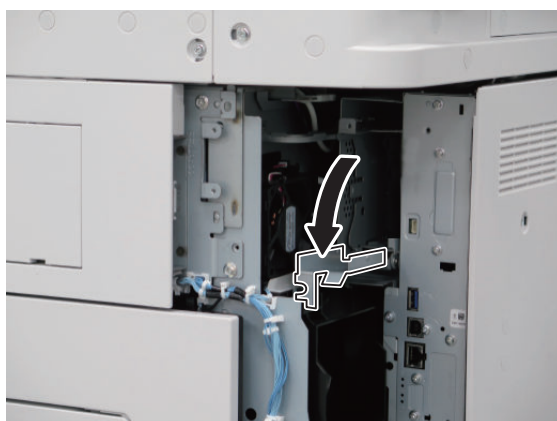
< When affixing HDD No.1 >



< When affixing HDD No.2 >



6.

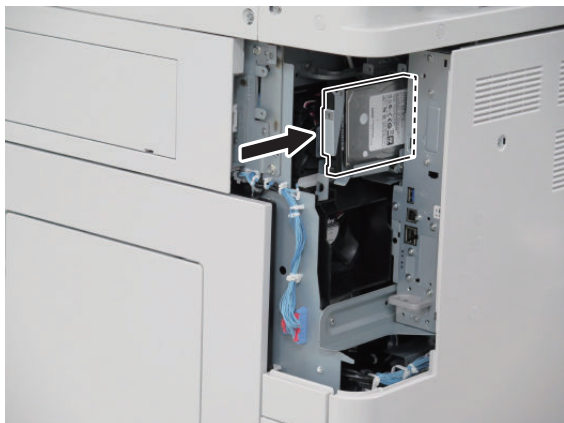


7.

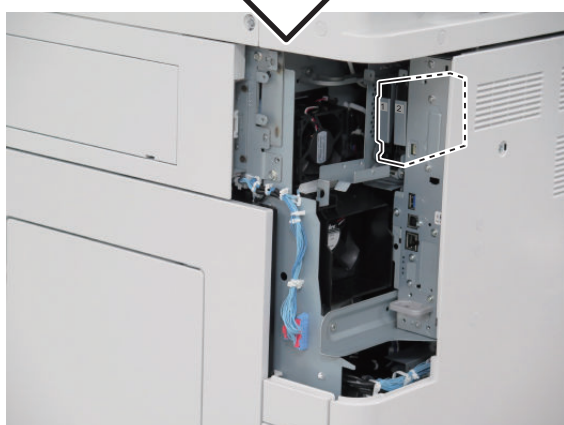
NOTE:

- Be sure to install the HDD No.1 to the Slot 1 (Left).
- Be sure to install the HDD No.2 to the Slot 2 (Right).

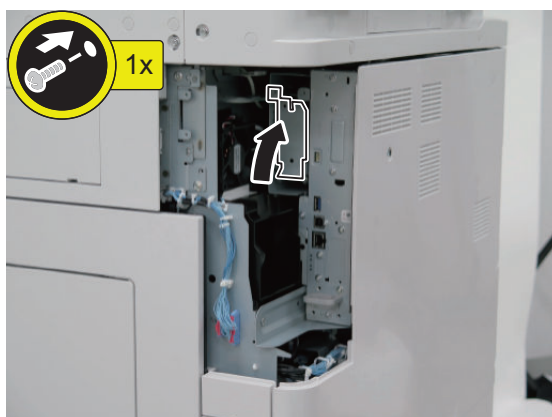
< HDD No.1 >



< HDD No.2 >



8.



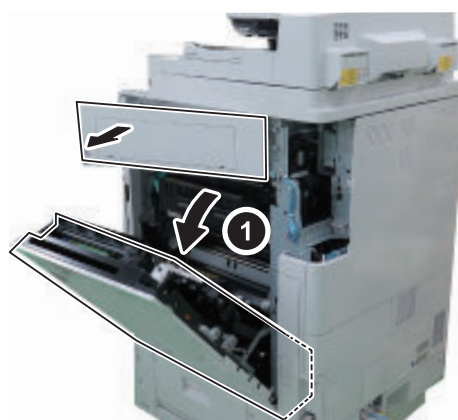
9.

Be sure to request the user to padlock the removable HDD to discourage theft.

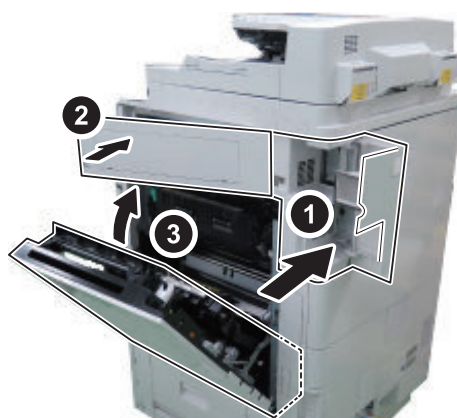
10.

NOTE:

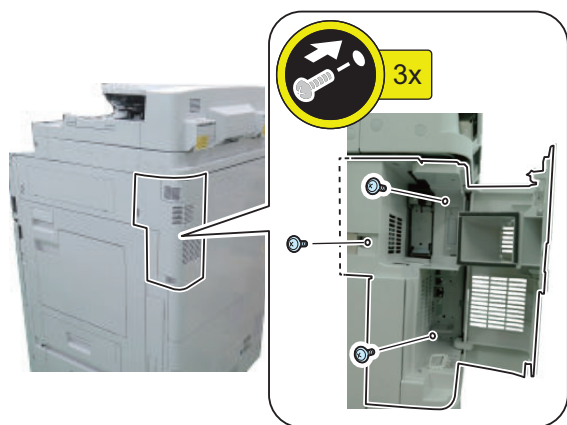
The Right Upper Cover will open at the same time.



11.

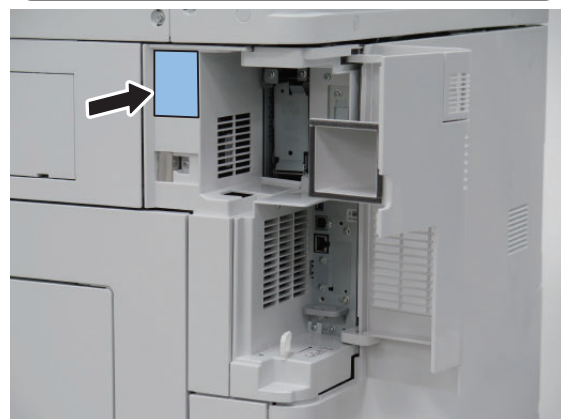
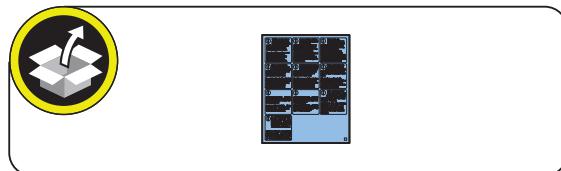


□
12.

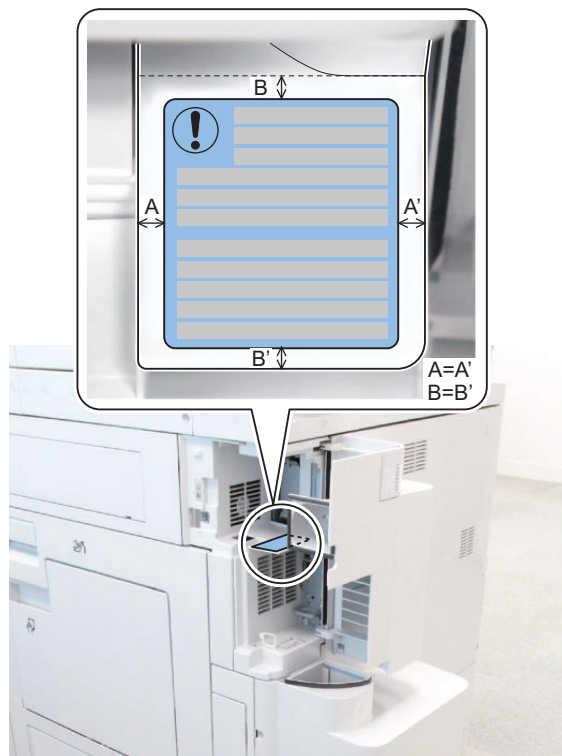
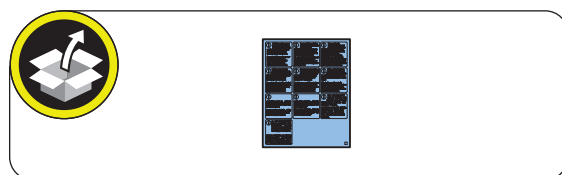


□
13.

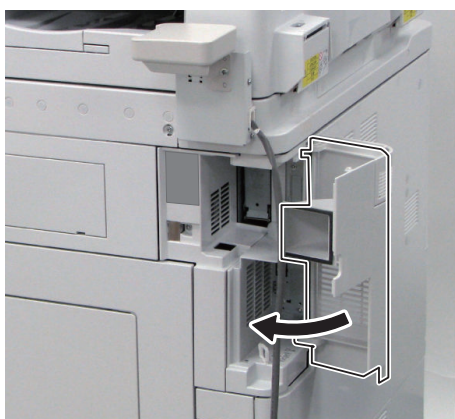
NOTE:
Affix the HDD Caution Label in the appropriate language by aligning it with the upper left corner.



< For the Duct Model (EUR only) >



14.



■ HDD Initialization Procedure

1. Requirements

1. PC
Service Support Tool in the version that supports this host machine must be installed.
2. Cross Ethernet Cable (when SST is used)

2. Preparing for the Installation of the System Software of Host machine

1. If both PC and the machine are on, turn them off.
2. Connect the PC and the host machine using an Cross Ethernet cable. (when SST is used)
3. Turn on the PC.

3. Registering the system software

1. Insert the latest System Software into the PC using the SST.
2. Start the SST.
3. Click 'Register Firmware'.
4. Select the drive where the system software has been inserted, and click the [SEARCH] button.
5. Click the [REGISTER] button.
6. Click [OK].

4. Initializing HDD

<In case of SST>

1. Start the host machine with download mode in safe mode.
2. Start the SST.
3. Select the model. Then, select [Single] and click [Start].
4. Click [Format HDD].
5. Select [All], and click [Start].
6. Click [Execute Format].
7. The Format is executed.
8. Select [Shutdown/Restart], and click [Shutdown].
9. Click [OK]
10. The power of the host machine is turned OFF.
11. Terminate the SST.
12. Disconnect the Cross Ethernet Cable from the machine, and connect the user's network cable to the machine.

<In case of USB flash drive>

1. Connect the USB flash drive to the PC.
2. Start up SST, and click the USB icon displayed in the target selection screen.
3. Select the drive, the model series, and the version to be written to the USB flash drive, and click [Confirm].
4. Click [Start], and after the version has been written to the USB flash drive, click [OK] and then remove the USB flash drive.
5. Terminate the SST.
6. Connect the USB flash drive to the host machine, and start the host machine with download mode in safe mode.
7. When the USB menu is displayed, press keys on the Control Panel in the order shown below.
 - [4]: Clear/Format
 - [1]: Disk Format
 - [0]: OK
 - Press any keys.
 - [C]: Return to menu
 - [Reset] : Start shutdown sequence
 - [0]: OK (The power of the host machine is turned OFF automatically.)
8. Remove the USB flash drive.
9. Turn ON the main power switch.

■ Setting the Mirroring



1. **Set the setting value for the mirroring to "1" in the following service mode.**
COPIER > OPTION > FNC-SW > W/RAID
2. **Turn OFF/ON the main power of the host machine to enable the setting value.**
3. **Make sure that the UI screen is activated correctly.**
4. **Open the Cover, and make sure that the LED blinks.**

NOTE:

Rebuilding starts approximately after 3 minutes after turning OFF and then ON the power.

- HDD 1 (Slot 1): The green LED blinks.
- HDD 2 (Slot 2): The green and red LEDs blink.

CAUTION:

Rebuild process starts after setting "1" for W/RAID. If an error occurs during the rebuild process at the initial installation the hard disk needs to be replaced. (Call service rep.), reexecute the process with the following procedure.

1. Check that the lighting red LED is HDD2.
2. Select "0" for the following service mode.
COPIER > OPTION > FNC-SW > W/RAID
3. To enable the setting value, turn OFF/ON the Main Power Supply Switch of the host machine.
4. Select "1" for the following service mode.
COPIER > OPTION > FNC-SW > W/RAID
5. To enable the setting value, turn OFF/ON the Main Power Supply Switch of the host machine.

The foregoing procedure is limited to the rebuild process at the initial installation.

An error during the rebuild process that is executed during operation is not included in the consideration.

■ Executing Auto Gradation Adjustment

When the high-capacity HDD is installed, the machine initializes its HDD, resetting the data used for auto gradation correction.

Therefore, execute full adjustment of auto gradation adjustment after installing the high-capacity HDD to enable proper images to be output.

■ Execution of the Minimum Installation Work

Be sure to execute the minimum installation work in accordance with the Setup Guide because HDD is initialized when the high-capacity HDD is installed.

Cassette Heater Unit

Points to Note at Installation

CAUTION:

Points to Note When the Cassette Feeding Unit or High Capacity Cassette Feeding Unit Is Not Installed:
 Since the machine will contain heat at its bottom if this equipment is installed, be sure to avoid installation at locations where heat resistance is low.

CAUTION:

Marked portion:
 When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.



NOTE:

Although pictures or illustrations used for explanation may differ from the actual things, the procedure is the same.

Essential Items to Be Performed Before Installation

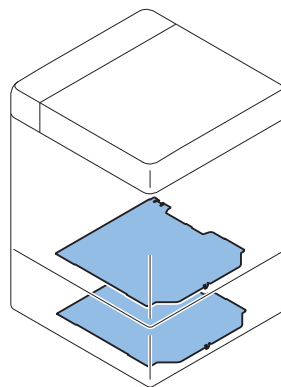
- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:

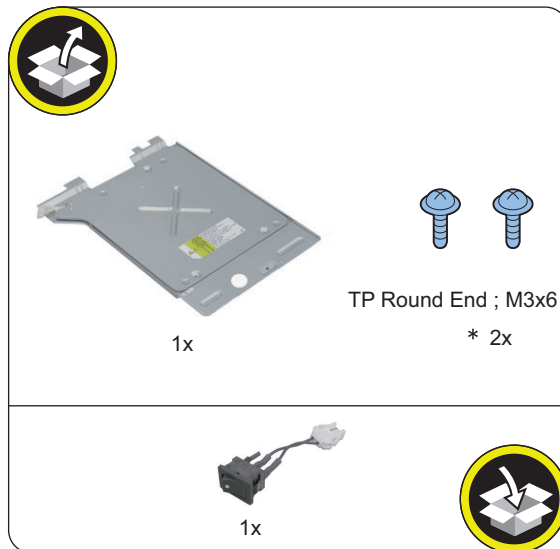
- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Outline Drawing



Checking the Contents (Cassette Heater Unit-41)



NOTE:

*Host Machine : Use 1 of them. Cassette Feeding Unit or High Capacity Cassette Feeding Unit: Use 2 of them.

Checking the Parts to be Installed

Cassette Heater Unit
 Prepare the following parts because each part of the Cassette Heater Unit is assigned as service part.

NO.	Parts name	Parts Number.	Q'ty
[1]	Cassette Heater Assembly	FM1-B278-000	1 pc.
[2]	Screw (TP Round End; M3x6)	XA9-2010-000	2 pcs.

Installation Procedure

■ Removing the Cassette

● In the Case of Host Machine/Cassette Feeding Unit

NOTE:

In the case of host machine, remove the Cassette 1 and 2. In the case of the Cassette Feeding Unit, remove the Cassette 3 and 4.

□

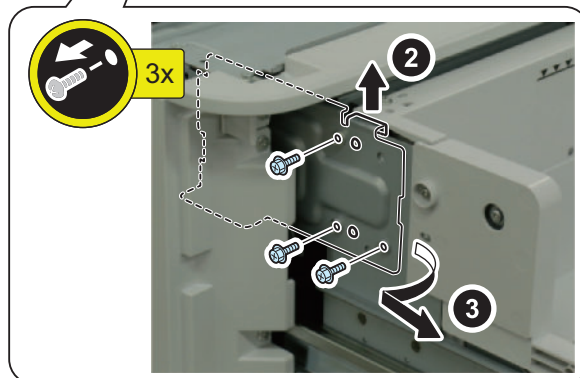
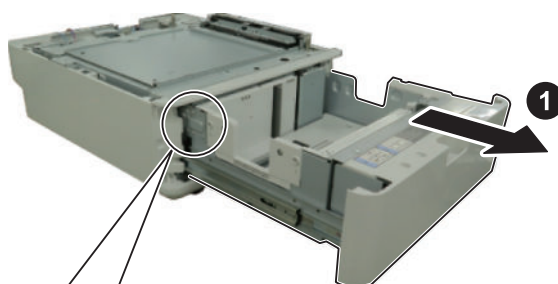
1.



● In the Case of High Capacity Cassette Feeding Unit

□

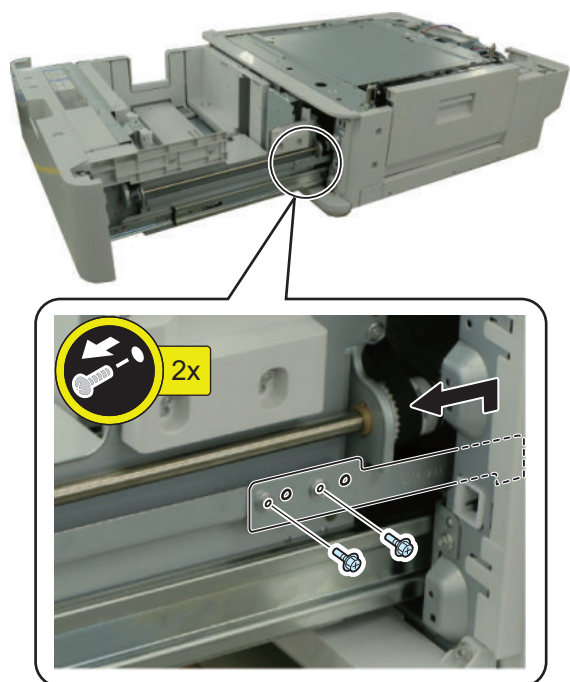
1.



NOTE:

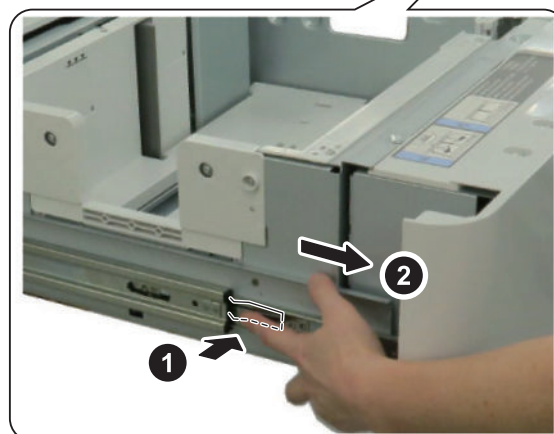
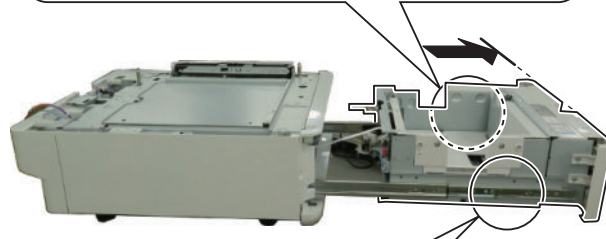
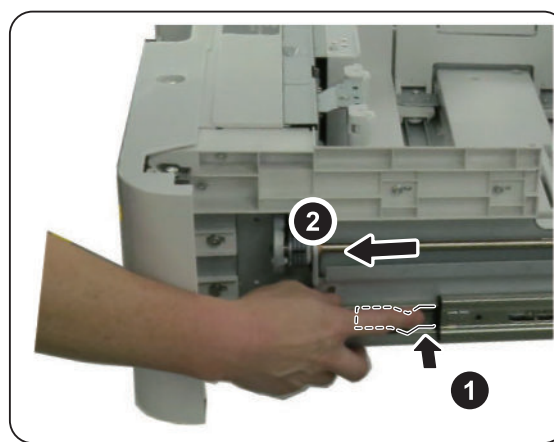
The removed parts will be used in "Installing the Cassette".

□
2.

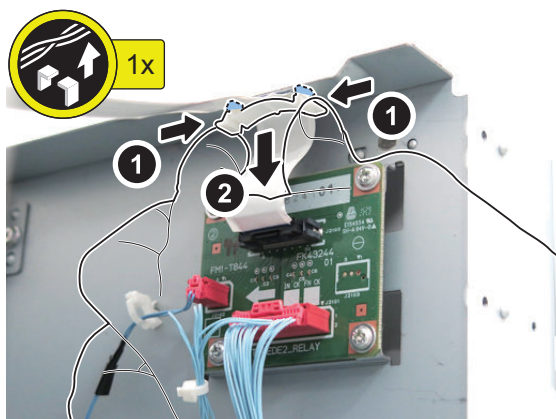


NOTE:
The removed parts will be used in "Installing the Cassette".

□
3.



□
4.

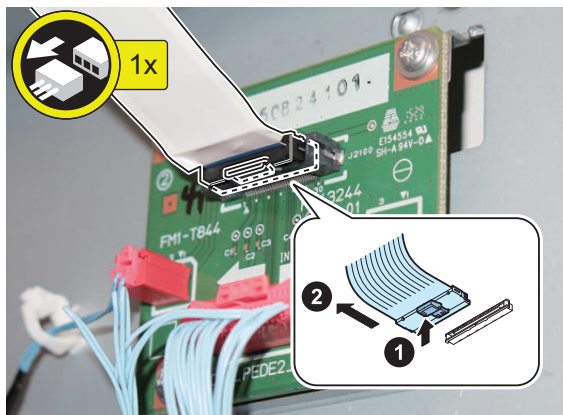


NOTE:
The removed parts will be used in "Installing the Cassette".

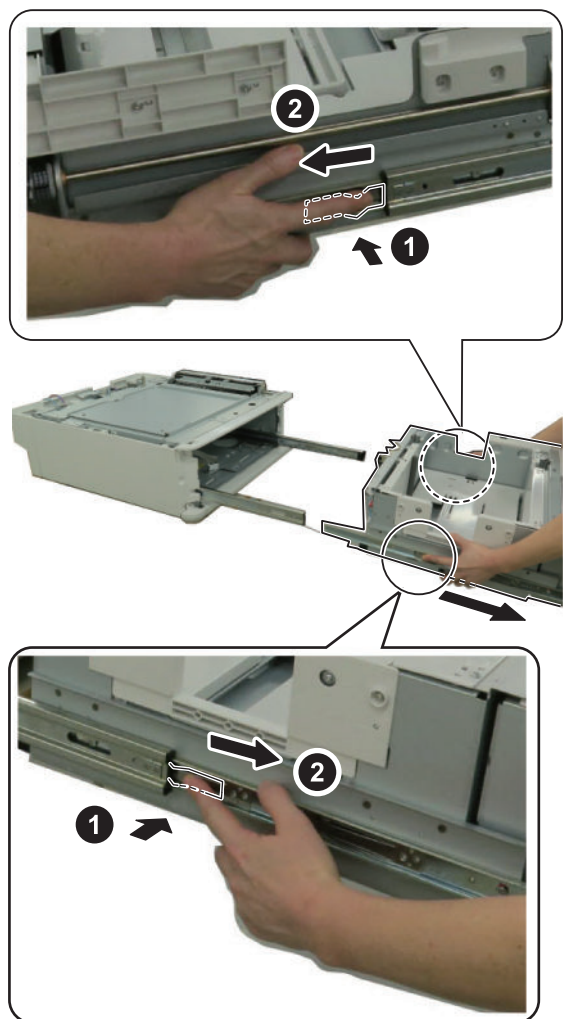
□
5.

CAUTION:

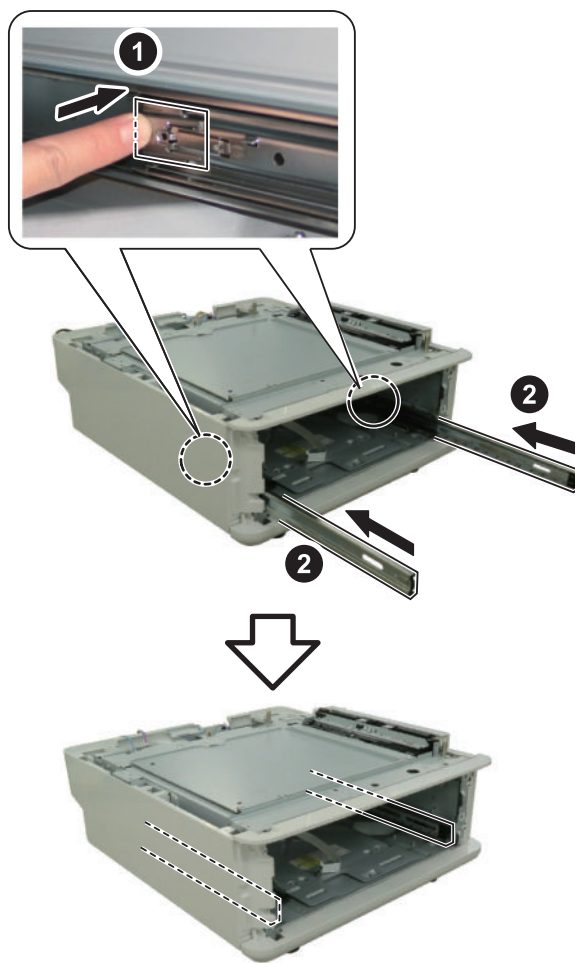
Be sure to release the lock and then disconnect the FCC Connector.



□
6.

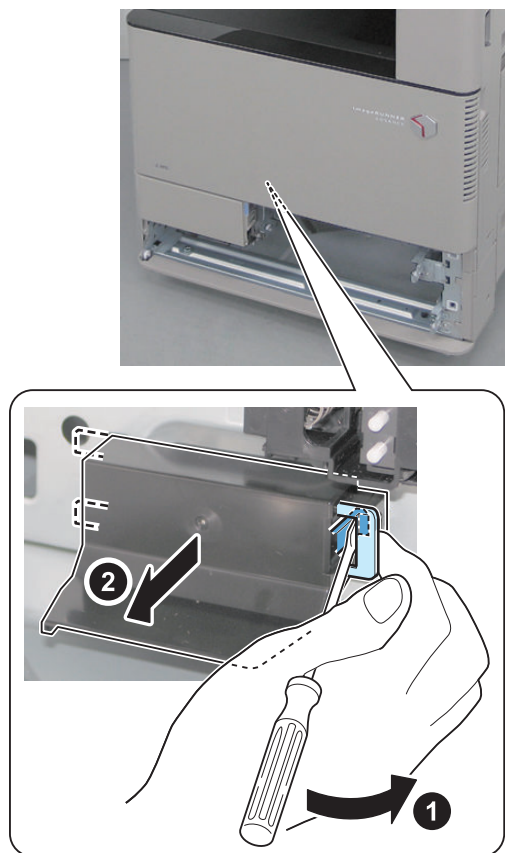


□
7.

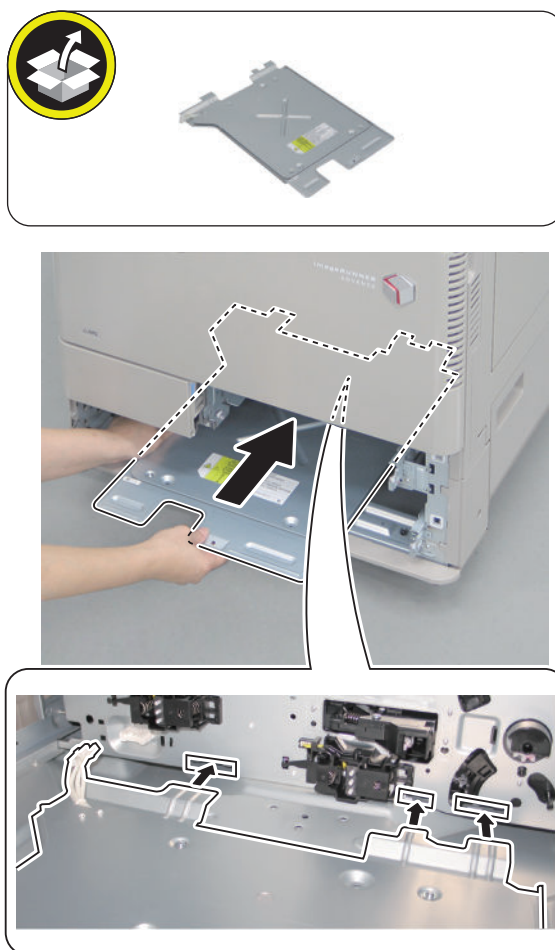


■ Installing the Cassette Heater

□
1.

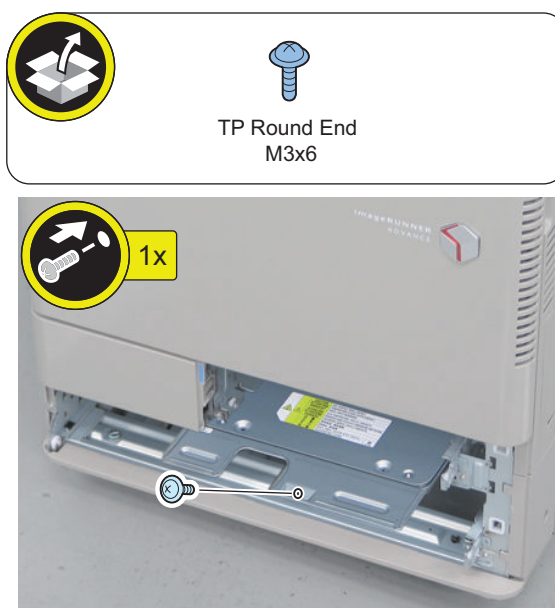


□
2.

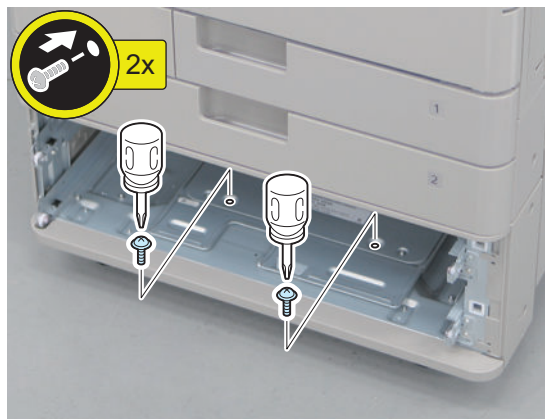
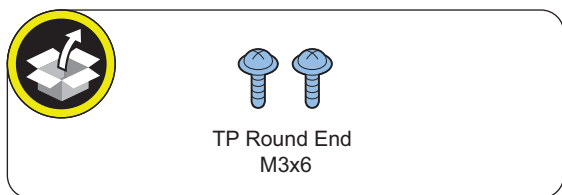


□
3.

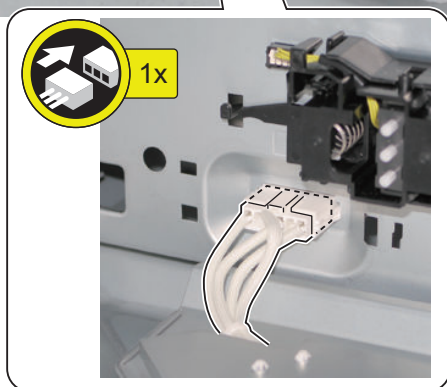
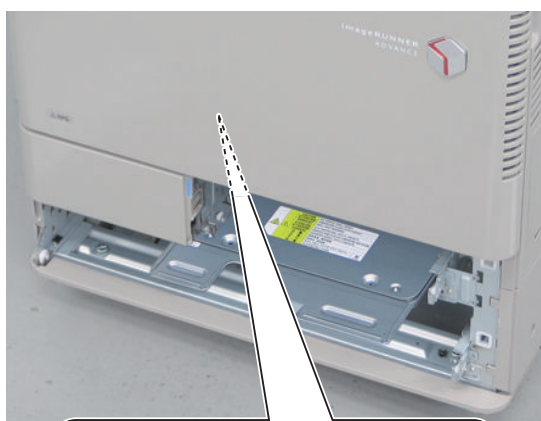
< In the case of Host machine >



< In the case of Cassette Feeding Unit or High Capacity Cassette Feeding Unit >



4.



□

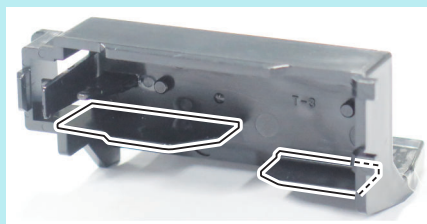
5.

NOTE:
The Heater Connector Cover comes in different shapes.

Without ribs



With ribs



CAUTION:

- When the Heater Connector Cover has ribs, those ribs may interfere with cables.
- Be sure to run the cables as shown in the figure below before installing the Connector Cover.

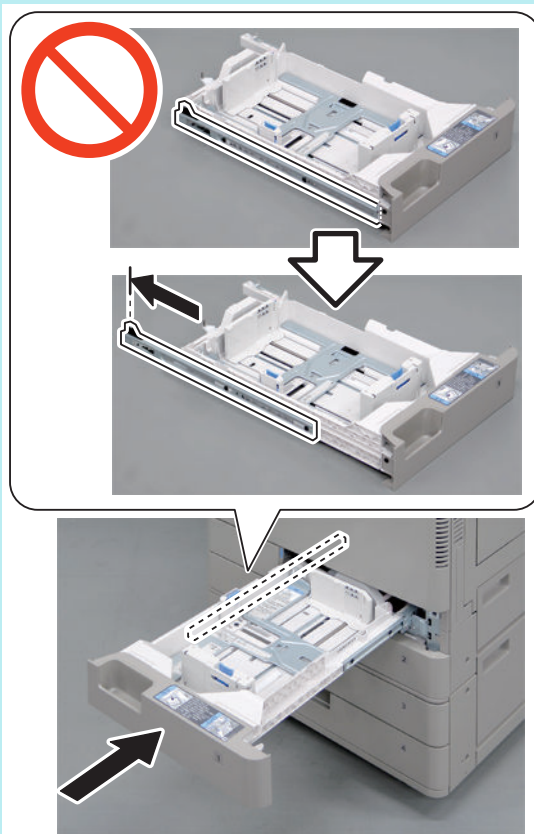


■ **Installing the Cassette**

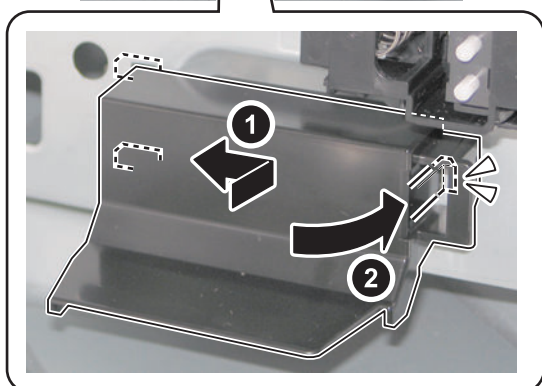
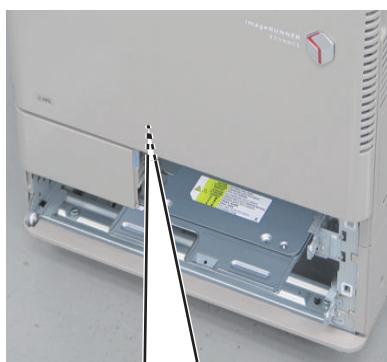
● **In the Case of Host Machine/Cassette Feeding Unit**

NOTE:

In the case of the Cassette 1, pull out the rail and slide it into the host machine.

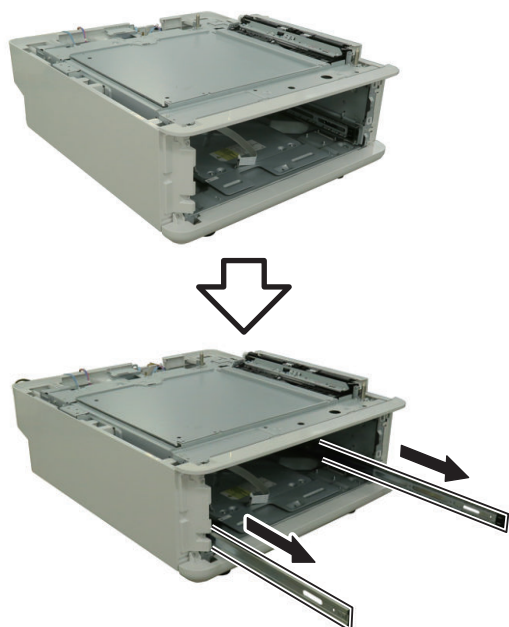


□
1.



• In the Case of High Capacity Cassette Feeding Unit

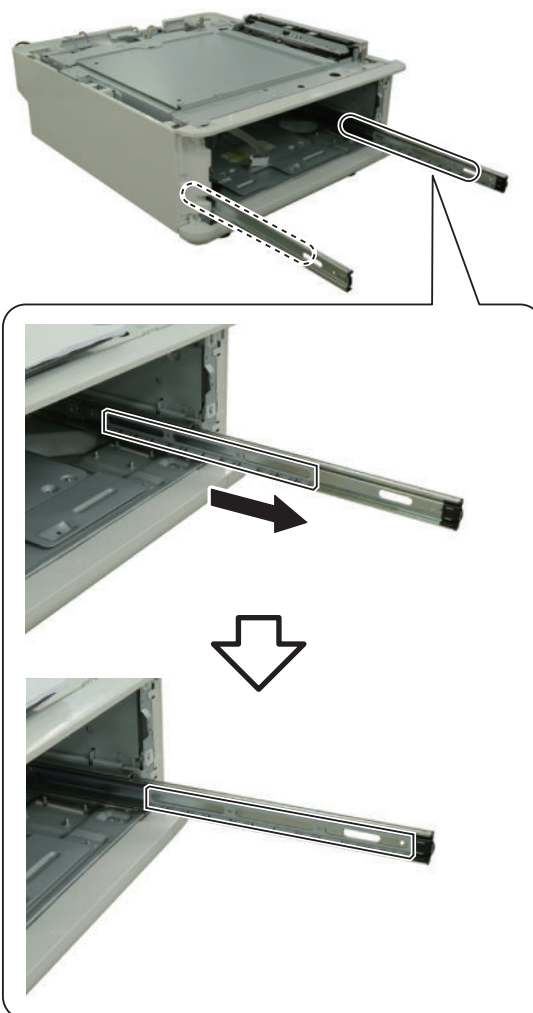
□
1.



□
2.

NOTE:

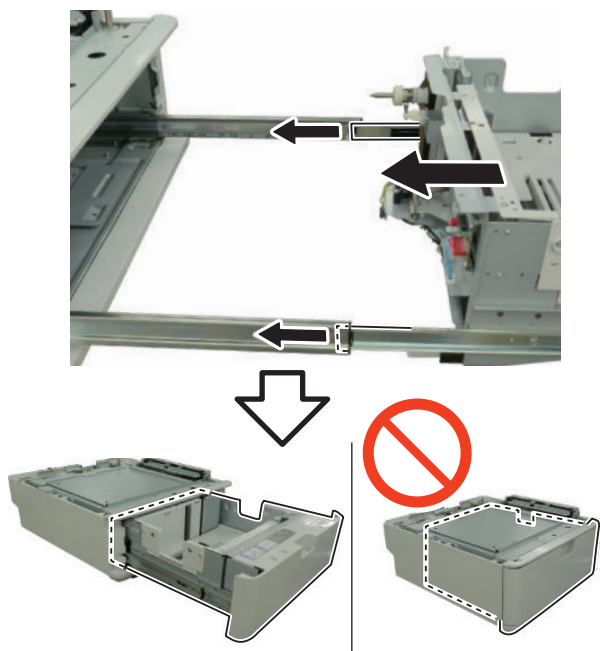
Slide the inner rails of the rails you pulled out toward the front side to ease insertion of the cassette.



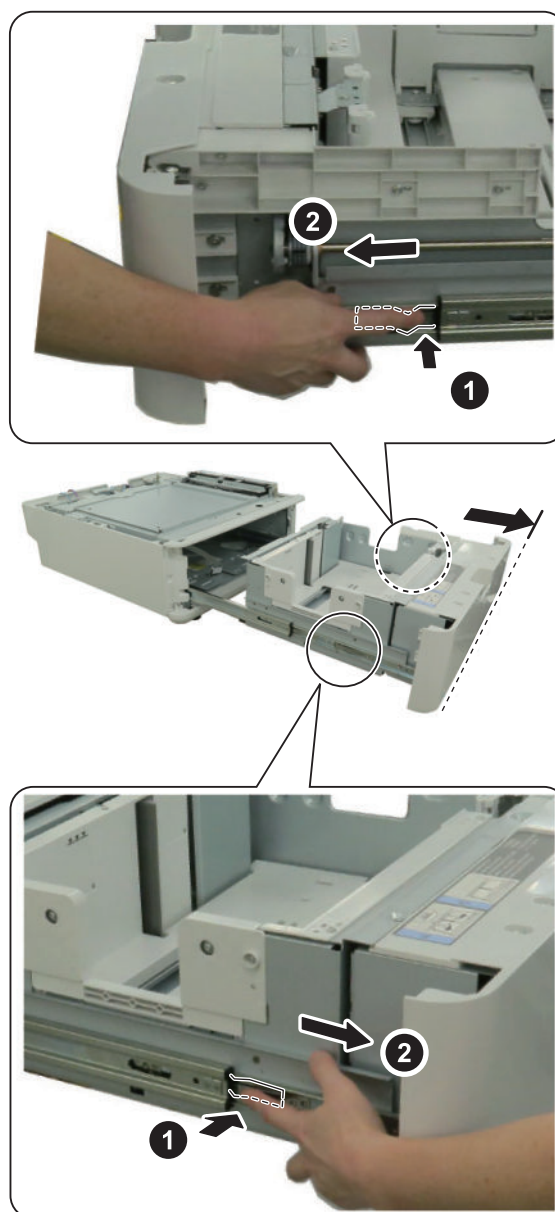
□
3.

CAUTION:

- Align the rails and push in the cassette to the first lock position.
- Do not push in the cassette all the way because the Flat Cable is not connected.

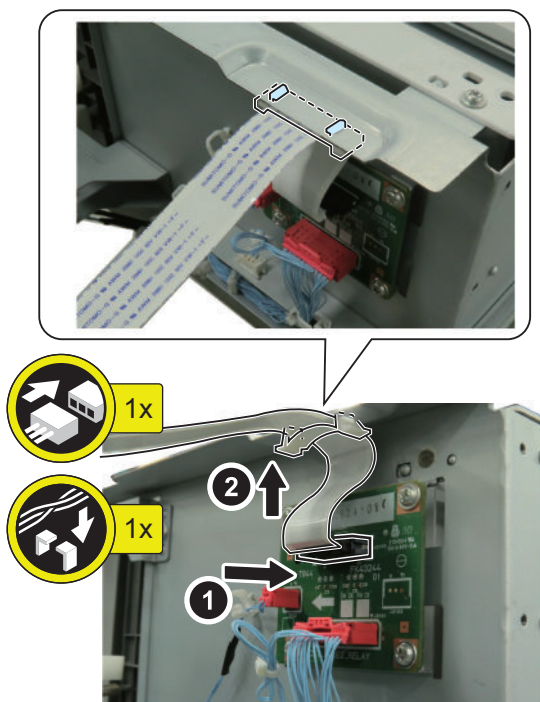


□
4.

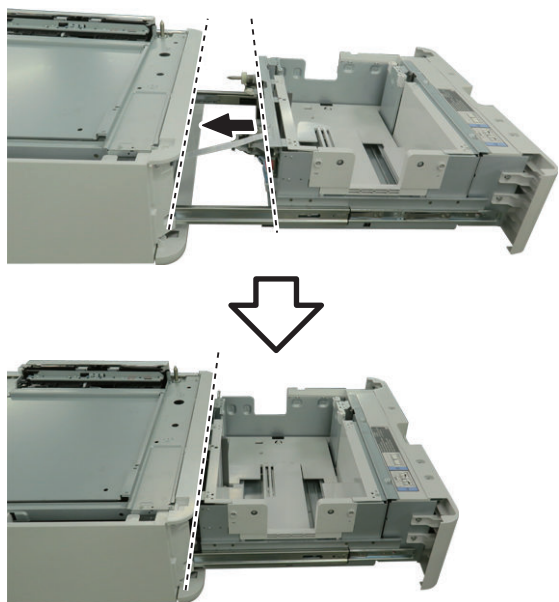


□
5.

NOTE:
Use the parts removed in "Removing the Cassette".



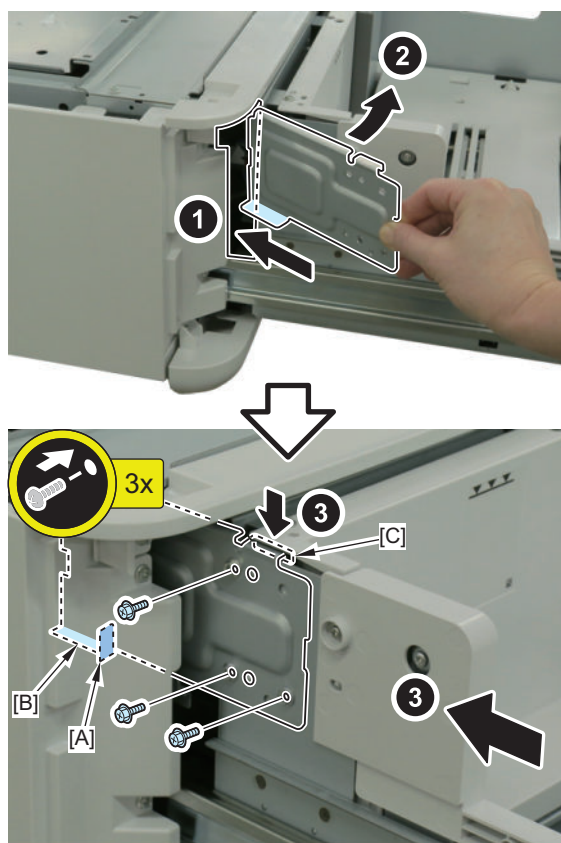
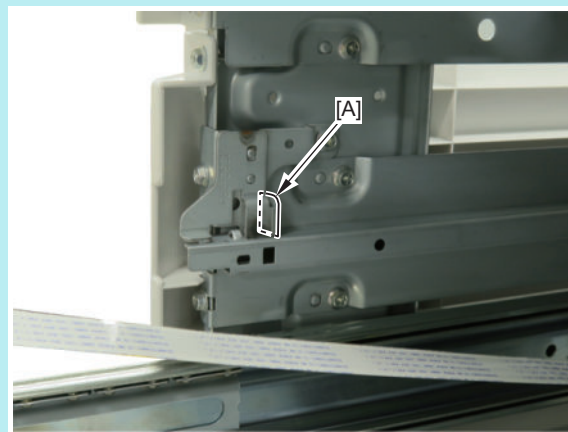
□
6.



□
7.

NOTE:

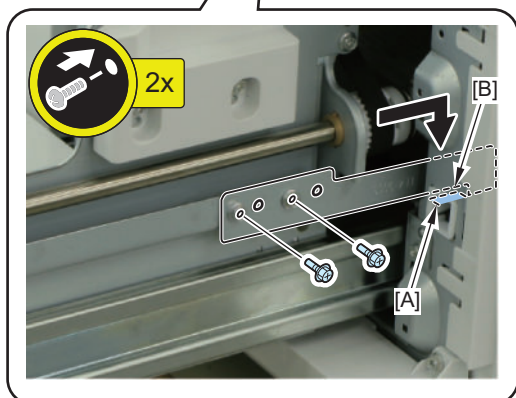
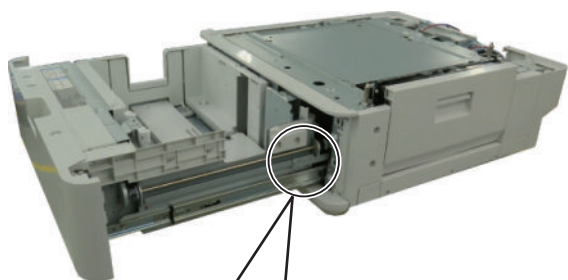
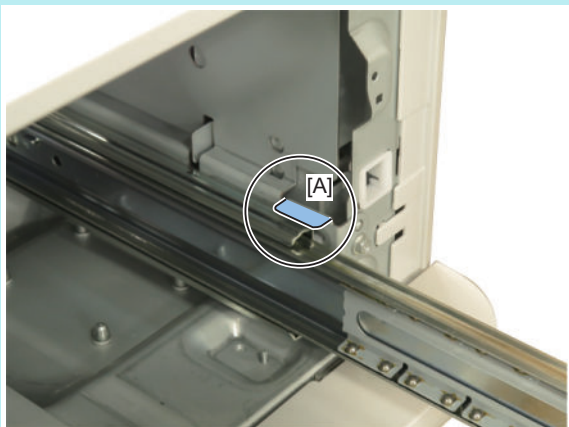
- Use the parts removed in "Removing the Cassette".
- Hook the [B] part of the plate on the left side on the [A] part of the plate.
- Push in the cassette and align the boss when hanging the hook [C].



8.

NOTE:

- Use the parts removed in "Removing the Cassette".
- Hook the [B] part of the plate on the right side on the [A] part of the plate.



9.



■ Checking the Environment Heater Switch

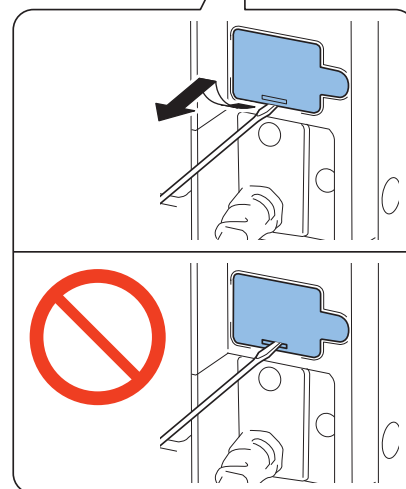
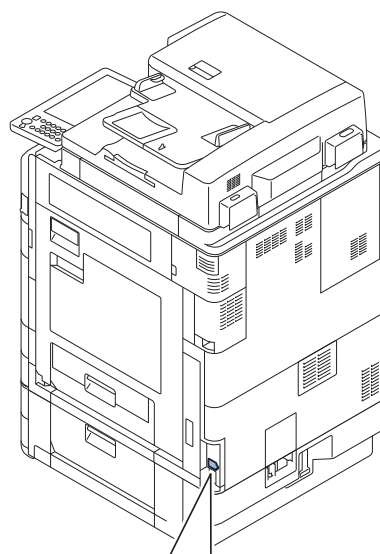
1.

NOTE:

If the Environment Heater Switch Cover is installed, remove the cover.

CAUTION:

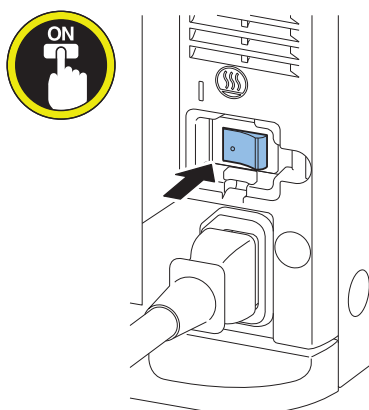
Do not insert the screwdriver into the hole when removing the cover.



NOTE:

The removed Environment Heater Switch Cover will be used in step 3.

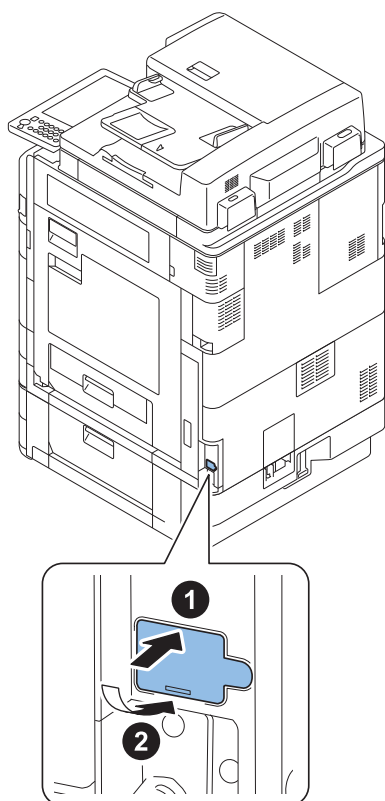
□
2.



□
3.

NOTE:

Use the Environment Heater Switch Cover removed in step 1 or the Environment Heater Switch Cover included with the host machine.



□
4.

5.

Connect the power plug of the host machine to the outlet.

Turn ON the main power switch.

Super G3 FAX Board-AS1

Product Name

Safety regulations require the product's name to be registered. In some regions where this product is sold, the following name may be registered instead.

- F632501

Points to Note at Installation

- When installing the Super G3 2nd Line Fax Board and this equipment at the same time, after checking "Checking the Contents", and install them following the Installation Procedure for Super G3 2nd Line Fax Board.
- For "Checking the Operation", refer to this document.

Essential Items to Be Performed Before Installation

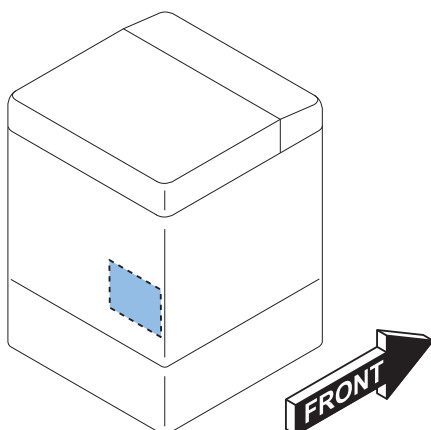
- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:



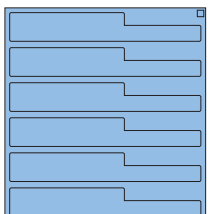

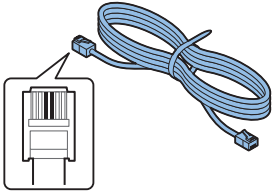
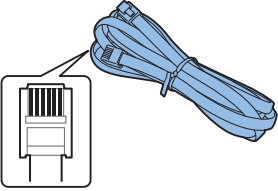
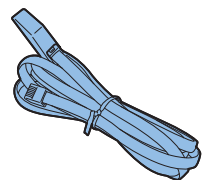
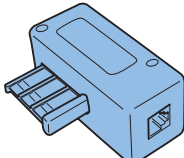
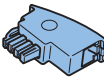
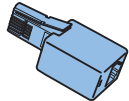

- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Outline Drawing



Checking the Contents

<input type="checkbox"/> [1] FAX Unit X 1 	<input type="checkbox"/> [2] Screw (TP; M3x4 Black) X 1 
<input type="checkbox"/> [3] Modular Label X 1 	<input type="checkbox"/> [4] Fax Approval Label X 1 Included for USA and Taiwan 
<input type="checkbox"/> [5] Telephone Cord (2 Contact type) X 1 	<input type="checkbox"/> [6] Telephone Cord (6 Contact type) (only for Europe) X 1 
<input type="checkbox"/> [7] PTT Cable (only for Asia) X 1 	<input type="checkbox"/> [8] PTT Plug (Only for France) X 1 
<input type="checkbox"/> [9] PTT Plug (Only for Germany) X 1 	<input type="checkbox"/> [10] PTT Plug (Only for U.K.) X 1 
<input type="checkbox"/> [11] Modular Cover (only for Europe) X 1 	

* These are not used with this machine.

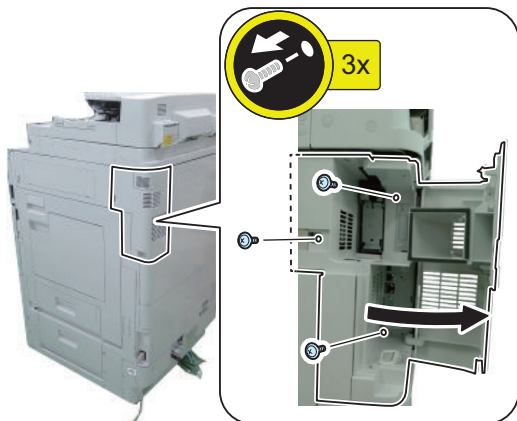
< Others >

- Including guides

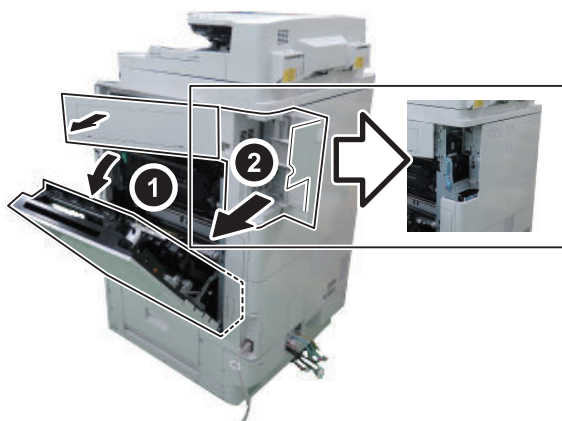
Installation Procedure



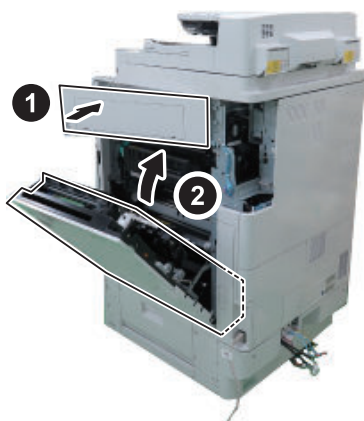
1. Open the Right Rear Cover 1 and remove the 3 screws.



2. Open the Right Lower Cover (the Right Upper Cover will open at the same time), and remove the Right Rear Cover 1.



3. Close the Right Upper Cover and the Right Lower Cover.

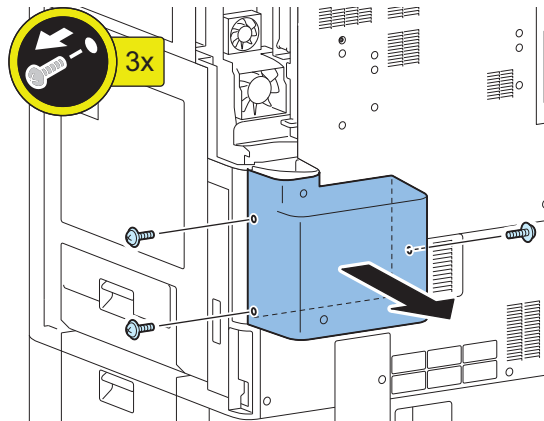


NOTE:

This step is for the Duct Model for EUR only.

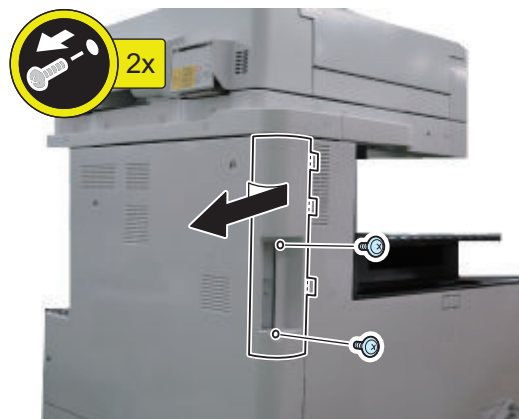
4. Remove the Duct Lower Cover.

- 3 Screws



5. Remove the Rear Upper Left Cover.

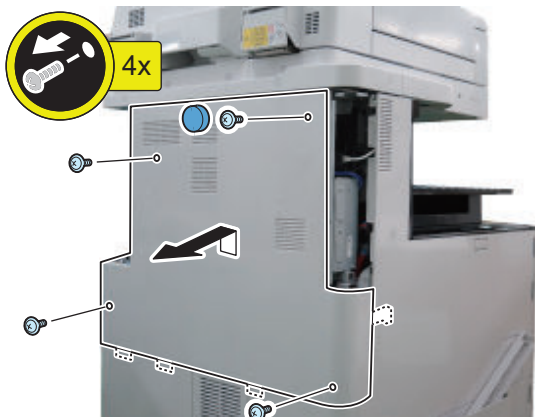
- 2 Screws
- 3 Protrusions





6. Remove the Rear Upper Cover.

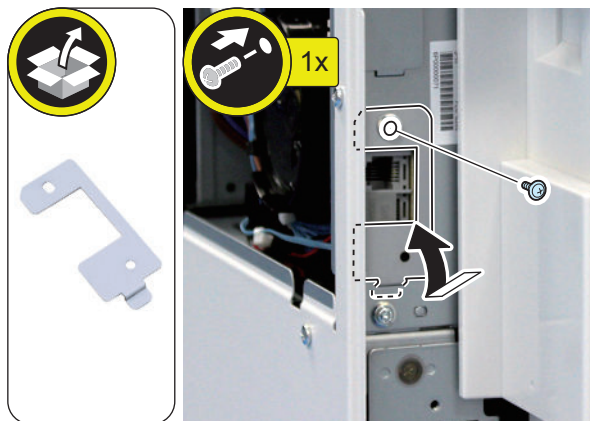
- 1 Rubber Cap
- 4 Screws
- 1 Claw
- 3 Protrusions



NOTE:
This step is only for Europe.

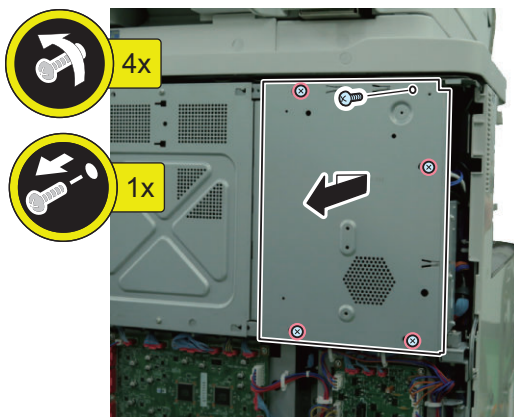
9. Install the Modular Cover.

- 1 Protrusion
- 1 Screw (use the screw removed in the previous step)



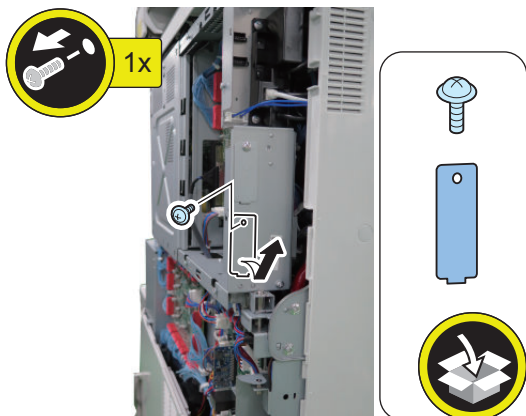
7. Remove the Controller Box Cover.

- 4 Screws (to loosen)
- 1 Screw (to remove)



8. Remove the Face Cover. (The removed parts will not be used.)

- 1 Screw (used in the next step only in EUR)
- 1 Protrusion



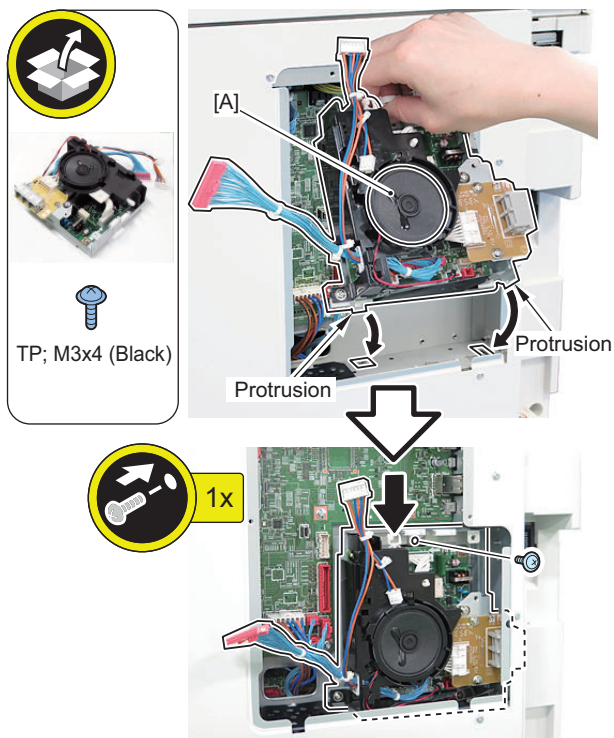


10. Remove the tape and, install the Fax Unit.

- 2 Protrusions
- 1 Screw (TP; M3x4: Black)

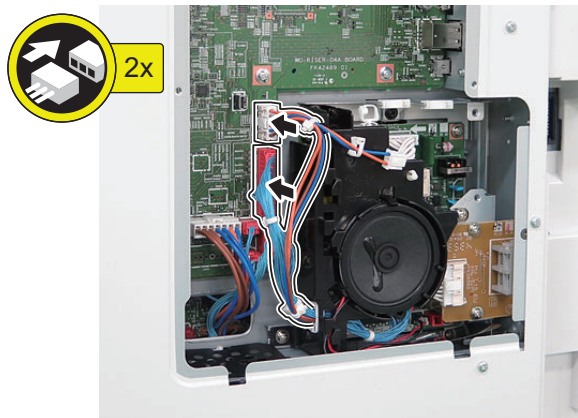
CAUTION:

- Be careful not to damage the [A] part of the speaker as the wiring may be broken.
- Be sure to tighten the screw while holding the FAX Unit.
- After tightening the screw of the FAX Unit, check for any backlash. If there is backlash, tighten the screw again with the protrusion precisely fitted.



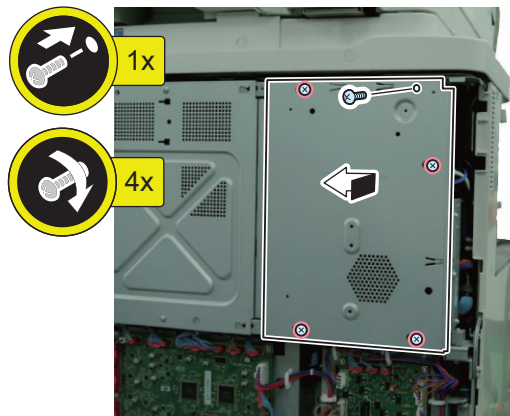
11. Connect the 2 cables of the FAX Unit.

- 2 Connectors



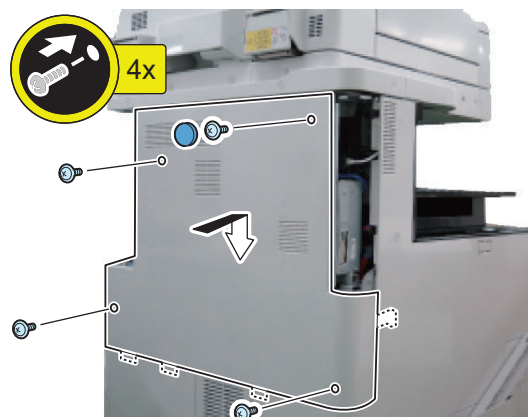
12. Install the Controller Box Cover.

- 1 Screw (to install)
- 4 Screws (to tighten)



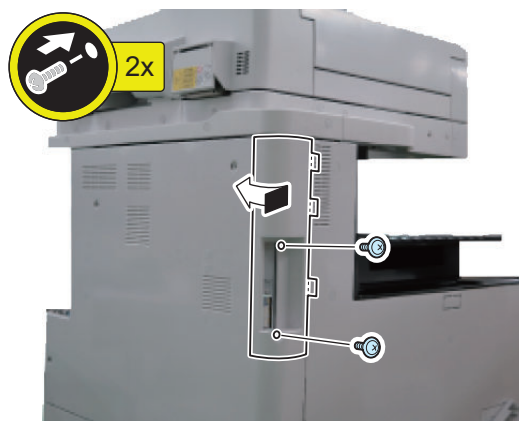
13. Install the Rear Upper Cover.

- 3 Protrusions
- 1 Claw
- 4 Screws
- 1 Rubber Cap



14. Install the Rear Upper Left Cover.

- 3 Protrusions
- 2 Screws



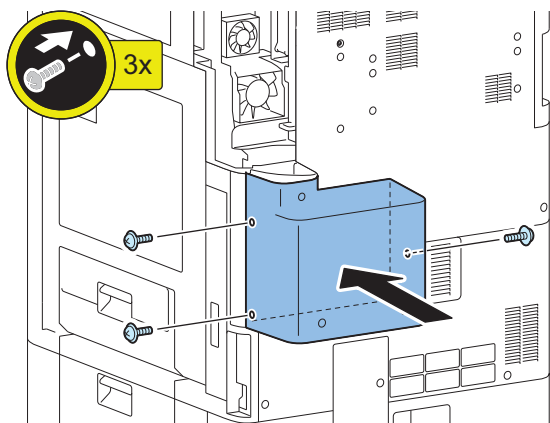
□

NOTE:

This step is for the Duct Model for EUR only.

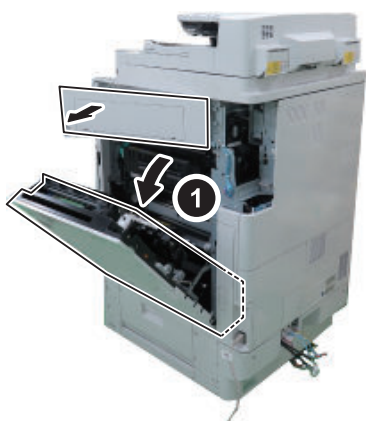
15. Install the Duct Lower Cover.

• 3 Screws



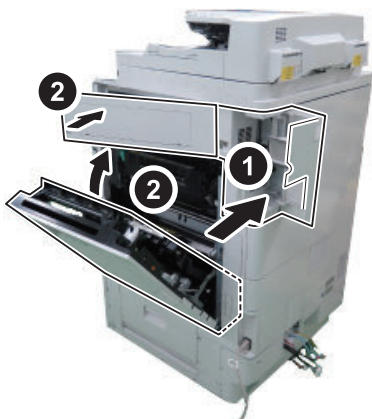
□

16. Open the Right Lower Cover (the Right Upper Cover will open at the same time).



□

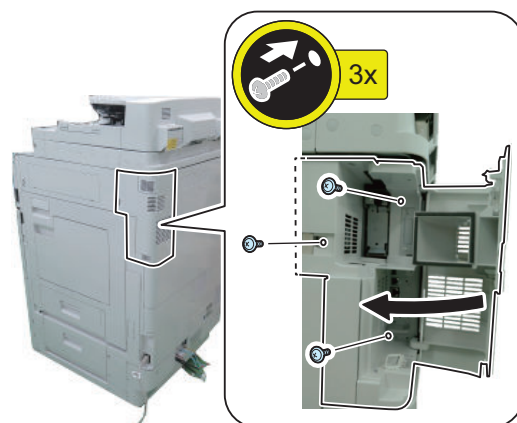
17. Install the Right Rear Cover 1, and close the Right Upper Cover and the Right Lower Cover.



□

18. Close the Right Rear Cover 1.

• 3 Screws

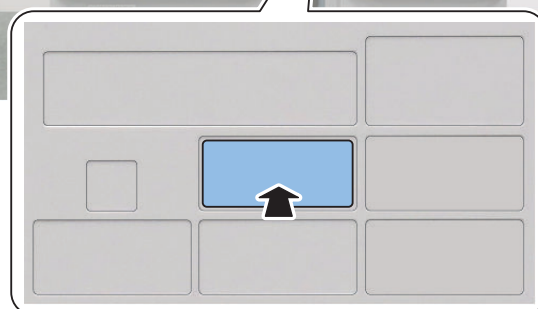
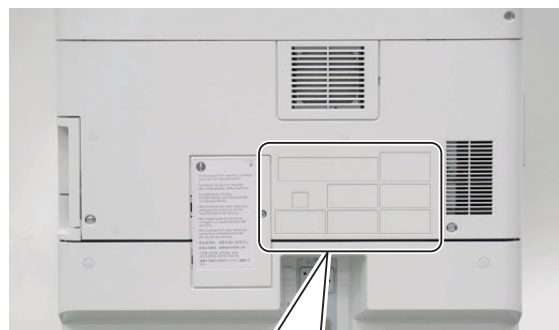


□

NOTE:

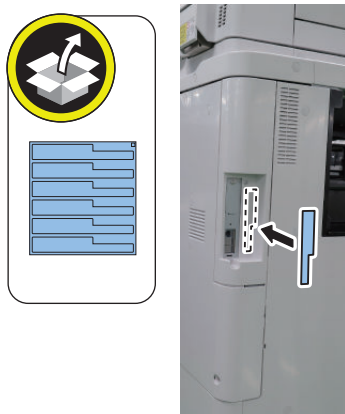
This step is only for USA and Taiwan.

19. Affix the following FAX Approval Label.



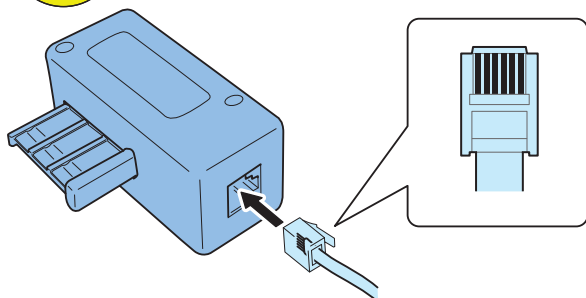
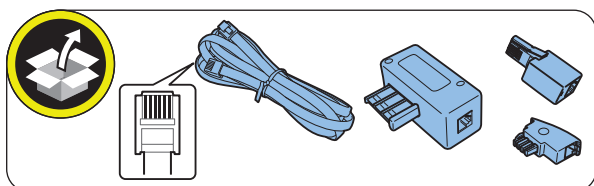


20. Affix the appropriate Modular Label to the place shown in the figure.

**NOTE:**

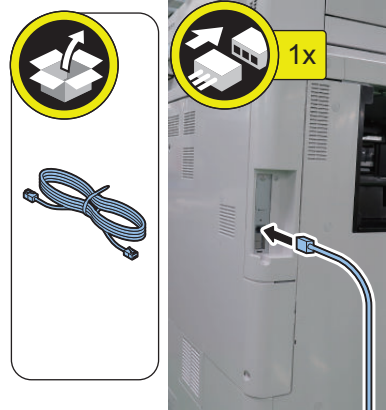
This step is only for Europe.
Do not connect the Telephone Cord (2 contact type) with the PTT Plug.

21. Connect the PTT Plug matched the field or area to the PTT Cable (6 contact type).



22. Connect the end of the PTT Cable or Telephone Cord to the modular jack on the Host machine, and

connect the other end to the modular jack on the wall.



23. Connect the Power Plug to the outlet.
24. Turn ON the main power switch.

CAUTION:

If the machine does not recognize this equipment, unplug and then plug the power plug after turning OFF the main power switch, or turn OFF the main power switch and then turn it ON within 20 seconds. To avoid this symptom, unplug the power plug or turn the breaker OFF when installing.

● Checking the Operation

■ Type Setting

Select the country/region of the FAX Board in Service Mode:
FAX > Type > TYPE

This setting performs the parameter settings to match the communication specification of the country/region.



- From the following service mode, set the TYPE of country/region to install this machine, and then press OK.
FAX > TYPE > TYPE
- Confirm that service mode parameter below is "0". In the case, parameter is "1", change to "0".
COPIER > OPTION > DSPLY-SW > SDTM-DSP

NOTE:

To change parameter to "0" makes no show below [Settings/Registration > Preferences > Time/Energy Settings > Auto Shutdown Time] and auto shut down is not available.

- Turn OFF/ON the main power switch to enable this setting.

■ Basic Setting

NOTE:

- When "System Manager Information Settings" is set, be sure to follow the direction of user administrator in order to log in as an administrator.
- This setting can also be set from the Setup Guide ([Settings/Registration] > [Management Settings] > [License/Other] > [Start Setup Guide]).

In this section, make only minimum settings required for FAX communication.



1. Set the user telephone number.

[Settings/Registration] > [Function Settings] > [Send] > [Fax Settings] > [Set Line] > [Line 1] > [Register Unit Telephone Number] > Enter the fax number > [OK]

2. Set Type of telephone line.

[Settings/Registration] > [Function Settings] > [Send] > [Fax Settings] > [Set Line] > [Line 1] > [Select Line Type] > Select the line type to connect > [OK]

3. Turn OFF/ON the main power switch after setting the user telephone numbers and the type of telephone line.

■ FAX Communication Test

Perform communication test to check if FAX function works correctly.



1. Switch the control panel display to Send/Fax display.

2. Send the test document from this machine to another machine that can handle the communication test to check that this machine can send the data correctly.

3. Send the test document from the target to this machine to check if the machine can receive the document properly.

Super G3 FAX Board-AS2

Product Name

Safety regulations require the product's name to be registered. In some regions where this product is sold, the following name may be registered instead.

- F632501

Points to Note at Installation

- When installing the Super G3 2nd Line Fax Board and this equipment at the same time, after checking "Checking the Contents", and install them following the Installation Procedure for Super G3 2nd Line Fax Board.
- For "Checking the Operation", refer to this document.

Essential Items to Be Performed Before Installation

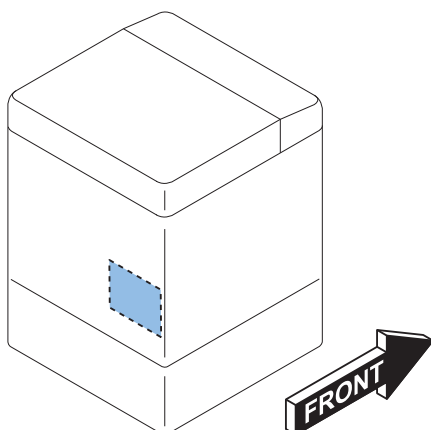
- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:



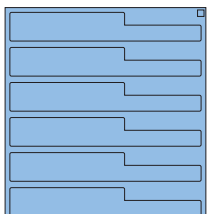
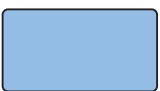
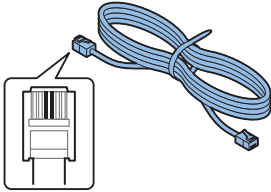
- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Outline Drawing



Checking the Contents

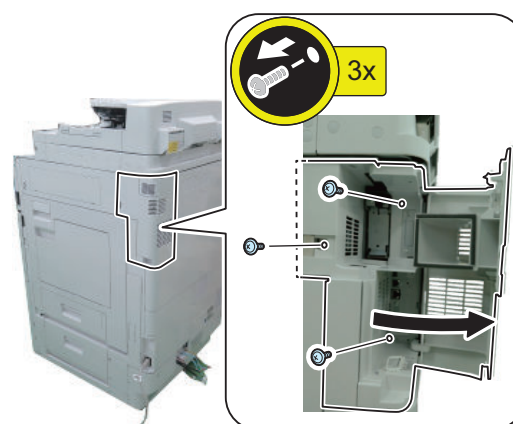
<input type="checkbox"/> [1] FAX Unit X 1 	<input type="checkbox"/> [2] Screw (TP; M3x4 Black) X 1 
<input type="checkbox"/> [3] Modular Label X 1 	<input type="checkbox"/> [4] Fax Approval Label X 1 
<input type="checkbox"/> [5] Telephone Cord (2 Contact type) X 1 	

< Others >

- Including guides

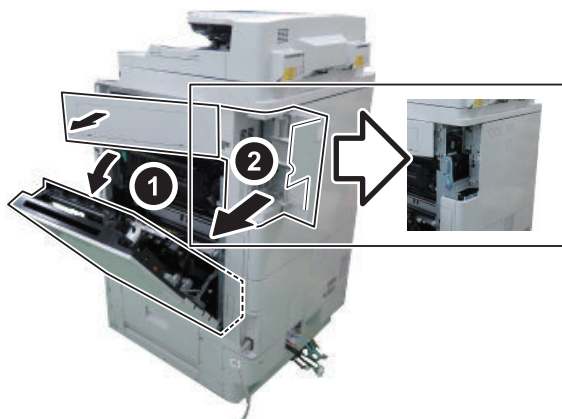
Installation Procedure

1. Open the Right Rear Cover 1 and remove the 3 screws.

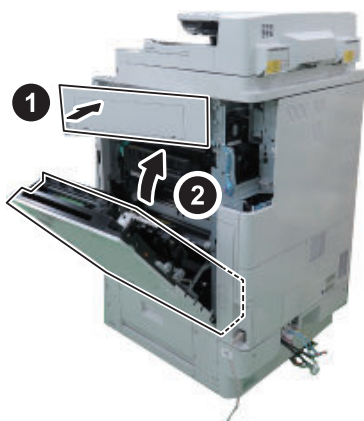




2. Open the Right Lower Cover (the Right Upper Cover will open at the same time), and remove the Right Rear Cover 1.

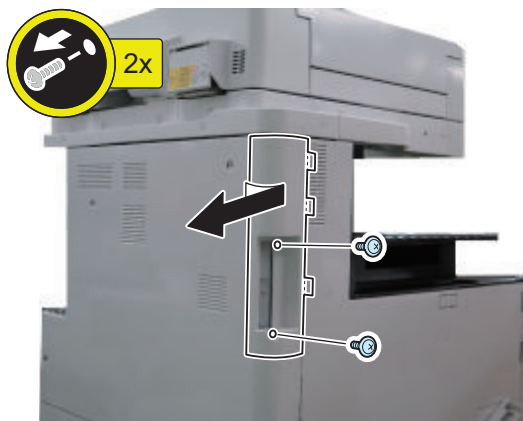


3. Close the Right Upper Cover and the Right Lower Cover.



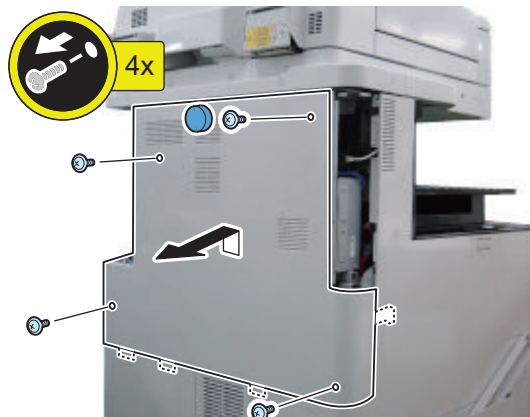
4. Remove the Rear Upper Left Cover.

- 2 Screws
- 3 Protrusions



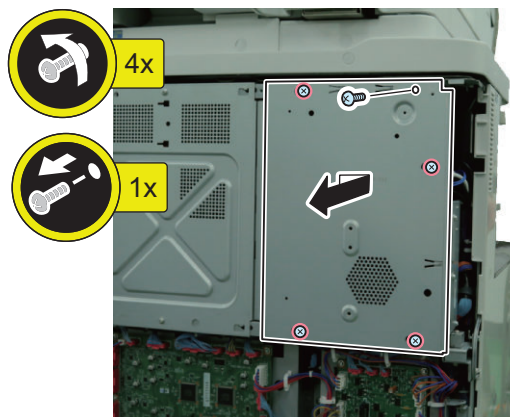
5. Remove the Rear Upper Cover.

- 1 Rubber Cap
- 4 Screws
- 1 Claw
- 3 Protrusions



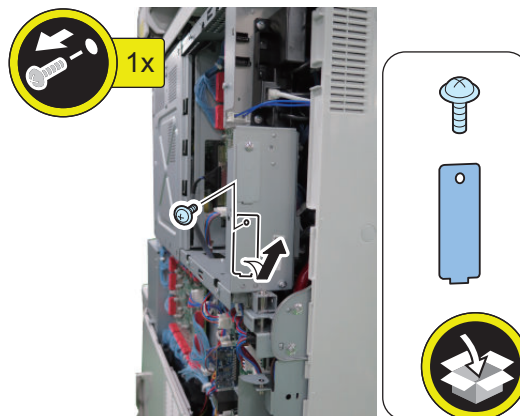
6. Remove the Controller Box Cover.

- 4 Screws (to loosen)
- 1 Screw (to remove)



7. Remove the Face Cover. (The removed parts will not be used.)

- 1 Screw
- 1 Protrusion



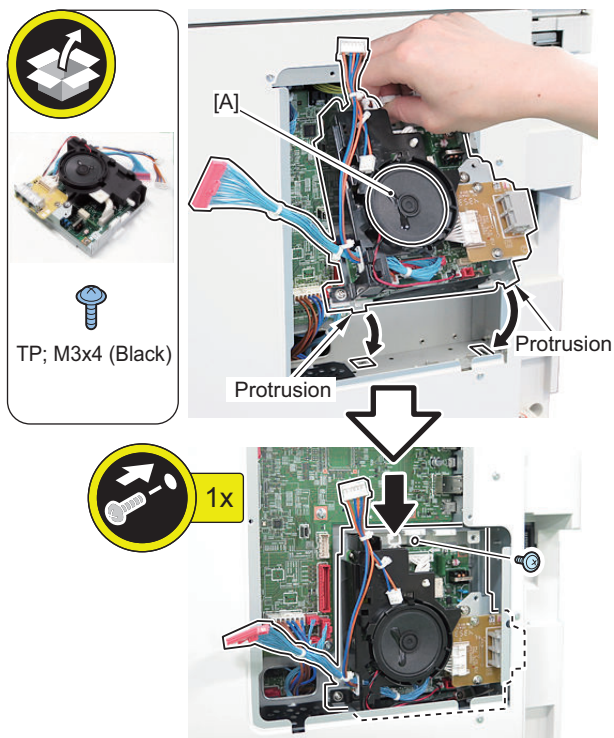


8. Remove the tape and, install the Fax Unit.

- 2 Protrusions
- 1 Screw (TP; M3x4: Black)

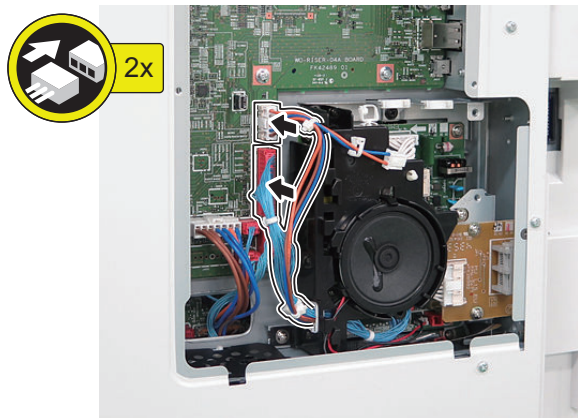
CAUTION:

- Be careful not to damage the [A] part of the speaker as the wiring may be broken.
- Be sure to tighten the screw while holding the FAX Unit.
- After tightening the screw of the FAX Unit, check for any backlash. If there is backlash, tighten the screw again with the protrusion precisely fitted.



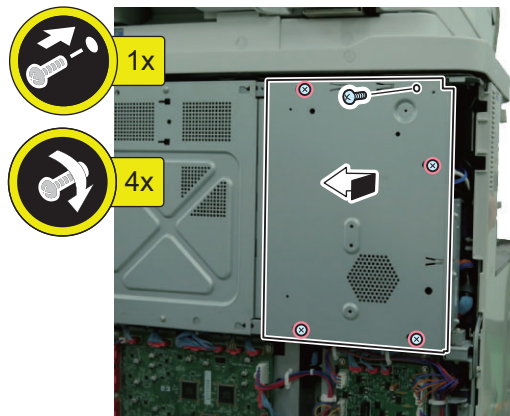
9. Connect the 2 cables of the FAX Unit.

- 2 Connectors



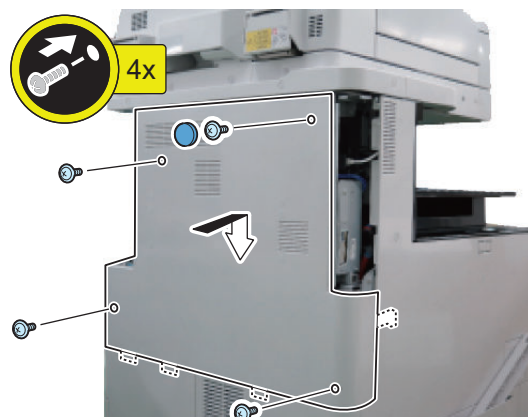
10. Install the Controller Box Cover.

- 1 Screw (to install)
- 4 Screws (to tighten)



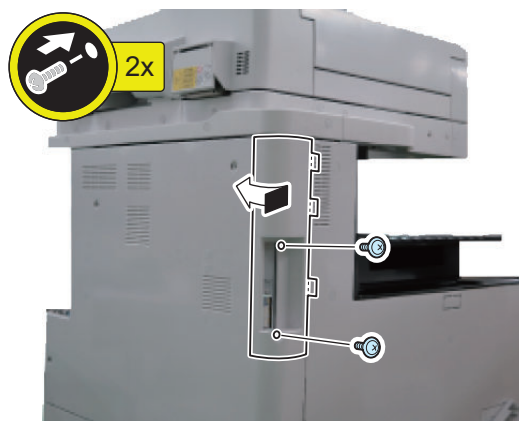
11. Install the Rear Upper Cover.

- 3 Protrusions
- 1 Claw
- 4 Screws
- 1 Rubber Cap



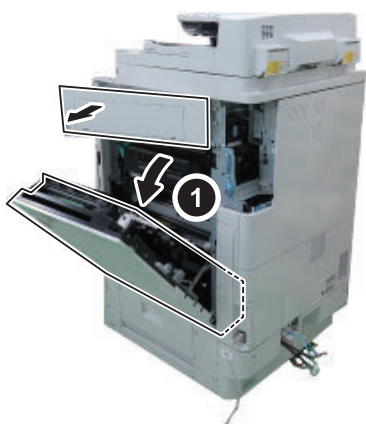
12. Install the Rear Upper Left Cover.

- 3 Protrusions
- 2 Screws

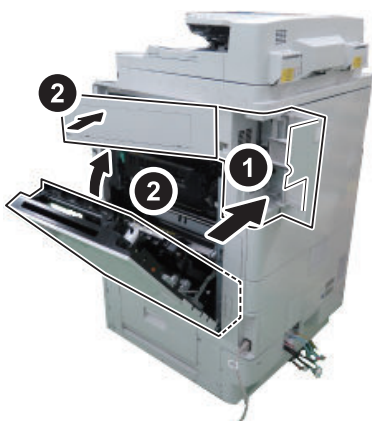




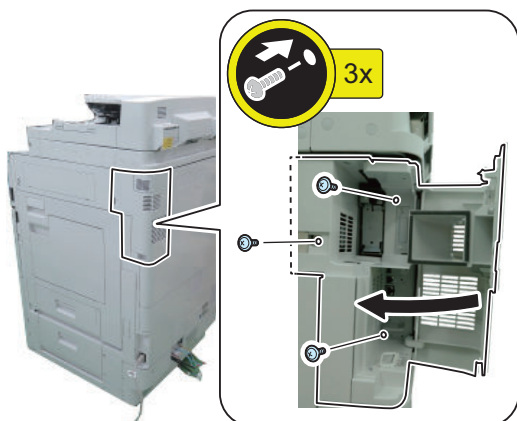
13. Open the Right Lower Cover (the Right Upper Cover will open at the same time).



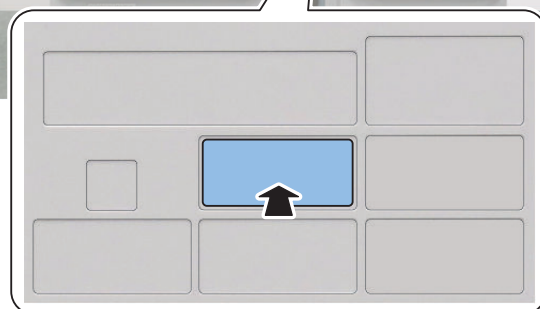
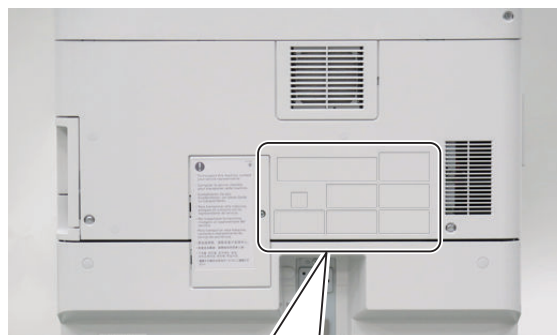
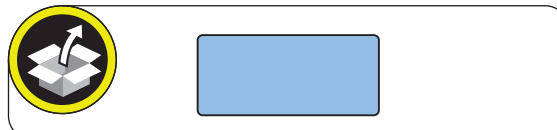
14. Install the Right Rear Cover 1, and close the Right Upper Cover and the Right Lower Cover.



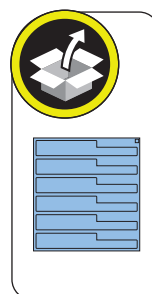
15. Close the Right Rear Cover 1.
• 3 Screws



16. Affix the following FAX Approval Label.

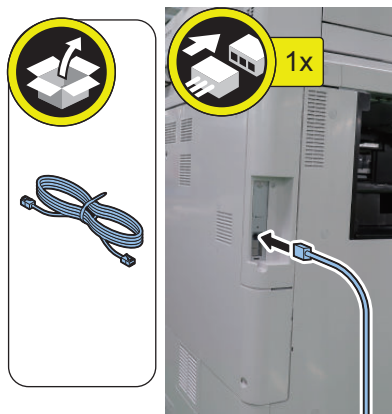


17. Affix the appropriate Modular Label to the place shown in the figure.





18. Connect the end of the Telephone Cord to the modular jack on the Host machine, and connect the other end to the modular jack on the wall.



19. Connect the Power Plug to the outlet.

20. Turn ON the main power switch.

CAUTION:

If the machine does not recognize this equipment, unplug and then plug the power plug after turning OFF the main power switch, or turn OFF the main power switch and then turn it ON within 20 seconds. To avoid this symptom, unplug the power plug or turn the breaker OFF when installing.

● Checking the Operation

■ Type Setting

Select the country/region of the FAX Board in Service Mode:
FAX > Type > TYPE

This setting performs the parameter settings to match the communication specification of the country/region.



1. From the following service mode, set the **TYPE** of country/region to install this machine, and then press **OK**.
FAX > TYPE > TYPE
2. Confirm that service mode parameter below is "0". In the case, parameter is "1", change to "0".
COPIER > OPTION > DSPLY-SW > SDTM-DSP

NOTE:

To change parameter to "0" makes no show below [Settings/Registration > Preferences > Time/Energy Settings > Auto Shutdown Time] and auto shut down is not available.

3. Turn **OFF/ON** the main power switch to enable this setting.

■ Basic Setting

NOTE:

- When "System Manager Information Settings" is set, be sure to follow the direction of user administrator in order to log in as an administrator.
- This setting can also be set from the Setup Guide ([Settings/Registration] > [Management Settings] > [License/Other] > [Start Setup Guide]).

In this section, make only minimum settings required for FAX communication.



1. Set the user telephone number.

[Settings/Registration] > [Function Settings] > [Send] > [Fax Settings] > [Set Line] > [Line 1] > [Register Unit Telephone Number] > Enter the fax number > [OK]

2. Set Type of telephone line.

[Settings/Registration] > [Function Settings] > [Send] > [Fax Settings] > [Set Line] > [Line 1] > [Select Line Type] > Select the line type to connect > [OK]

3. Turn **OFF/ON** the main power switch after setting the user telephone numbers and the type of telephone line.

■ FAX Communication Test

Perform communication test to check if FAX function works correctly.



1. Switch the control panel display to **Send/Fax display**.
2. Send the test document from this machine to another machine that can handle the communication test to check that this machine can send the data correctly.
3. Send the test document from the target to this machine to check if the machine can receive the document properly.

Super G3 2nd Line Fax Board-AS1

Product Name

Safety regulations require the product's name to be registered. In some regions where this product is sold, the following name may be registered instead.

- F632502

Points to Note at Installation

When installing the Super G3 FAX Board and this equipment at the same time, be sure to install them by referring to this document after checking "Checking the Contents" of Super G3 FAX Board.

Essential Items to Be Performed Before Installation

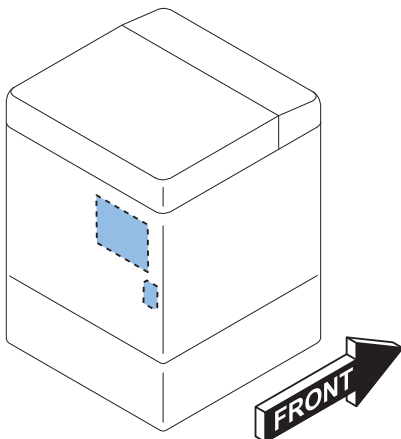
- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:


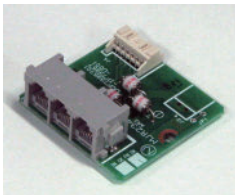



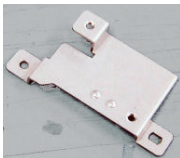



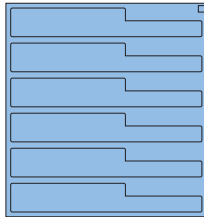
- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.


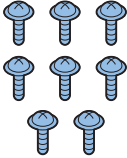


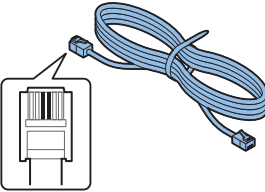
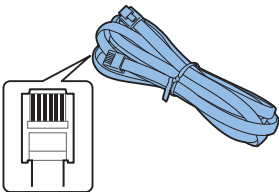
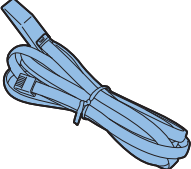
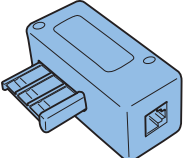
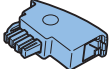
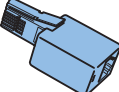
- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Outline Drawing



Checking the Contents

<input type="checkbox"/> [1] G3FAX Expansion PCB X 1 	<input type="checkbox"/> [2] Modular PCB X 1 
<input type="checkbox"/> [3] USB Cable X 1 	<input type="checkbox"/> [4] Modular Cable X 1 
<input type="checkbox"/> [5] Signal Cable X 1 	<input type="checkbox"/> [6] FAX Shield Plate X 1 
<input type="checkbox"/> [7] FAX Board Fixed Plate X 1 	<input type="checkbox"/> [8] PCB Spacer (Long) X 3 
<input type="checkbox"/> [9] PCB Spacer (Short) X 1 	<input type="checkbox"/> [10] Modular Label X 1 

<input type="checkbox"/> [11] Dust Cover X 2 	<input type="checkbox"/> [12] Screw (TP; M3x4) X 8 
<input type="checkbox"/> [13] Screw (Binding; M4x4) X 1 	<input type="checkbox"/> [14] Fax Approval Label (only for Taiwan) X 1 
<input type="checkbox"/> [15] Telephone Cord (2 Contact type) X 1 	<input type="checkbox"/> [16] Telephone Cord (6 Contact type) (only for Europe) X 1 
<input type="checkbox"/> [17] PTT Cable (only for Asia) X 1 	<input type="checkbox"/> [18] PTT Plug (Only for France) X 1 
<input type="checkbox"/> [19] PTT Plug (Only for Germany) X 1 	<input type="checkbox"/> [20] PTT Plug (Only for U.K.) X 1 

Installation Procedure

Preparation

NOTE:

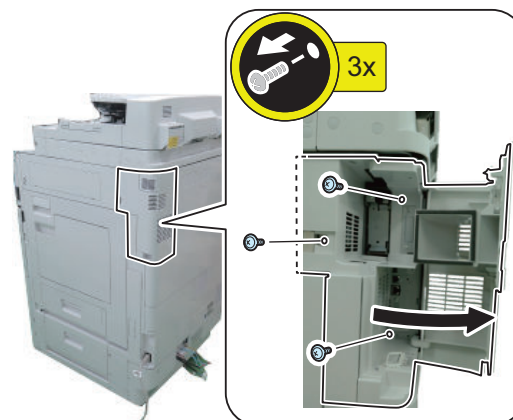
- When the Super G3 FAX Board is installed: Perform steps 1 to 9, and proceed to step 12.
- When installing the Super G3 FAX Board at the same time: Perform steps 2 to 8, and proceed to step 10.



1. Disconnect the Telephone Cord of the FAX (1-Line).

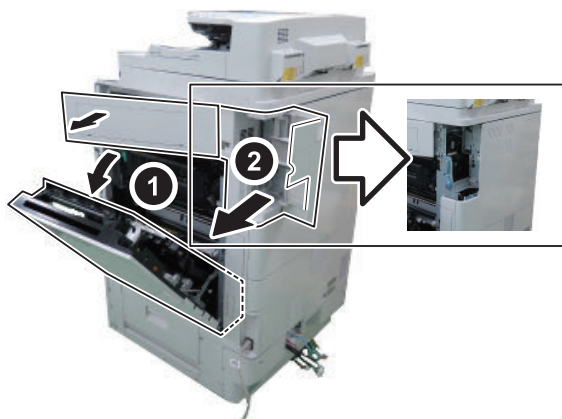


2. Open the Right Rear Cover 1 and remove the 3 screws.

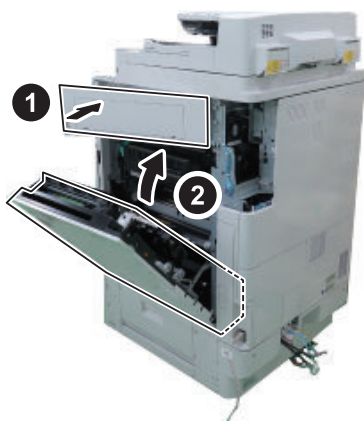




3. Open the Right Lower Cover (the Right Upper Cover will open at the same time), and remove the Right Rear Cover 1.



4. Close the Right Upper Cover and the Right Lower Cover.

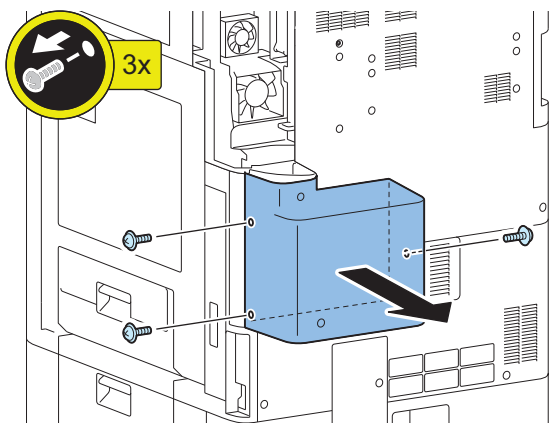


NOTE:

This step is for the Duct Model for EUR only.

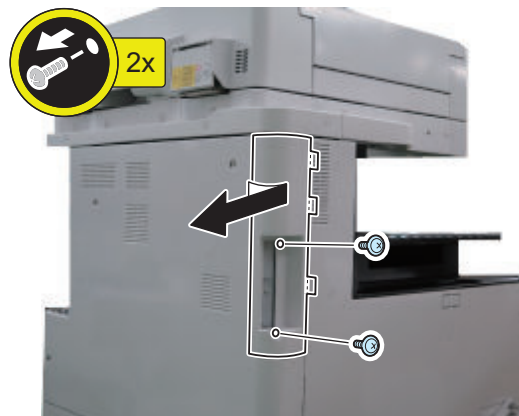
5. Remove the Duct Lower Cover.

- 3 Screws



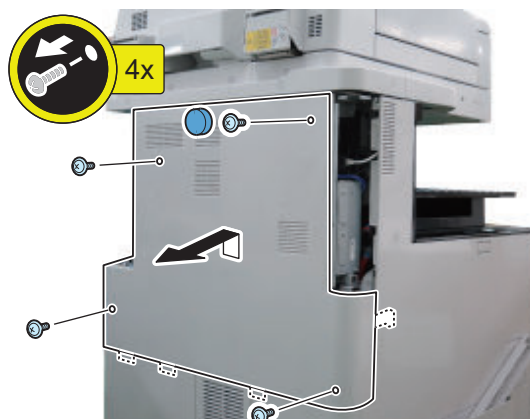
6. Remove the Rear Upper Left Cover.

- 2 Screws
- 3 Protrusions



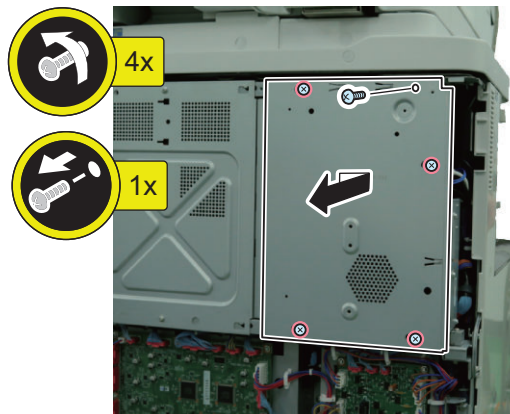
7. Remove the Rear Upper Cover.

- 1 Rubber Cap
- 4 Screws
- 1 Claw
- 3 Protrusions



8. Remove the Controller Box Cover.

- 4 Screws (to loosen)
- 1 Screw (to remove)



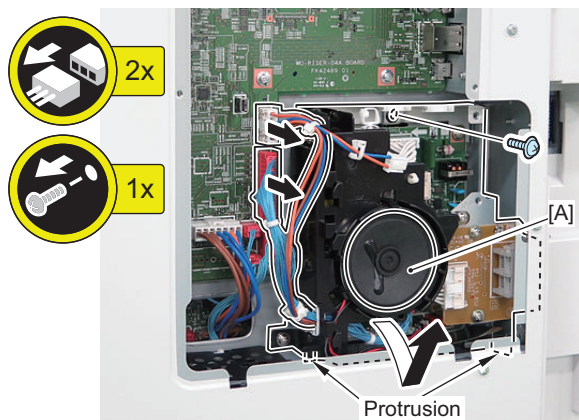


9. Remove the FAX Unit.

- 2 Connectors
- 1 Screw
- 2 Protrusions

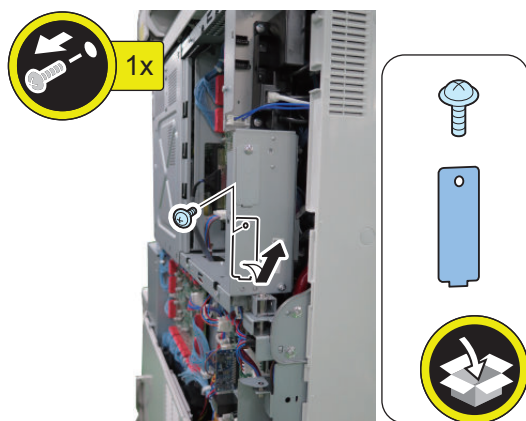
CAUTION:

Be careful not to damage the [A] part of the speaker as the wiring may be open circuit.



10. Remove the Face Cover of the FAX (1-Line). (The removed parts will not be used.)

- 1 Screw (used in the next step only in EUR)
- 1 Protrusion

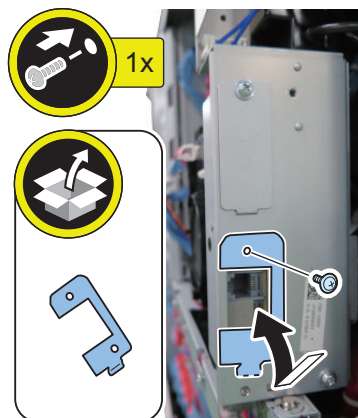


NOTE:

This step is only for Europe.

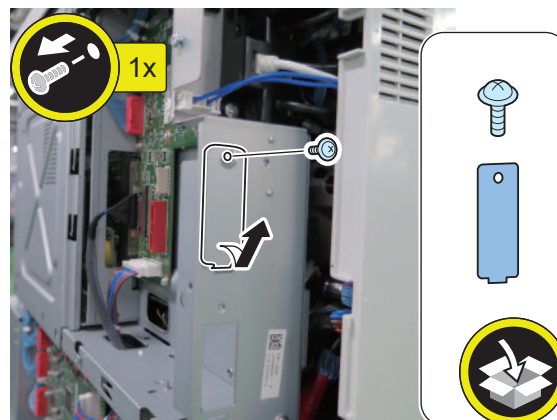
11. Install the Modular Cover.

- 1 Protrusion
- 1 Screw (use the screw removed in the previous step)



12. Remove the Face Cover of the FAX (2-Line). (The removed parts will not be used.)

- 1 Screw
- 1 Protrusion



■ Installing the Equipment

□

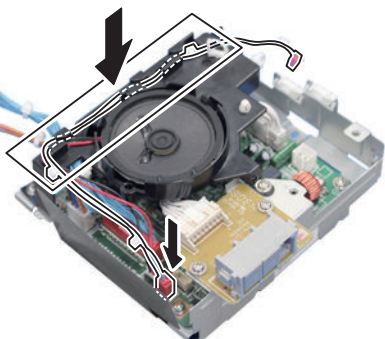
1. Free the Cable from the Wire Saddle.



□

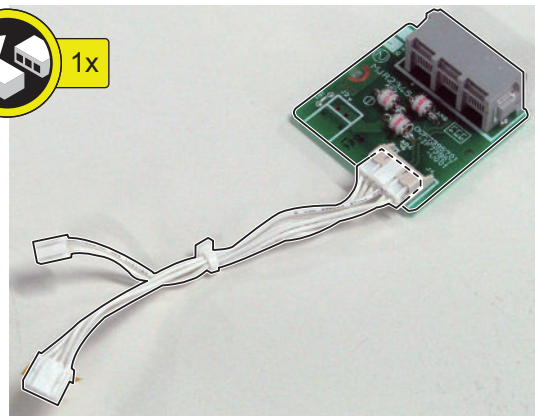
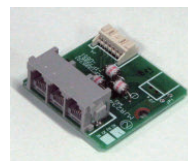
2. Install the Signal Cable to the FAX Unit.

- 3 Cable Guides



□

3. Install the Modular Cable to the Modular PCB.



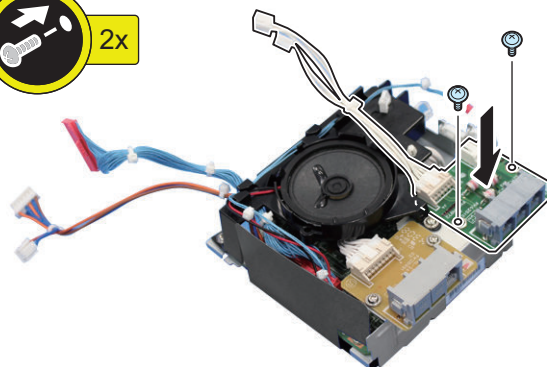
□

4. Install the Modular PCB to the FAX Unit.

- 2 Screws (TP; M3x4)



TP; M3x4



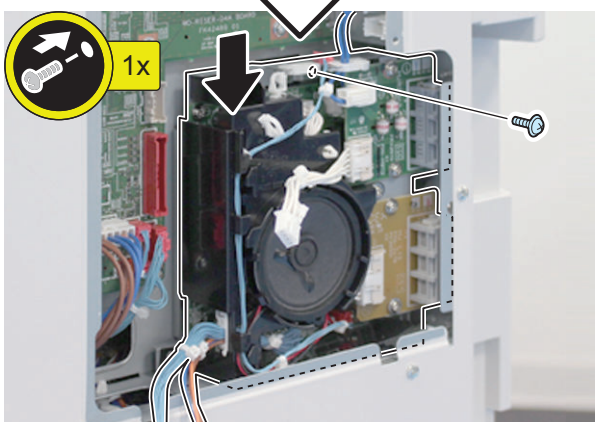
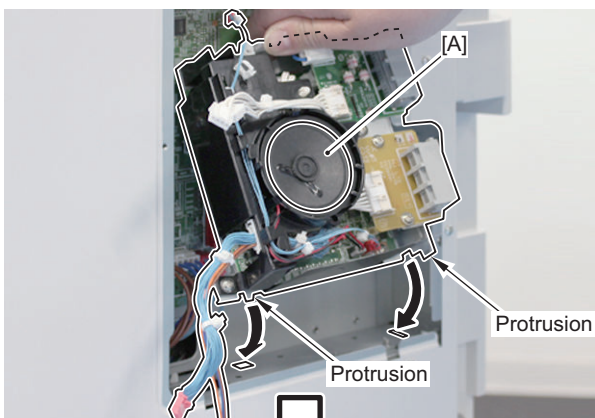


5. Install the FAX Unit to the Host Machine.

- 2 Protrusions
- 1 Screw (TP; M3x4 Black) (Use the removed screw or those included with the Super G3 FAX Board)

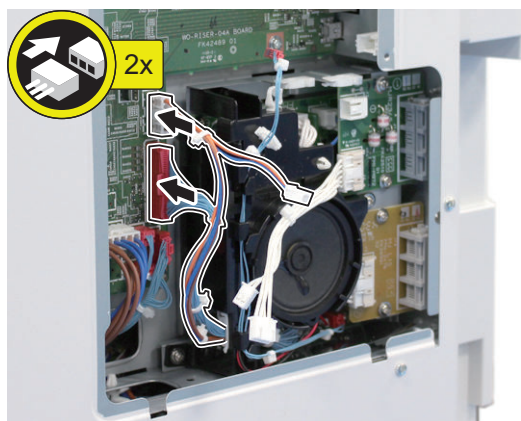
CAUTION:

- Be careful not to damage the [A] part of the speaker as the wiring may be broken.
- Be sure to tighten the screw while holding the FAX Unit.
- After tightening the screw of the FAX Unit, check for any backlash. If there is backlash, tighten the screw again with the protrusion precisely fitted.

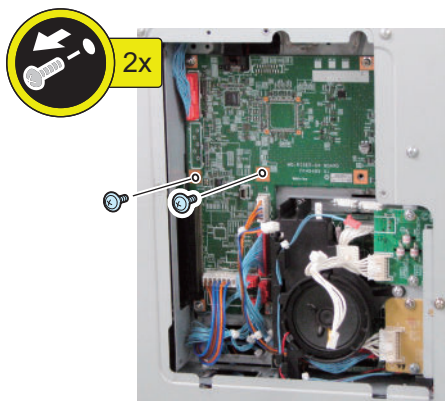


6. Install the 2 Cable of the FAX Unit.

- 2 Connectors

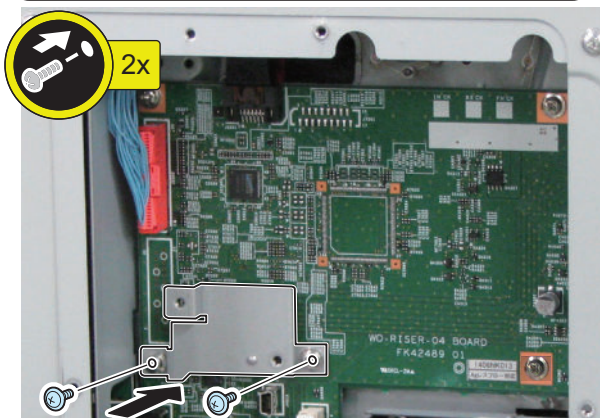
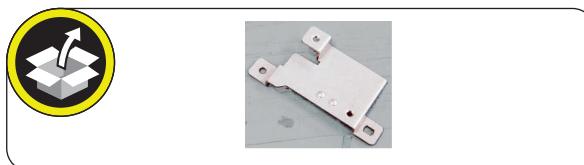


7. Remove the 2 Screws. (will be used in next step)



8. Install the FAX Shield Plate.

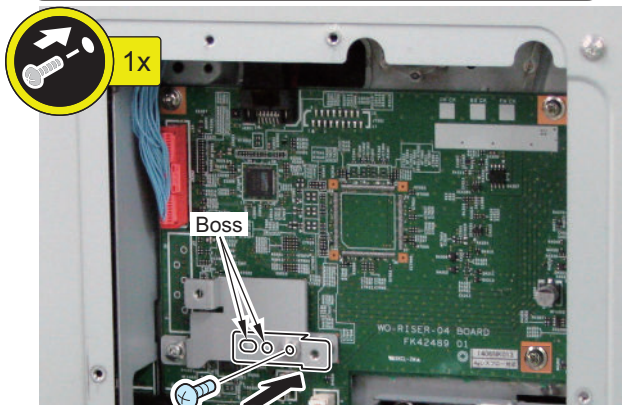
- 2 Screws (screws removed in the previous step)



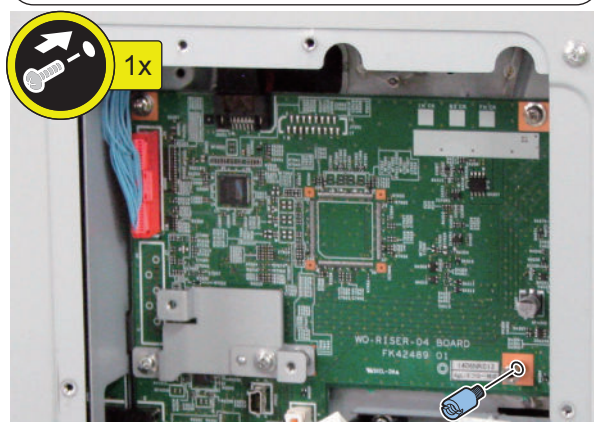
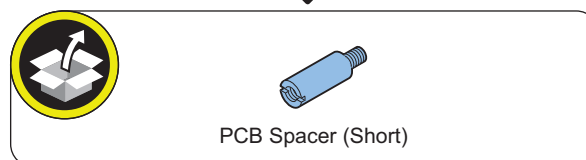
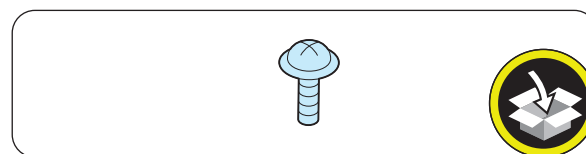
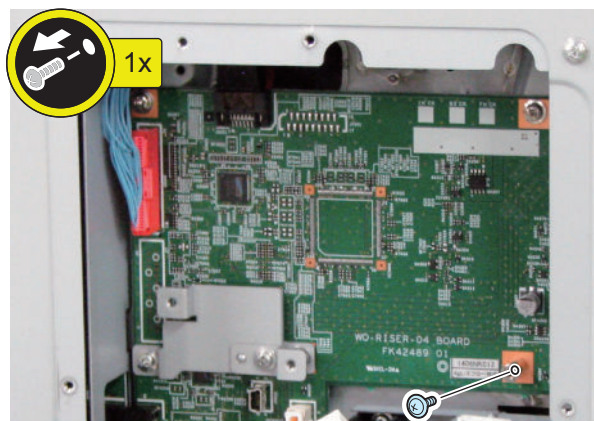


9. Install the FAX Board Fixed Plate.

- 2 Bosses
- 1 Screw (Binding; M4x4)

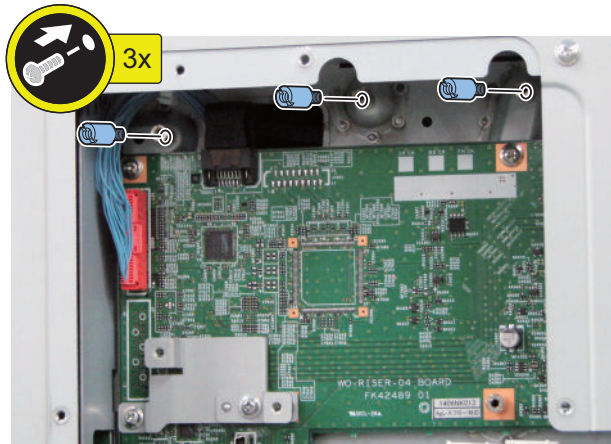
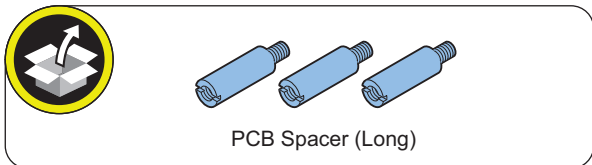


10. Remove the Screw and install the PCB Spacer (Short). (The removed screw will not be used.)





11. Install the 3 PCB Spacers (Long).

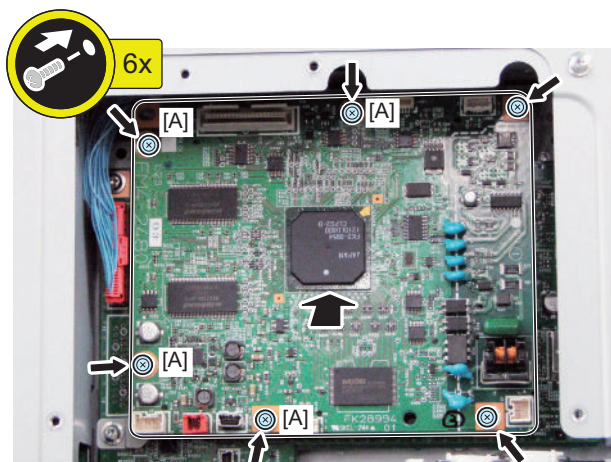
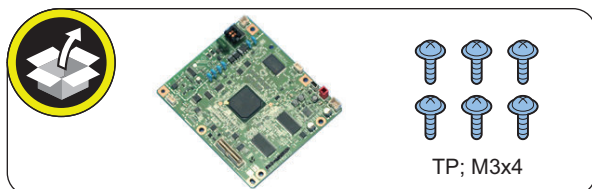


12. Install the G3FAX Expansion PCB.

- 6 Screws (TP; M3x4)

NOTE:

Because the 4 screws [A] need to be removed when installing the Super G3 3rd/4th Line Fax Board at the same time, it is efficient not to tighten them here.

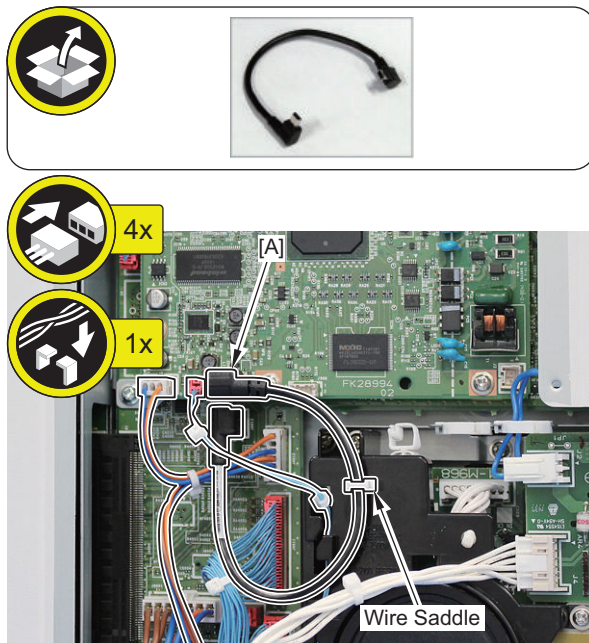


13. Install the Signal Cable, Power Supply Cable and USB Cable to the G3FAX Expansion PCB.

- 1 Wire Saddle

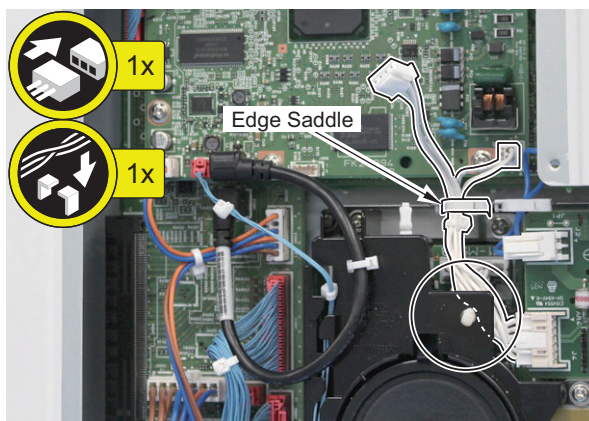
NOTE:

Because [A] of the USB Cable needs to be disconnected when installing the Super G3 3rd/4th Line Fax Board at the same time, it is efficient not to connect it here.



14. Pass the Modular Cable inside the Speaker Holder, and install the G3 FAX Control PCB.

- 1 Edge Saddle

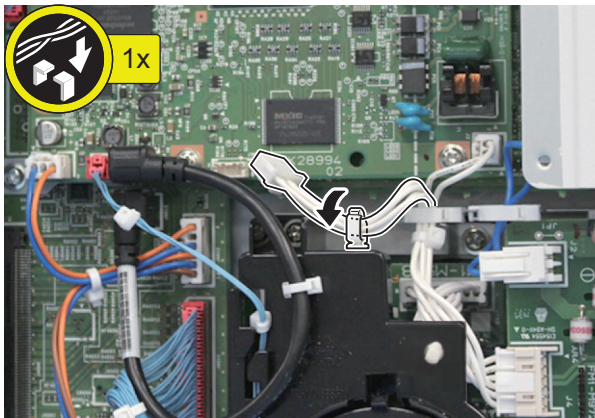




NOTE:

When installing the Super G3 3rd/4th Line Fax Board at the same time, the following step is not necessary.

15. Secure the cable with the Wire Saddle.



■ Subsequent Work

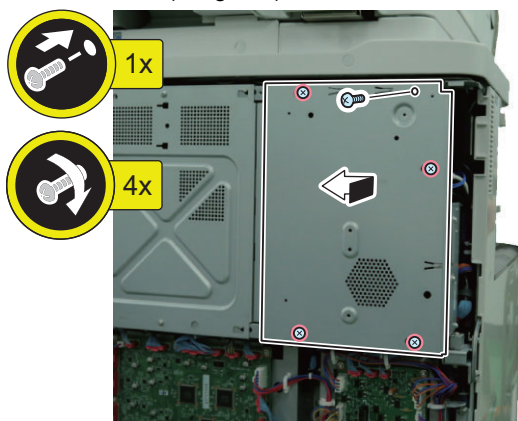


NOTE:

When performing the following steps, it is efficient to install the cover after installing the Super G3 3rd/4th Line Fax Board in case of installing the fax board at the same time.

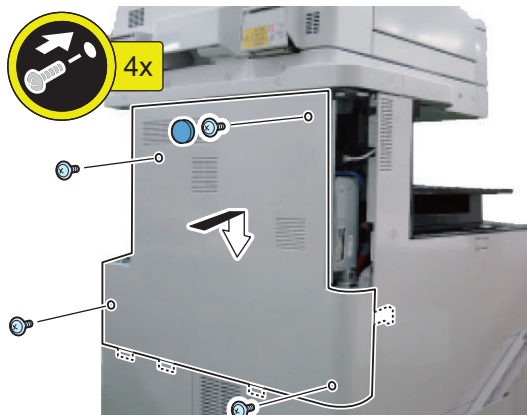
1. Install the Controller Box Cover.

- 1 Screw (to install)
- 4 Screws (to tighten)



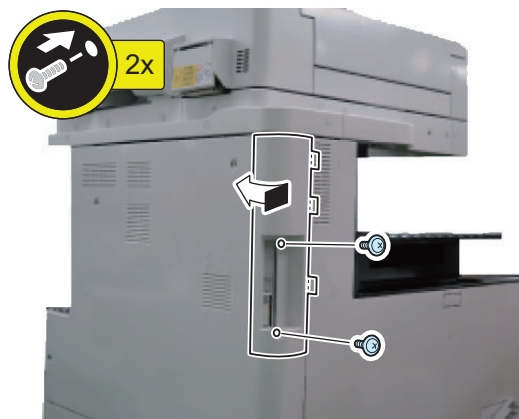
2. Install the Rear Upper Cover.

- 3 Protrusions
- 1 Claw
- 4 Screws
- 1 Rubber Cap



3. Install the Rear Upper Left Cover.

- 3 Protrusions
- 2 Screws



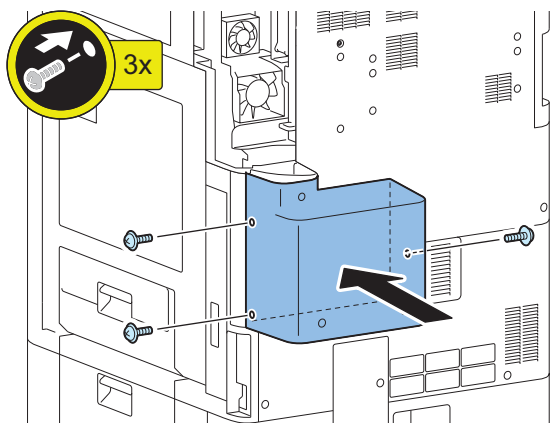


NOTE:

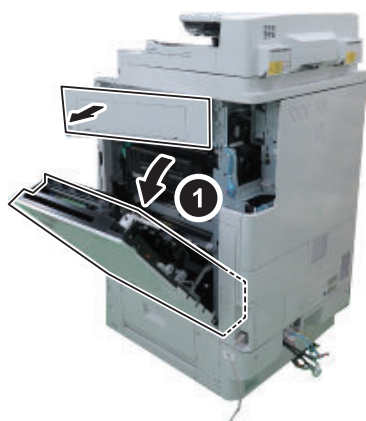
This step is for the Duct Model for EUR only.

4. Install the Duct Lower Cover.

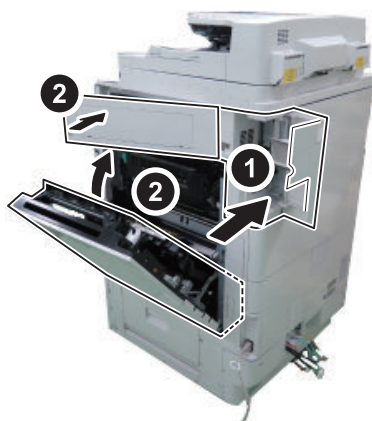
- 3 Screws



5. Open the Right Lower Cover (the Right Upper Cover will open at the same time).

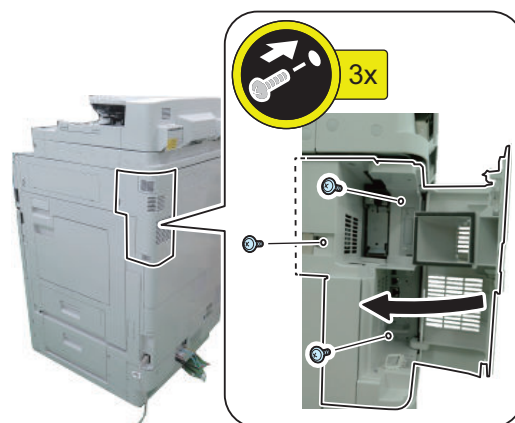


6. Install the Right Rear Cover 1, and close the Right Upper Cover and the Right Lower Cover.



7. Close the Right Rear Cover 1.

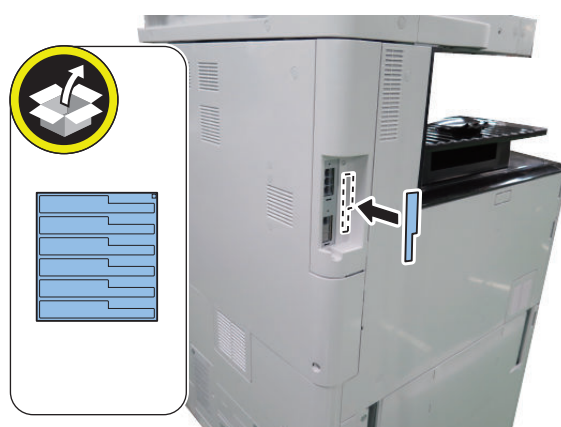
- 3 Screws



NOTE:

When installing the G3 3rd/4th Line Fax Board at the same time, this work is not necessary.

8. Affix the appropriate Modular Label to the place shown in the figure. If a label is already affixed, remove it and then affix the appropriate label.

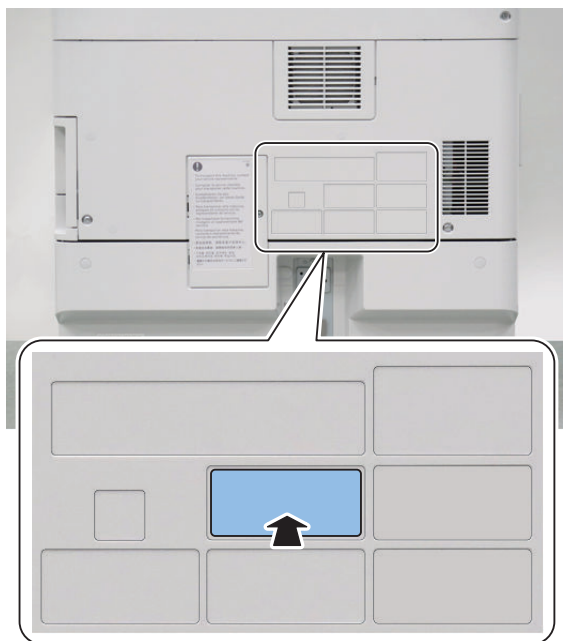




NOTE:

- The following work is required only when installing the Super G3 FAX Board at the same time.
- This step is only for USA and Taiwan.

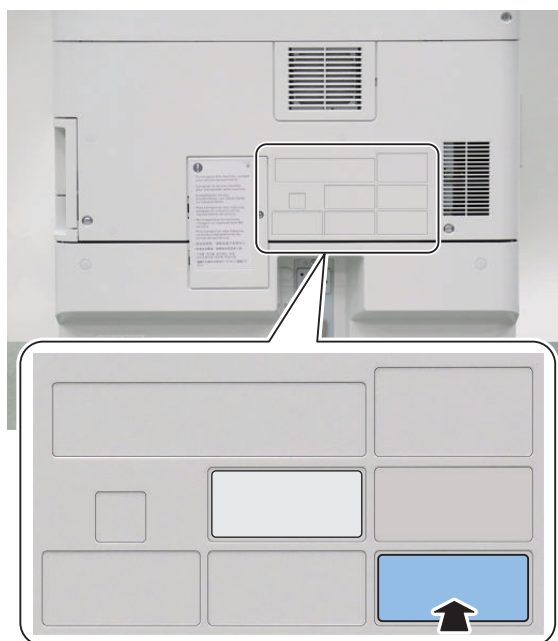
9. Affix the following FAX Approval Label.



NOTE:

This step is only for Taiwan.

10. Affix the following FAX Approval Label.



□

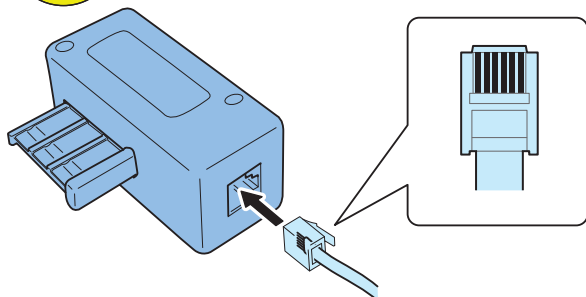
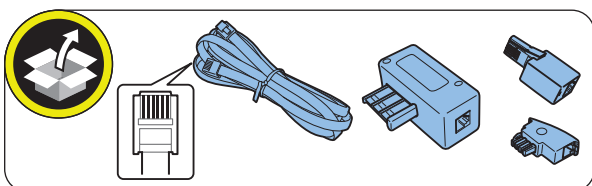
NOTE:

- This step is only for Europe.
- When installing the Super G3 FAX Board at the same time, assemble it by following the same procedure.

11. Connect the PTT Plug matched the field or area to the PTT Cable (6 contact type).

CAUTION:

Do not connect the Telephone Cord (2 contact type) with the PTT Plug.



□

12. Connect the PTT Cable or Telephone Cord of the FAX (1-Line). When installing this equipment at the same time, connect the other end to the modular jack on the wall.



□

13. Connect the end of the PTT Cable or Telephone Cord to the modular jack on the Host machine, and

connect the other end to the modular jack on the wall.

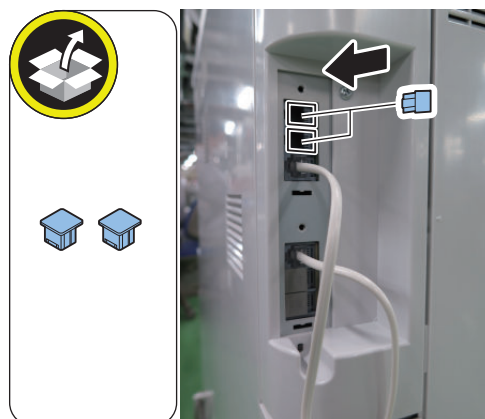


□

NOTE:

When installing the G3 3rd/4th Line Fax Board at the same time, this work is not necessary.

14. Install the Dust Cover.



□

15. Connect the power plug to the outlet.

16. Turn ON the main power switch.

CAUTION:

If the machine does not recognize this equipment, unplug and then plug the power plug after turning OFF the main power switch, or turn OFF the main power switch and then turn it ON within 20 seconds. To avoid this symptom, unplug the power plug or turn the breaker OFF when installing.

17. If a message prompting the user to update the version appears, press [Update] to automatically update the version of this equipment.

NOTE:

If [Skip] is selected, a message prompting the user to update the version will appear every time the host machine is started.

In the service mode (Lv. 2) shown below, it is possible to set not to display the message.

- COPIER > OPTION > FNC-SW > VER-CHNG

Checking the Operation

■ Type Settings

Select the country/region of the FAX Board in Service Mode:
FAX > Type > TYPE

This setting performs the parameter settings to match the communication specification of the country/region.



1. From the following service mode, set the TYPE of country/region to install this machine, and then press OK.

FAX > TYPE > TYPE

2. Confirm that service mode parameter below is "0". In the case, parameter is "1", change to "0".

COPIER > OPTION > DSPLY-SW > SDTM-DSP

NOTE:

To change parameter to "0" makes no show below [Settings/Registration > Preferences > Time/Energy Settings > Auto Shutdown Time] and auto shut down is not available.

3. Turn OFF/ON the main power switch to enable this setting.

■ Basic Settings

NOTE:

When "System Manager Information Settings" is set, be sure to follow the direction of user administrator in order to log in as an administrator.

In this section, make only minimum settings required for FAX communication.



1. Set the user telephone number.

[Settings/Registration] > [Function Settings] > [Send] > [Fax Settings] > [Set Line] > [Line 2] > [Register Unit Telephone Number] > Enter FAX number > [OK]

2. Set the type of telephone line.

[Settings/Registration] > [Function Settings] > [Send] > [Fax Settings] > [Set Line] > [Line 2] > [Select Line Type] > Select the line type to connect > [OK]

3. Turn OFF/ON the main power switch after setting the user telephone numbers and the type of telephone line.

■ FAX Communication Test

Perform communication test to check if FAX function works correctly.



1. Switch the control panel display to Fax display.

2. Select the sending line.

Press [Fax] > [Options] > [Select Line], select the added line, then press [OK] button.

3. Send and receive a test original between the equipment and a remote unit with which a communication test can be performed and check if it can be sent and receive correctly.

1. Press [Status Monitor/Cancel] > [Send] > [Job Log] and select [Fax] from pull down menu.

2. Press [Fax Activity Report] > [OutPut Normally] > [Start Printing].

3. The number printed following colon (:) in "COMM.MODE" field on FAX ACTIVITY REPORT TX/RX shows line type used for sending/receiving. E.g. "ECM:2" => Line 2

NOTE:

If E744-5000 error code (Fax software version mismatch error) occurred while sending or receiving fax, upgrade the firmware of 2-line Fax to the latest version.

Super G3 2nd Line Fax Board-AS2

Product Name

Safety regulations require the product's name to be registered. In some regions where this product is sold, the following name may be registered instead.

- F632502

Points to Note at Installation

When installing the Super G3 FAX Board and this equipment at the same time, be sure to install them by referring to this document after checking "Checking the Contents" of Super G3 FAX Board.

Essential Items to Be Performed Before Installation

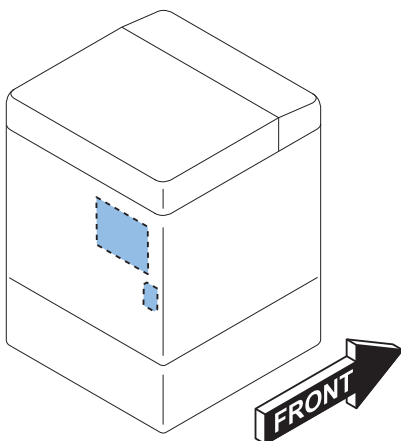
- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:


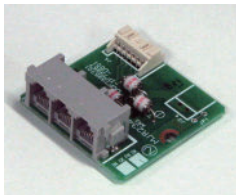



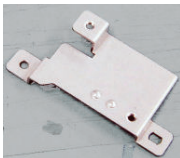



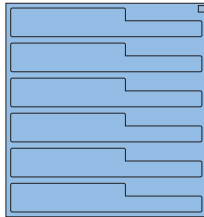
- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.


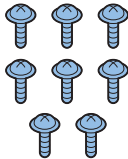

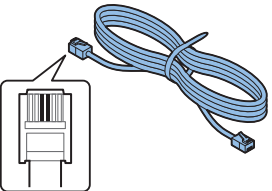
- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Outline Drawing



Checking the Contents

<input type="checkbox"/> [1] G3FAX Expansion PCB X 1 	<input type="checkbox"/> [2] Modular PCB X 1 
<input type="checkbox"/> [3] USB Cable X 1 	<input type="checkbox"/> [4] Modular Cable X 1 
<input type="checkbox"/> [5] Signal Cable X 1 	<input type="checkbox"/> [6] FAX Shield Plate X 1 
<input type="checkbox"/> [7] FAX Board Fixed Plate X 1 	<input type="checkbox"/> [8] PCB Spacer (Long) X 3 
<input type="checkbox"/> [9] PCB Spacer (Short) X 1 	<input type="checkbox"/> [10] Modular Label X 1 

<input type="checkbox"/> [11] Dust Cover X 2 	<input type="checkbox"/> [12] Screw (TP; M3x4) X 8 
<input type="checkbox"/> [13] Screw (Binding; M4x4) X 1 	<input type="checkbox"/> [14] Telephone Cord (2 Contact type) X 1 

Installation Procedure

Preparation

NOTE:

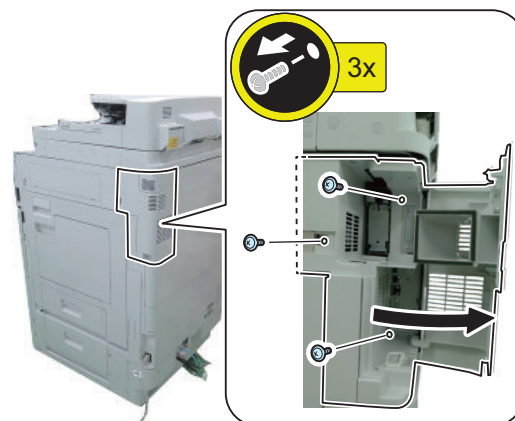
- When the Super G3 FAX Board is installed: Perform steps 1 to 8, and proceed to step 10.
- When installing the Super G3 FAX Board at the same time: Perform steps 2 to 7, and proceed to step 9.



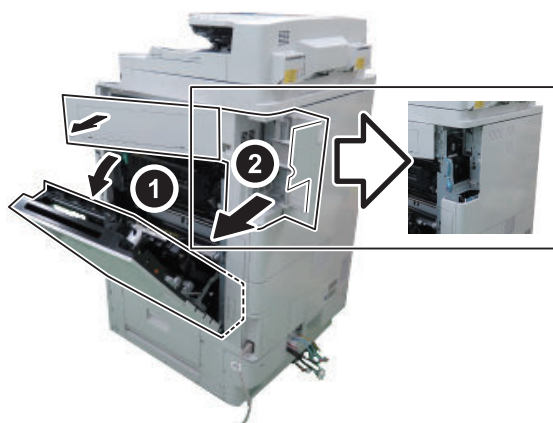
1. Disconnect the Telephone Cord of the FAX (1-Line).



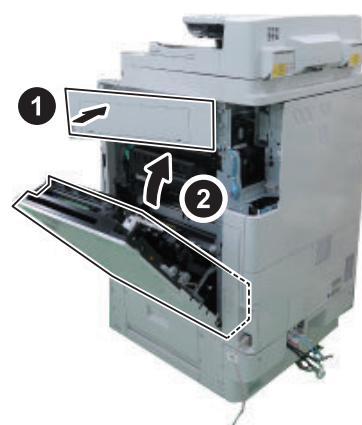
2. Open the Right Rear Cover 1 and remove the 3 screws.



3. Open the Right Lower Cover (the Right Upper Cover will open at the same time), and remove the Right Rear Cover 1.



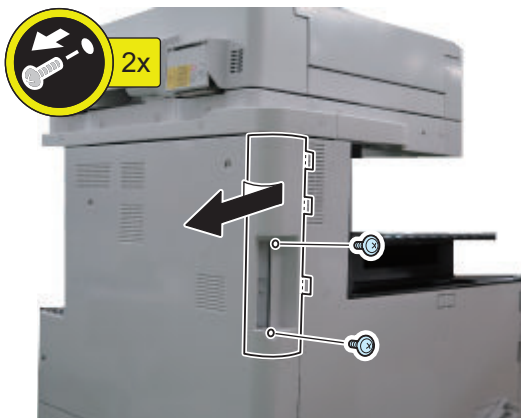
4. Close the Right Upper Cover and the Right Lower Cover.





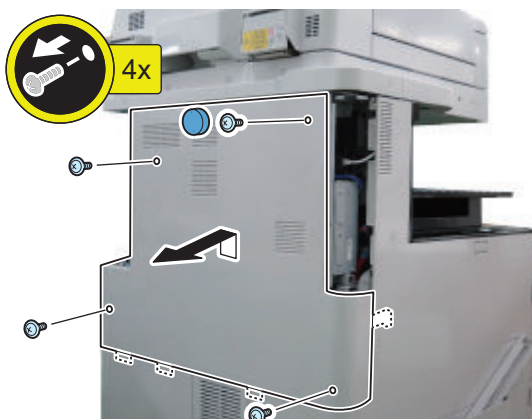
5. Remove the Rear Upper Left Cover.

- 2 Screws
- 3 Protrusions



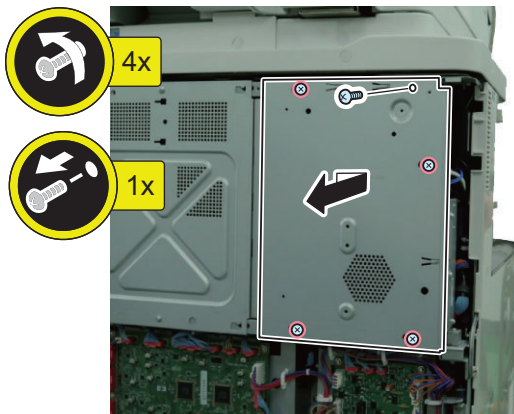
6. Remove the Rear Upper Cover.

- 1 Rubber Cap
- 4 Screws
- 1 Claw
- 3 Protrusions



7. Remove the Controller Box Cover.

- 4 Screws (to loosen)
- 1 Screw (to remove)

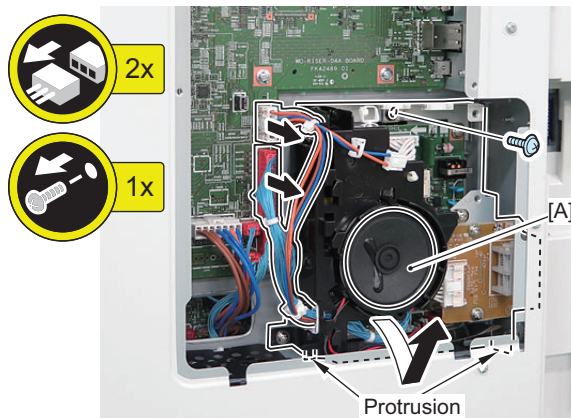


8. Remove the FAX Unit.

- 2 Connectors
- 1 Screw
- 2 Protrusions

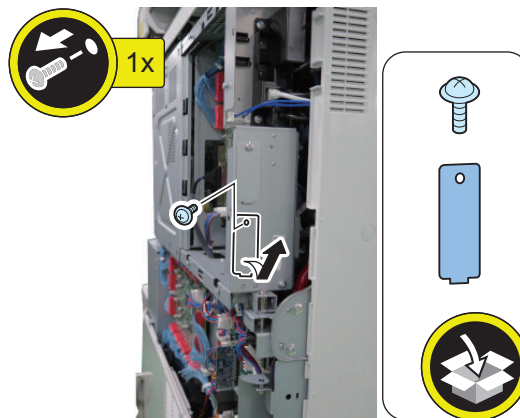
CAUTION:

Be careful not to damage the [A] part of the speaker as the wiring may be open circuit.



9. Remove the Face Cover of the FAX (1-Line). (The removed parts will not be used.)

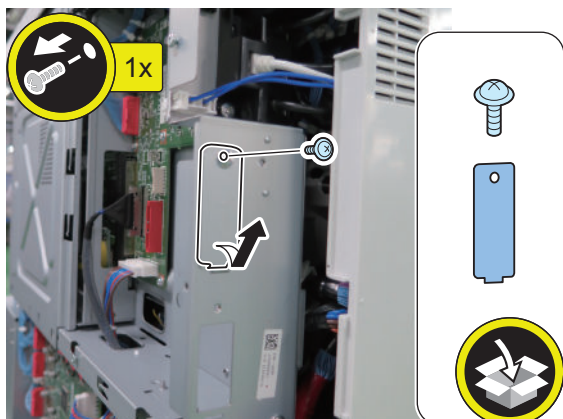
- 1 Screw
- 1 Protrusion





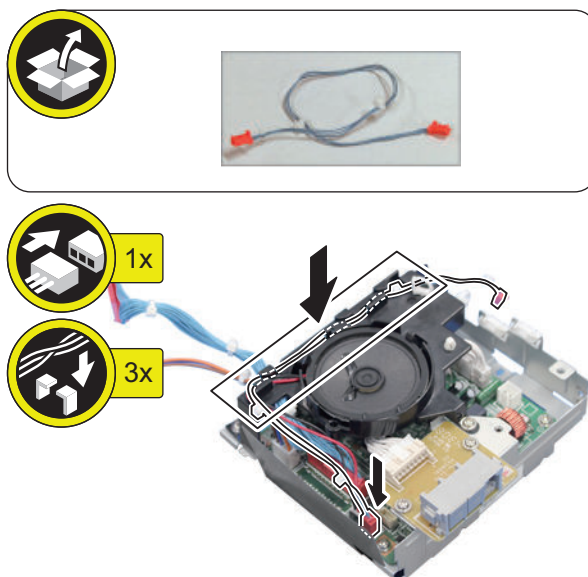
10. Remove the Face Cover of the FAX (2-Line). (The removed parts will not be used.)

- 1 Screw
- 1 Protrusion



2. Install the Signal Cable to the FAX Unit.

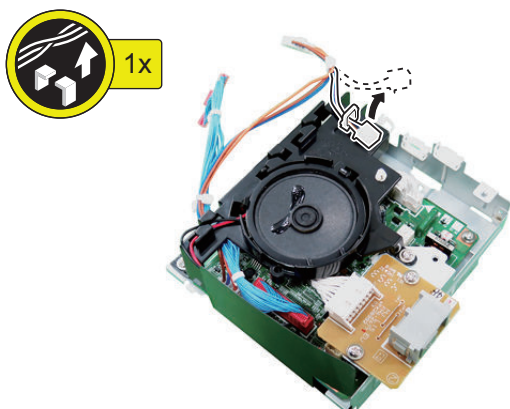
- 3 Cable Guides



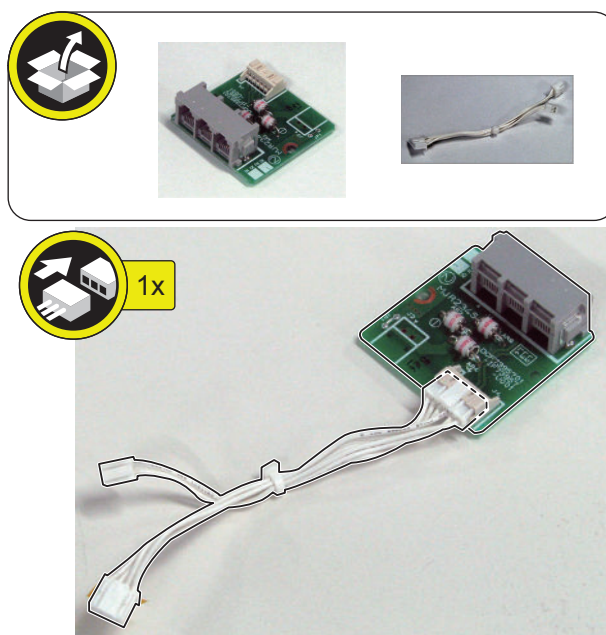
■ Installing the Equipment



1. Free the Cable from the Wire Saddle.



3. Install the Modular Cable to the Modular PCB.

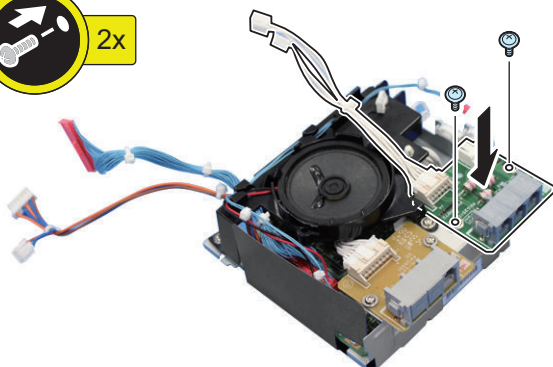


**4. Install the Modular PCB to the FAX Unit.**

- 2 Screws (TP; M3x4)



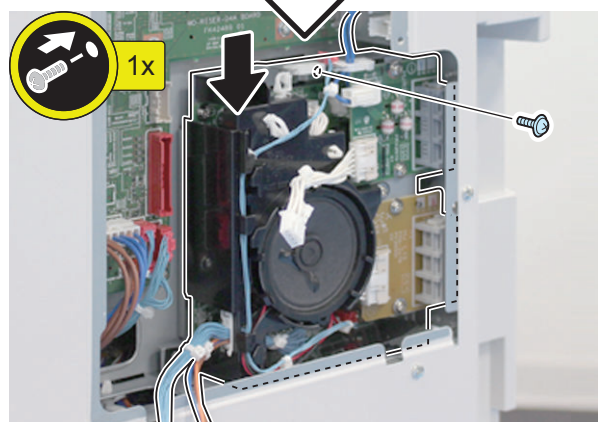
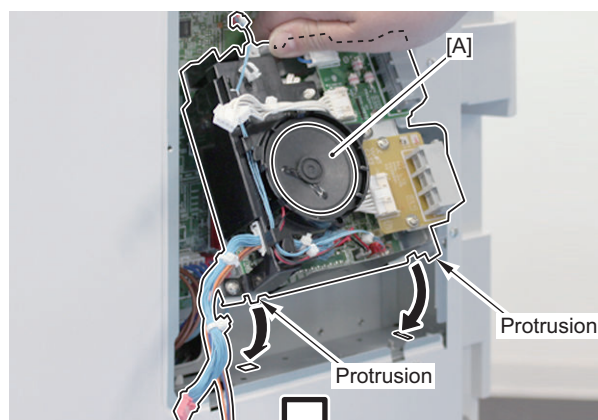
TP; M3x4

**5. Install the FAX Unit to the Host Machine.**

- 2 Protrusions
- 1 Screw (TP; M3x4 Black) (Use the removed screw or those included with the Super G3 FAX Board)

CAUTION:

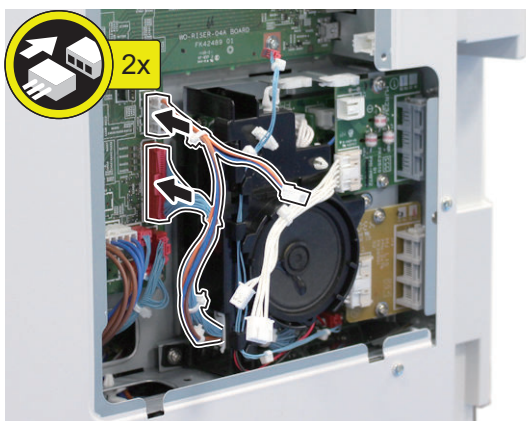
- Be careful not to damage the [A] part of the speaker as the wiring may be broken.
- Be sure to tighten the screw while holding the FAX Unit.
- After tightening the screw of the FAX Unit, check for any backlash. If there is backlash, tighten the screw again with the protrusion precisely fitted.



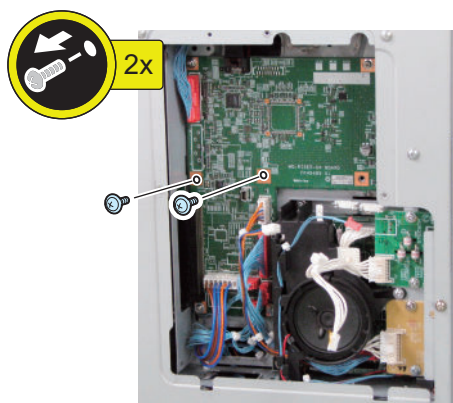


6. Install the 2 Cable of the FAX Unit.

- 2 Connectors

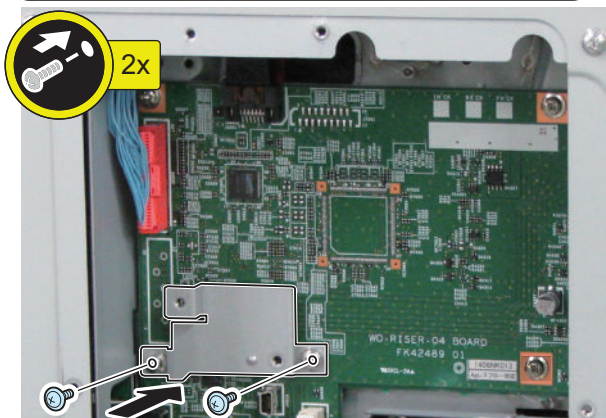
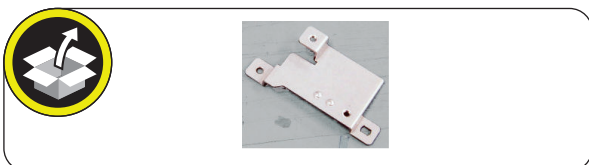


7. Remove the 2 Screws. (will be used in next step)



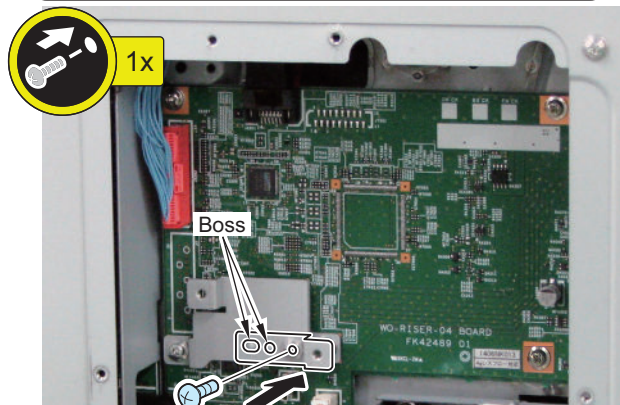
8. Install the FAX Shield Plate.

- 2 Screws (screws removed in the previous step)



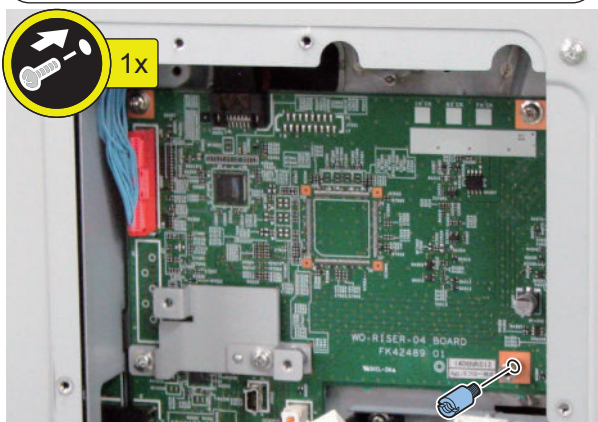
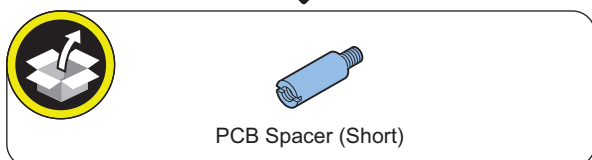
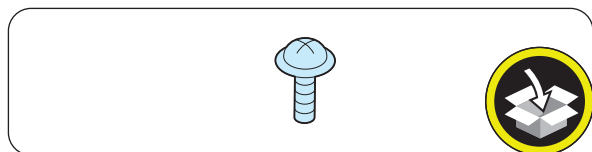
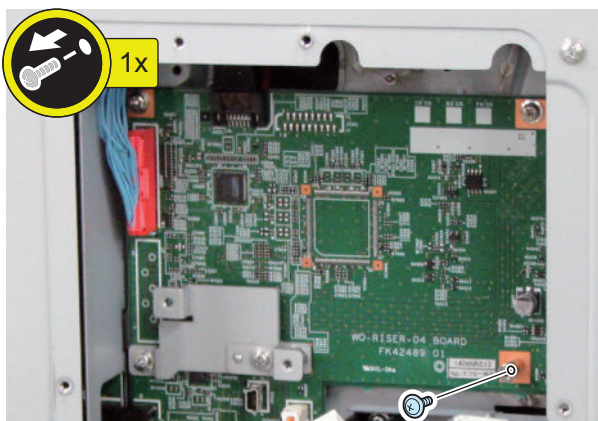
9. Install the FAX Board Fixed Plate.

- 2 Bosses
- 1 Screw (Binding; M4x4)

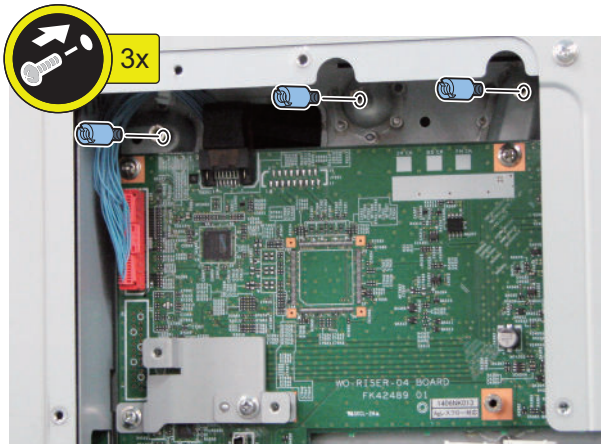
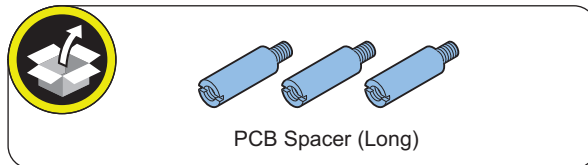




10. Remove the Screw and install the PCB Spacer (Short). (The removed screw will not be used.)



11. Install the 3 PCB Spacers (Long).

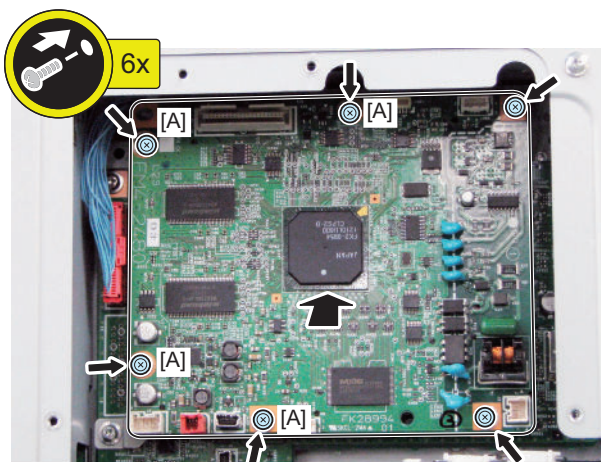
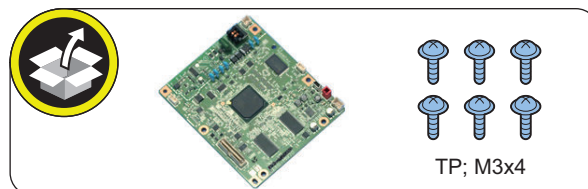


12. Install the G3FAX Expansion PCB.

- 6 Screws (TP; M3x4)

NOTE:

Because the 4 screws [A] need to be removed when installing the Super G3 3rd/4th Line Fax Board at the same time, it is efficient not to tighten them here.



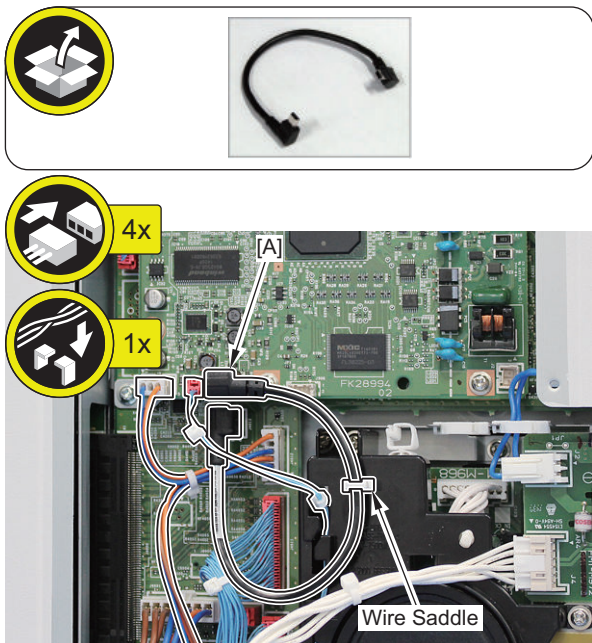


13. Install the Signal Cable, Power Supply Cable and USB Cable to the G3FAX Expansion PCB.

- 1 Wire Saddle

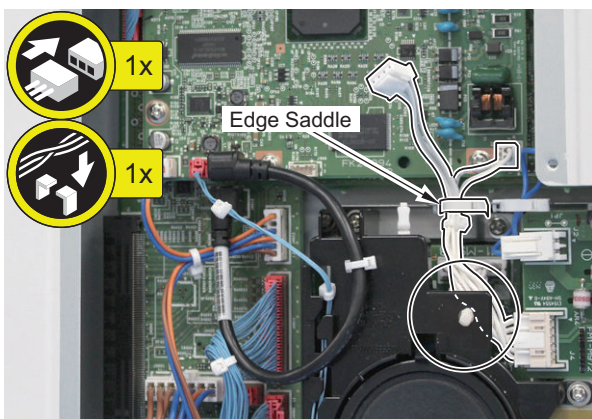
NOTE:

Because [A] of the USB Cable needs to be disconnected when installing the Super G3 3rd/4th Line Fax Board at the same time, it is efficient not to connect it here.



14. Pass the Modular Cable inside the Speaker Holder, and install the G3 FAX Control PCB.

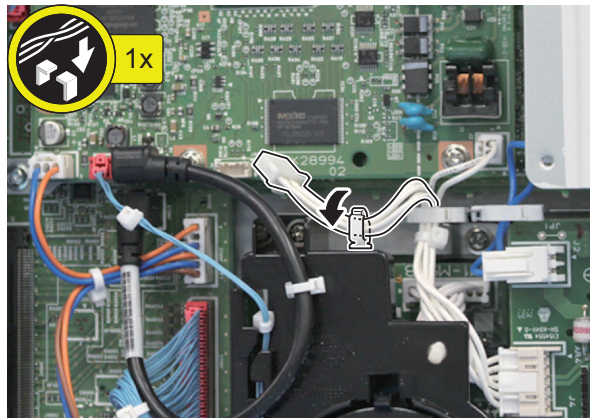
- 1 Edge Saddle



NOTE:

When installing the Super G3 3rd/4th Line Fax Board at the same time, the following step is not necessary.

15. Secure the cable with the Wire Saddle.



■ Subsequent Work

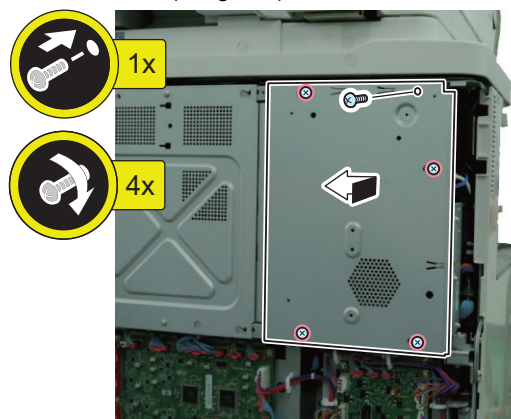


NOTE:

When performing the following steps, it is efficient to install the cover after installing the Super G3 3rd/4th Line Fax Board in case of installing the fax board at the same time.

1. Install the Controller Box Cover.

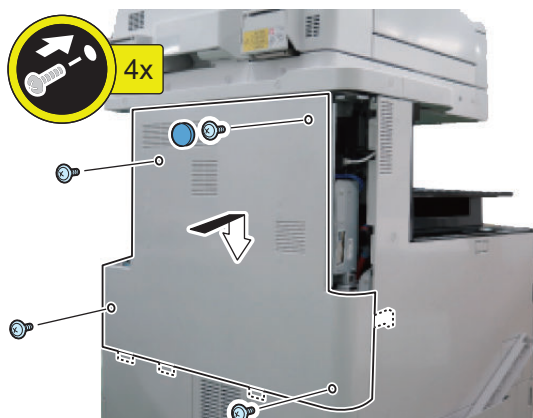
- 1 Screw (to install)
- 4 Screws (to tighten)



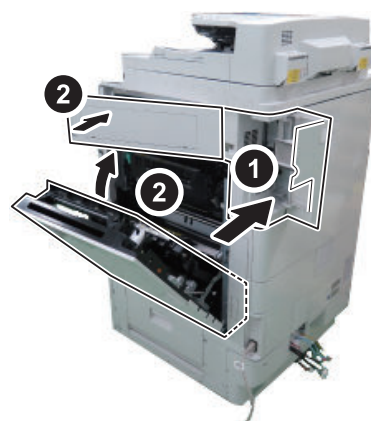


2. Install the Rear Upper Cover.

- 3 Protrusions
- 1 Claw
- 4 Screws
- 1 Rubber Cap

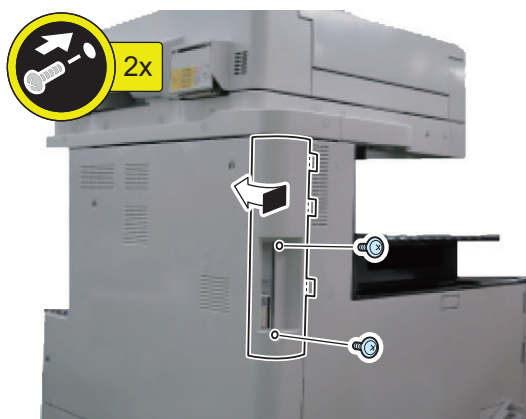


5. Install the Right Rear Cover 1, and close the Right Upper Cover and the Right Lower Cover.



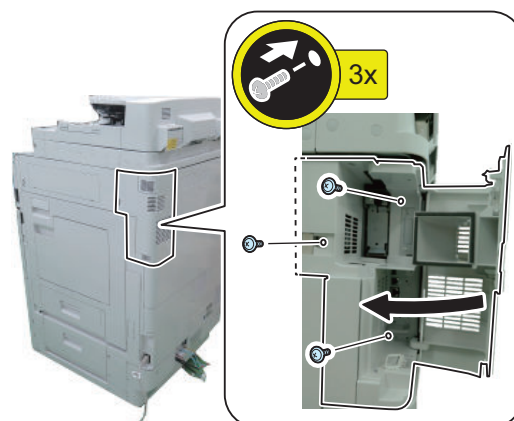
3. Install the Rear Upper Left Cover.

- 3 Protrusions
- 2 Screws

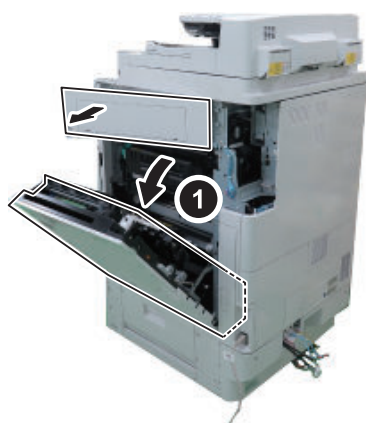


6. Close the Right Rear Cover 1.

- 3 Screws

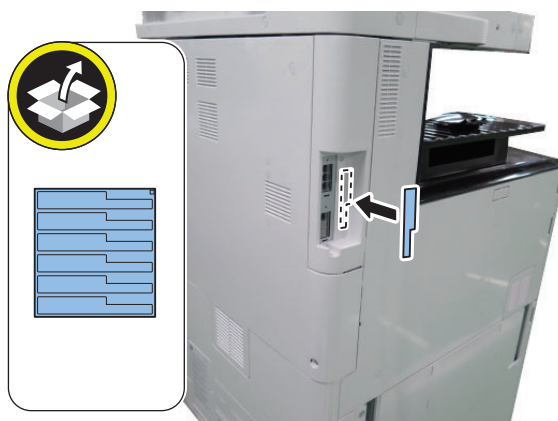


4. Open the Right Lower Cover (the Right Upper Cover will open at the same time).



NOTE:
When installing the G3 3rd/4th Line Fax Board at the same time, this work is not necessary.

7. Affix the appropriate Modular Label to the place shown in the figure. If a label is already affixed, remove it and then affix the appropriate label.



□

NOTE:

The following work is required only when installing the Super G3 FAX Board at the same time.

8. Affix the following FAX Approval Label.



□

9. Connect the Telephone Cord of the FAX (1-Line). When installing this equipment at the same time, connect the other end to the modular jack on the wall.



□

10. Connect the end of the Telephone Cord to the modular jack on the Host machine, and connect the other end to the modular jack on the wall.

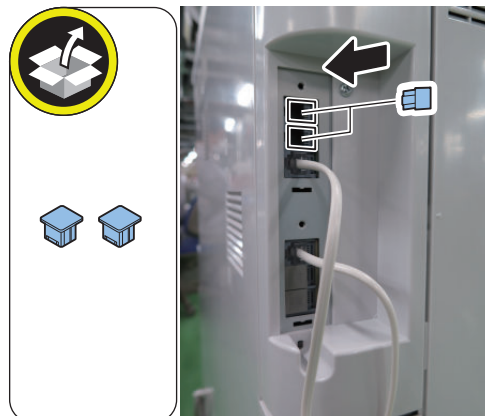


□

NOTE:

When installing the G3 3rd/4th Line Fax Board at the same time, this work is not necessary.

11. Install the Dust Cover.



□

12. Connect the power plug to the outlet.

13. Turn ON the main power switch.

CAUTION:

If the machine does not recognize this equipment, unplug and then plug the power plug after turning OFF the main power switch, or turn OFF the main power switch and then turn it ON within 20 seconds. To avoid this symptom, unplug the power plug or turn the breaker OFF when installing.

14. If a message prompting the user to update the version appears, press [Update] to automatically update the version of this equipment.

NOTE:

If [Skip] is selected, a message prompting the user to update the version will appear every time the host machine is started.

In the service mode (Lv. 2) shown below, it is possible to set not to display the message.

- COPIER > OPTION > FNC-SW > VER-CHNG

Checking the Operation

■ Type Settings

Select the country/region of the FAX Board in Service Mode:
FAX > Type > TYPE

This setting performs the parameter settings to match the communication specification of the country/region.



1. From the following service mode, set the TYPE of country/region to install this machine, and then press OK.

FAX > TYPE > TYPE

2. Confirm that service mode parameter below is "0". In the case, parameter is "1", change to "0".

COPIER > OPTION > DSPLY-SW > SDTM-DSP

NOTE:

To change parameter to "0" makes no show below [Settings/Registration > Preferences > Time/Energy Settings > Auto Shutdown Time] and auto shut down is not available.

3. Turn OFF/ON the main power switch to enable this setting.

■ Basic Settings

NOTE:

When "System Manager Information Settings" is set, be sure to follow the direction of user administrator in order to log in as an administrator.

In this section, make only minimum settings required for FAX communication.



1. Set the user telephone number.

[Settings/Registration] > [Function Settings] > [Send] > [Fax Settings] > [Set Line] > [Line 2] > [Register Unit Telephone Number] > Enter FAX number > [OK]

2. Set the type of telephone line.

[Settings/Registration] > [Function Settings] > [Send] > [Fax Settings] > [Set Line] > [Line 2] > [Select Line Type] > Select the line type to connect > [OK]

3. Turn OFF/ON the main power switch after setting the user telephone numbers and the type of telephone line.

■ FAX Communication Test

Perform communication test to check if FAX function works correctly.



1. Switch the control panel display to Fax display.

2. Select the sending line.

Press [Fax] > [Options] > [Select Line], select the added line, then press [OK] button.

3. Send and receive a test original between the equipment and a remote unit with which a communication test can be performed and check if it can be sent and receive correctly.

1. Press [Status Monitor/Cancel] > [Send] > [Job Log] and select [Fax] from pull down menu.

2. Press [Fax Activity Report] > [OutPut Normally] > [Start Printing].

3. The number printed following colon (:) in "COMM.MODE" field on FAX ACTIVITY REPORT TX/RX shows line type used for sending/receiving. E.g. "ECM:2" => Line 2

NOTE:

If E744-5000 error code (Fax software version mismatch error) occurred while sending or receiving fax, upgrade the firmware of 2-line Fax to the latest version.

Super G3 3rd/4th Line Fax Board-AS1

Product Name

Safety regulations require the product's name to be registered. In some regions where this product is sold, the following name may be registered instead.

- F632503

Points to Note at Installation

- Install this equipment after installing the Super G3 FAX Board and Super G3 2nd Line Fax Board.
- When installing Super G3 2nd Line Fax Board at the same time, start from "Installing the Equipment".
- When installing this equipment later, start from "Preparation".

Essential Items to Be Performed Before Installation

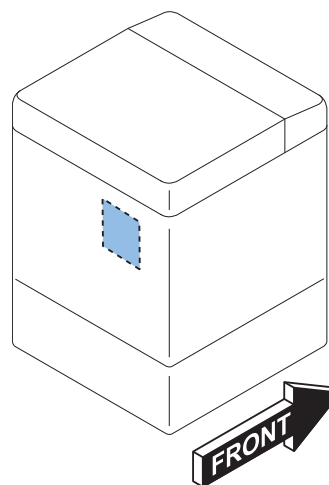
- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:




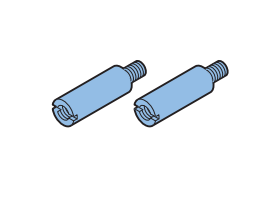
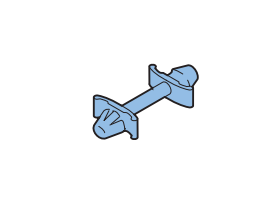
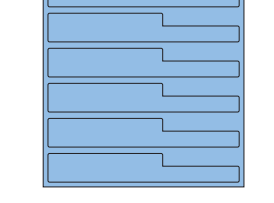
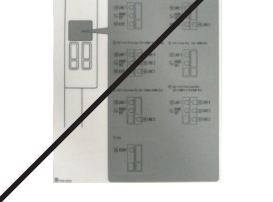
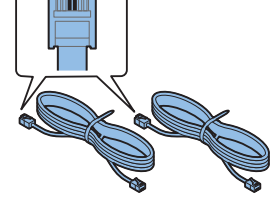
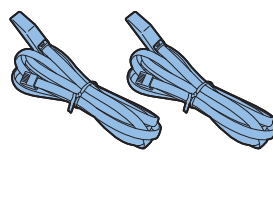
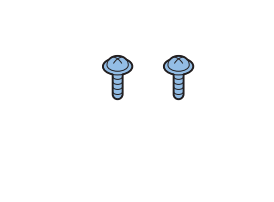
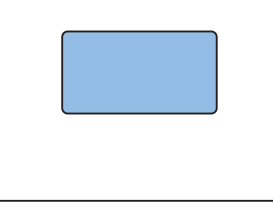
- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Outline Drawing



● Checking the Contents

<input type="checkbox"/> [1] G3FAX Expansion PCB X 1 	<input type="checkbox"/> [2] FAX Shield Plate X 1 
<input type="checkbox"/> [3] FAX Board Fixed Plate X 1 	<input type="checkbox"/> [4] PCB Spacer X 2 
<input type="checkbox"/> [5] Resin Spacer X 1 	<input type="checkbox"/> [6] Modular Label X 1 
<input type="checkbox"/> [7] Modular Label X 1 	<input type="checkbox"/> [8] Telephone Cord X 2 
<input type="checkbox"/> [9] PTT Cable X 2 (only for Asia) 	<input type="checkbox"/> [10] Screw (TP; M3x4) X 2 
<input type="checkbox"/> [11] FAX Approval Label (only for Taiwan) X 1 	

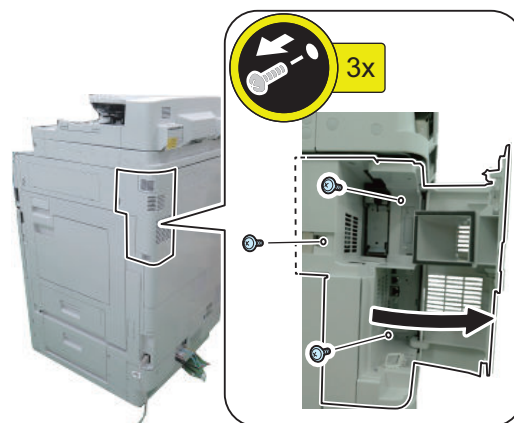
● Installation Procedure

■ Preparation

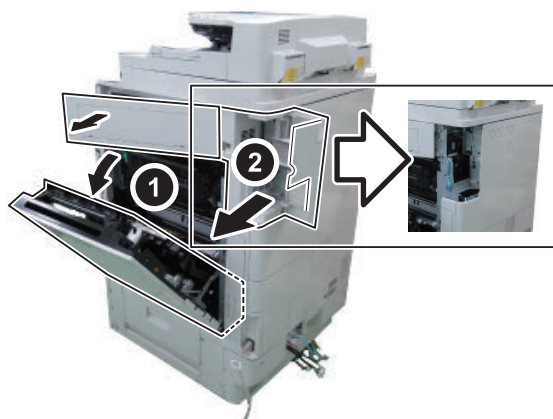
1. Disconnect the Telephone Cord of the FAX (1 / 2-Line).



2. Open the Right Rear Cover 1 and remove the 3 screws.

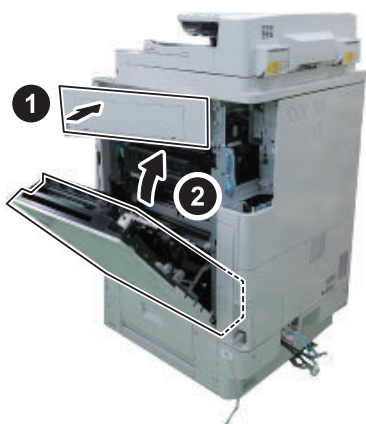


3. Open the Right Lower Cover (the Right Upper Cover will open at the same time), and remove the Right Rear Cover 1.



□

4. Close the Right Upper Cover and the Right Lower Cover.



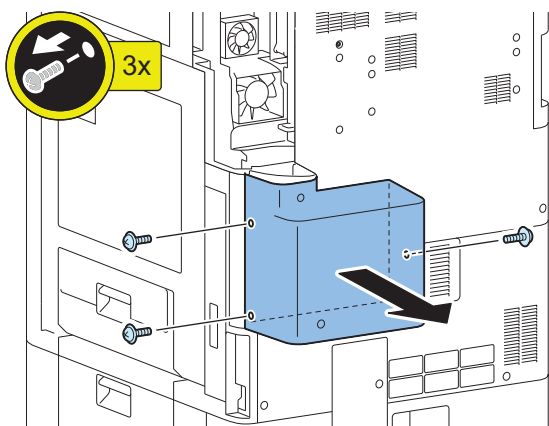
□

NOTE:

This step is for the Duct Model for EUR only.

5. Remove the Duct Lower Cover.

- 3 Screws



□

6. Remove the Rear Upper Left Cover.

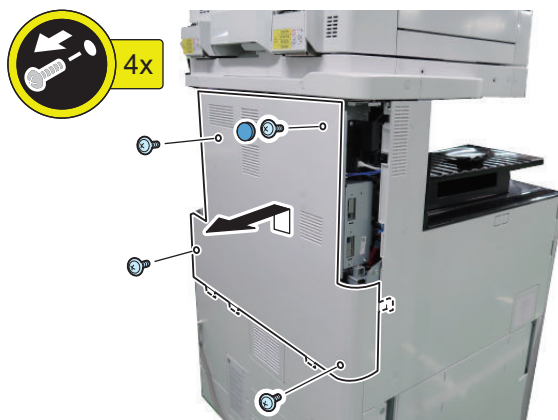
- 2 Screws
- 3 Protrusions



□

7. Remove the Rear Upper Cover.

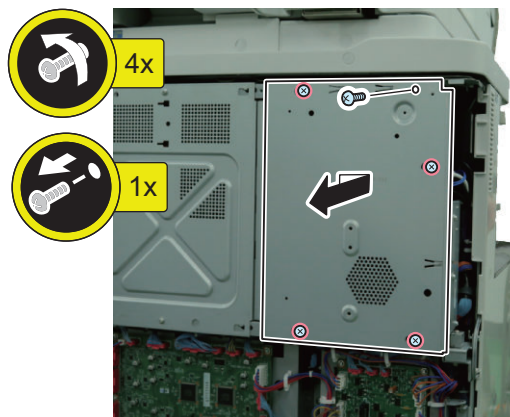
- 1 Rubber Cap
- 4 Screws
- 1 Claw
- 3 Protrusions



□

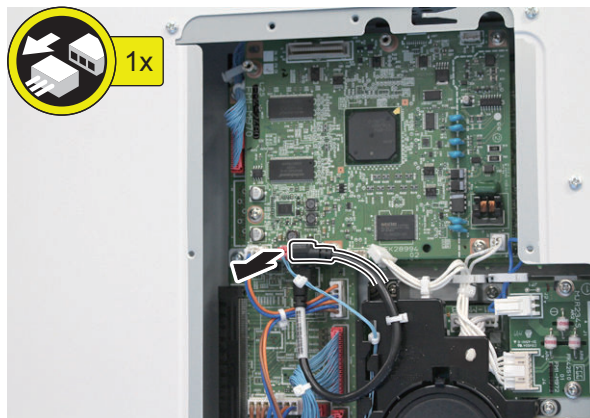
8. Remove the Controller Box Cover.

- 4 Screws (to loosen)
- 1 Screw (to remove)



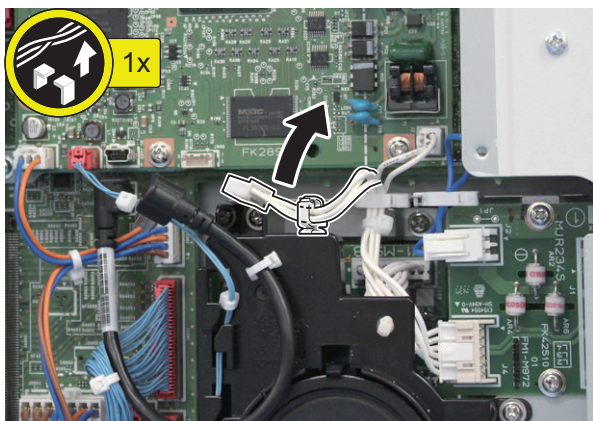
□

9. Disconnect the USB Cable of the G3FAX Expansion PCB side.

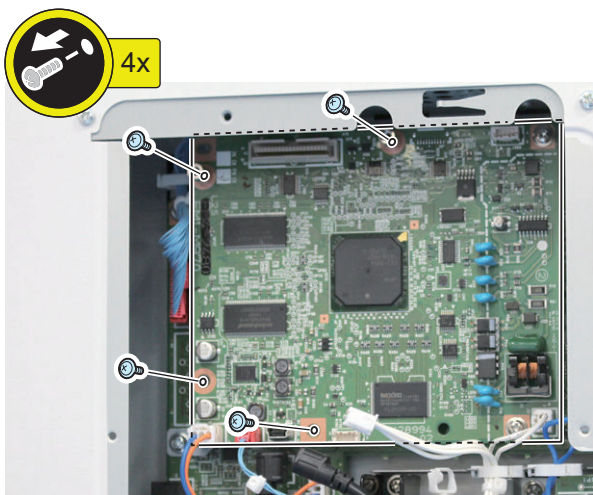




10. Free the Modular Cable from the Wire Saddle. (Close the Wire Saddle.)



11. Remove the 4 Screws. (will be used in Installing the Equipment)

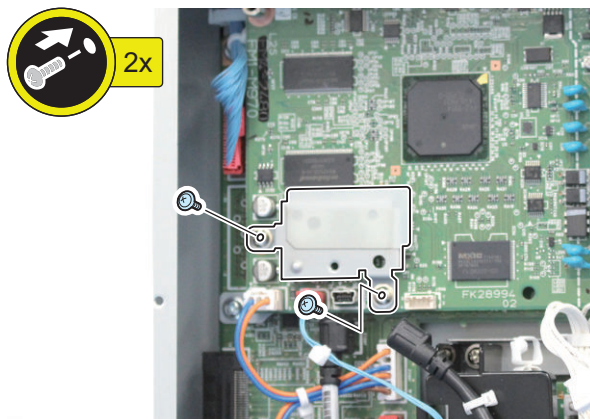
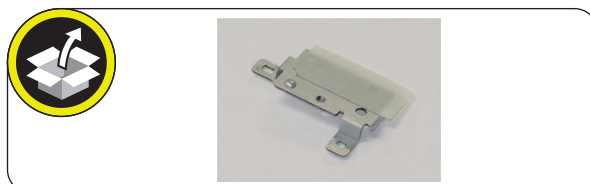


■ Installing the Equipment



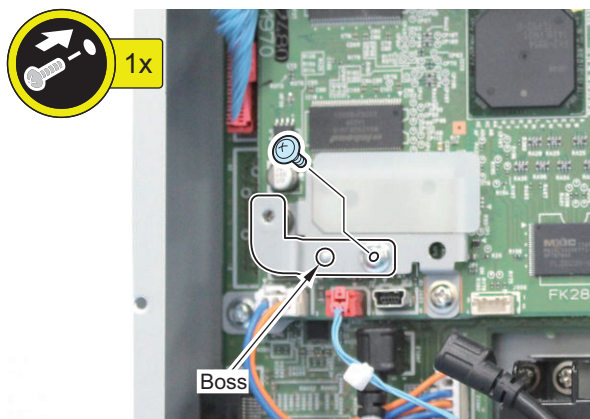
1. Install the FAX Shield Plate.

- 2 Screws (Use the removed screws or TP; M3x4 included with the FAX (2-Line))



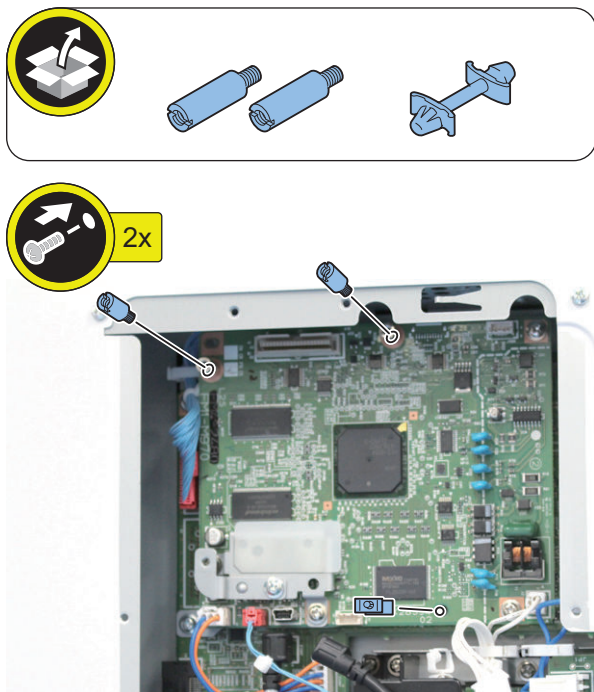
2. Install the FAX Board Fixed Plate.

- 1 Boss
- 1 Screw (TP; M3x4)



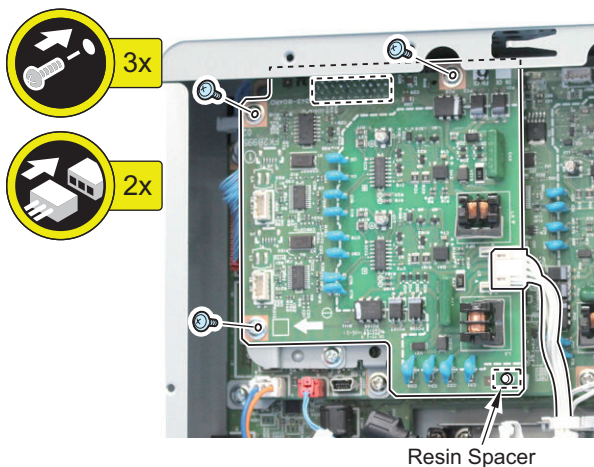
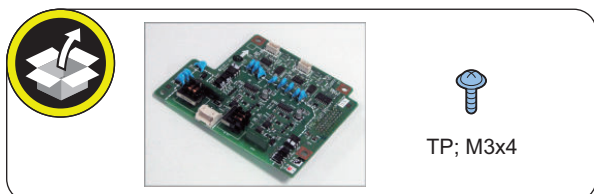


3. Install the 2 PCB Spacers and Resin Spacer.

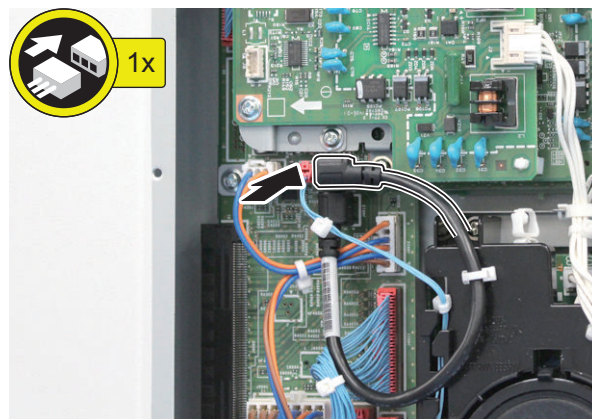


4. Install the G3FAX Expansion PCB.

- Upper Side: 2 Screws (Use the removed screws or TP; M3x4 included with the FAX (2-Line))
- Lower Side: 1 Screw (TP; M3x4)
- 1 Resin Spacer
- 2 Connectors



5. Connect the USB Cable.

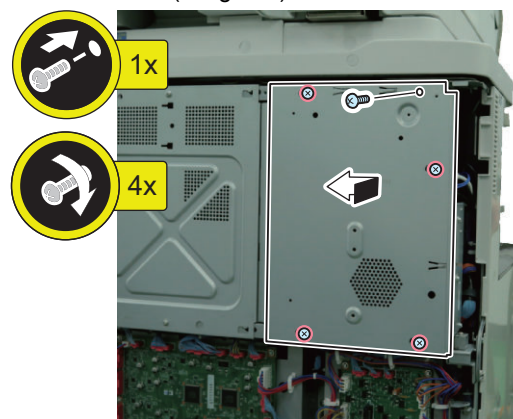


■ Subsequent Work



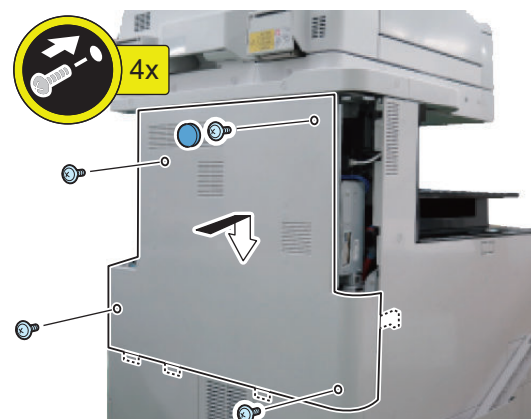
1. Install the Controller Box Cover.

- 1 Screw (to install)
- 4 Screws (to tighten)



2. Install the Rear Upper Cover.

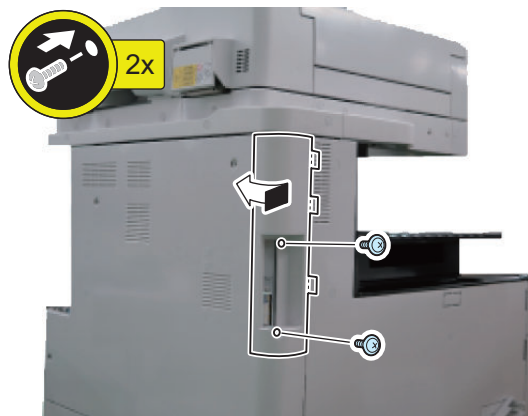
- 3 Protrusions
- 1 Claw
- 4 Screws
- 1 Rubber Cap



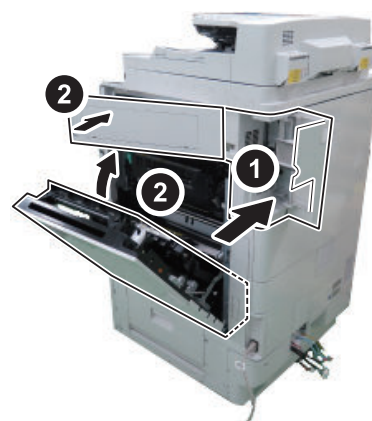


3. Install the Rear Upper Left Cover.

- 3 Protrusions
- 2 Screws



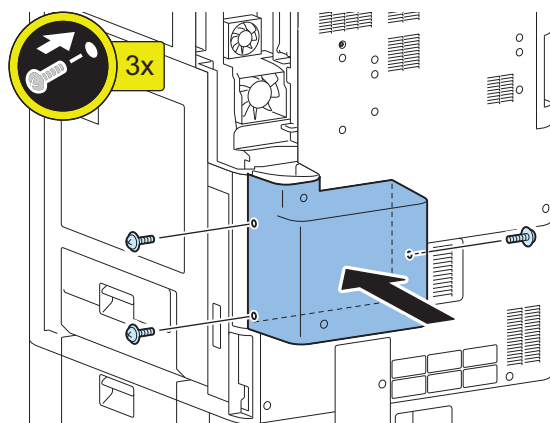
6. Install the Right Rear Cover 1, and close the Right Upper Cover and the Right Lower Cover.



NOTE:
This step is for the Duct Model for EUR only.

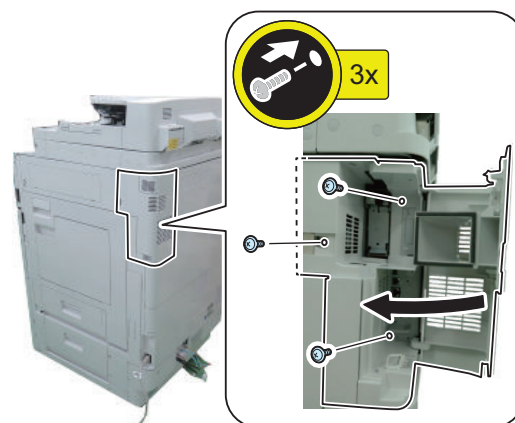
4. Install the Duct Lower Cover.

- 3 Screws

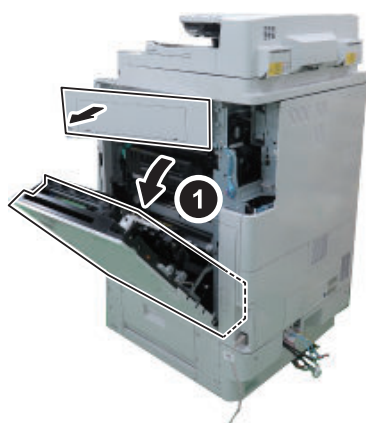


7. Close the Right Rear Cover 1.

- 3 Screws



5. Open the Right Lower Cover (the Right Upper Cover will open at the same time).

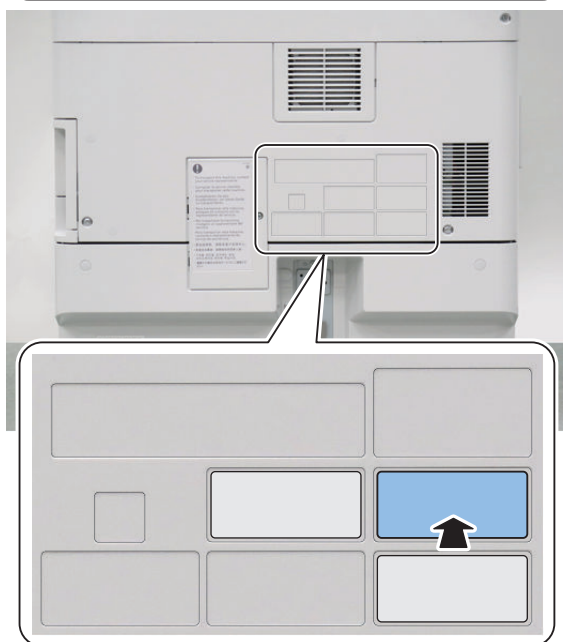
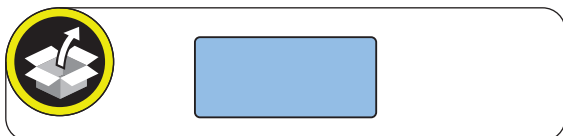




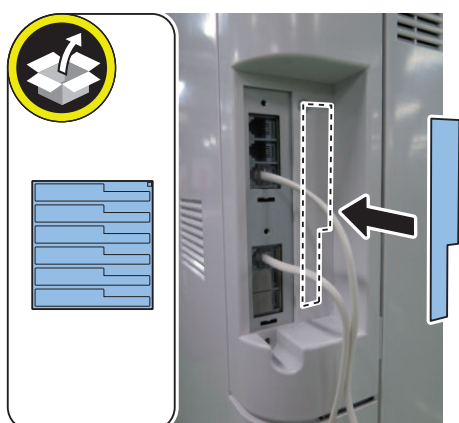
NOTE:

This step is only for Taiwan.

8. Affix the following FAX Approval Label.



9. Affix the appropriate Modular Label to the place shown in the figure. If a label is already affixed, remove it and then affix the appropriate label.



10. Remove the 2 Dust Covers if installed.

CAUTION:

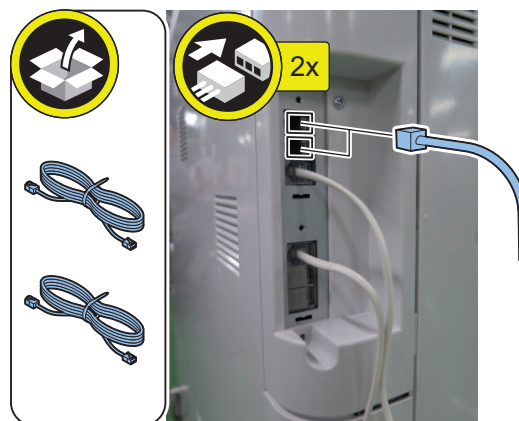
Do not insert a screwdriver, etc. into the modular terminal.

NOTE:

Keep the removed Dust Cover.



11. Connect one of the 2 Telephone Cords or the 2 PTT Cables to the modular jack on the host machine and the other cord to the modular jack on the wall.



12. Connect the power plug to the outlet.

13. Turn ON the main power switch.

CAUTION:

If the machine does not recognize this equipment, unplug and then plug the power plug after turning OFF the main power switch, or turn OFF the main power switch and then turn it ON within 20 seconds.

To avoid this symptom, unplug the power plug or turn the breaker OFF when installing.

If the host machine still does not recognize this equipment after performing the foregoing remedy: In the case of installing the Super G3 Fax Board (1-Line) and the Super G3 2nd Line Fax Board at the same time, it is necessary to turn OFF and then ON the power three times in some cases (no message is displayed on the Control Panel).

Checking the Operation

■ Type Settings

Select the country/region of the FAX Board in Service Mode: FAX > Type > TYPE

This setting performs the parameter settings to match the communication specification of the country/region.



1. From the following service mode, set the TYPE of country/region to install this machine, and then press OK.
 - Service Mode > FAX > Type > TYPE
2. Confirm that service mode parameter below is "0". In the case, parameter is "1", change to "0".
 - COPIER > OPTION > DSPLY-SW > SDTM-DSP

NOTE:

To change parameter to "0" makes no show below [Settings/Registration > Preferences > Time/Energy Settings > Auto Shutdown Time] and auto shut down is not available.

3. Turn OFF/ON the main power switch to enable this setting.

■ Basic Settings

NOTE:

When "System Manager Information Settings" is set, be sure to follow the direction of user administrator in order to log in as an administrator.

In this section, make only minimum settings required for FAX communication.



1. Set the user telephone number.

[Settings/Registration] > [Function Settings] > [Send] > [Fax Settings] > [Set Line] > [Line 3]/[Line 4] > [Register Unit Telephone Number] > Enter FAX number > [OK]

2. Set the type of telephone line.

[Settings/Registration] > [Function Settings] > [Send] > [Fax Settings] > [Set Line] > [Line 3]/[Line 4] > [Select Line Type] > Select the line type to connect > [OK]

3. Turn OFF/ON the main power switch after setting the user telephone numbers and the type of telephone line.

■ FAX Communication Test

Perform communication test to check if FAX function works correctly.



1. Switch the control panel display to Fax display.
2. Select the sending line.

Press [Fax] > [Options] > [Select Line], select the added line, then press [OK] button.
3. Send and receive a test original between the equipment and a remote unit with which a communication test can be performed and check if it can be sent and receive correctly.
 1. Press [Status Monitor/Cancel] > [Send] > [Job Log] and select [Fax] from pull down menu.
 2. Press [Fax Activity Report] > [OutPut Normally] > [Start Printing].
 3. The number printed following colon (:) in "COMM.MODE" field on FAX ACTIVITY REPORT TX/RX shows line type used for sending/receiving. E.g. "ECM:3" => Line 3

Super G3 3rd4th Line Fax Board-AS2

Product Name

Safety regulations require the product's name to be registered. In some regions where this product is sold, the following name may be registered instead.

- F632503

Points to Note at Installation

- Install this equipment after installing the Super G3 FAX Board and Super G3 2nd Line Fax Board.
- When installing Super G3 2nd Line Fax Board at the same time, start from "Installing the Equipment".
- When installing this equipment later, start from "Preparation".

Essential Items to Be Performed Before Installation

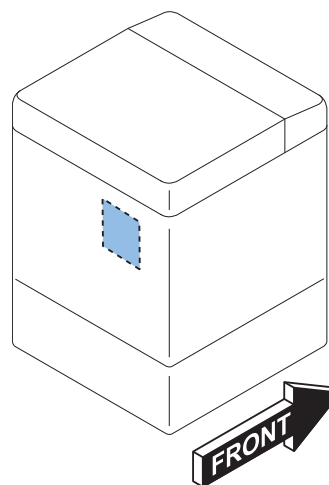
- Turn OFF the main power of the host machine, and disconnect the power plug from the outlet.

⚠ WARNING:




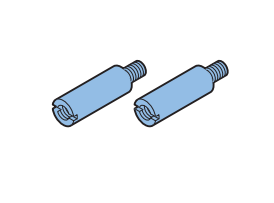
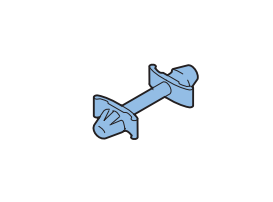
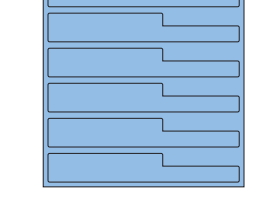
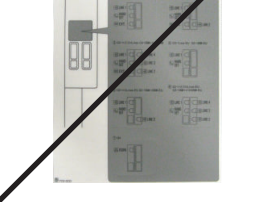
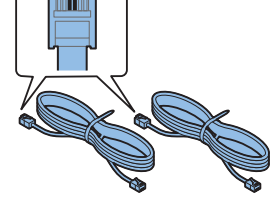
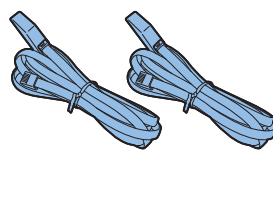
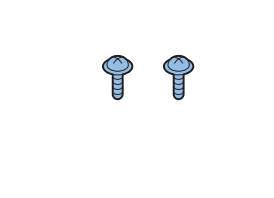
- If performing work without disconnecting the power plug of the host machine, it may cause electrical shock.
- If disconnecting the power plug without turning OFF the main power, it may cause damage of the machine.

- When turning OFF the main power, follow the below procedure.
 1. Turn OFF the main power switch of the host machine.
 2. The display in the Control Panel and the lamp of the main power are turned off.

Installation Outline Drawing



Checking the Contents

<input type="checkbox"/> [1] G3FAX Expansion PCB X 1 	<input type="checkbox"/> [2] FAX Shield Plate X 1 
<input type="checkbox"/> [3] FAX Board Fixed Plate X 1 	<input type="checkbox"/> [4] PCB Spacer X 2 
<input type="checkbox"/> [5] Resin Spacer X 1 	<input type="checkbox"/> [6] Modular Label X 1 
<input type="checkbox"/> [7] Modular Label X 1 	<input type="checkbox"/> [8] Telephone Cord X 2 
<input type="checkbox"/> [9] PTT Cable X 2 (only for Asia) 	<input type="checkbox"/> [10] Screw (TP; M3x4) X 2 

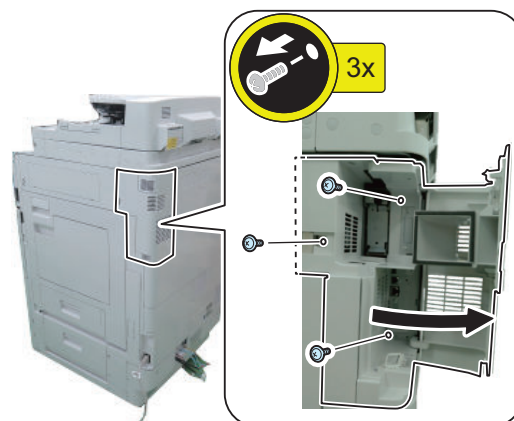
Installation Procedure

Preparation

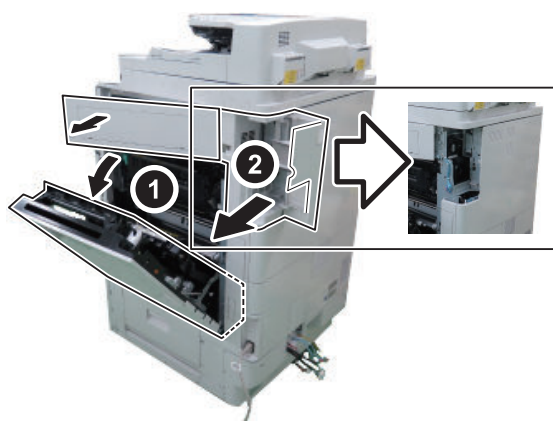
1. Disconnect the Telephone Cord of the FAX (1 / 2-Line).



2. Open the Right Rear Cover 1 and remove the 3 screws.

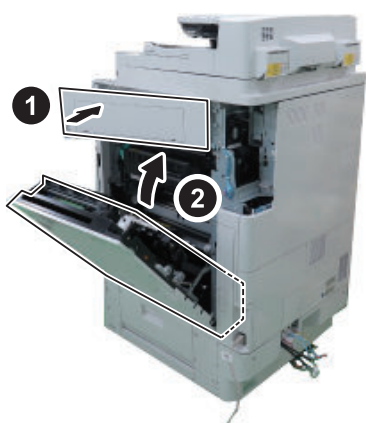


3. Open the Right Lower Cover (the Right Upper Cover will open at the same time), and remove the Right Rear Cover 1.



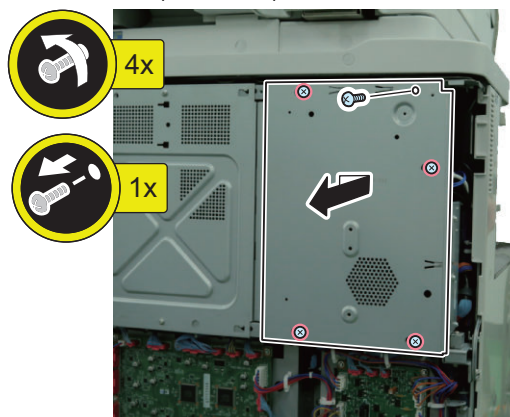


4. Close the Right Upper Cover and the Right Lower Cover.



7. Remove the Controller Box Cover.

- 4 Screws (to loosen)
- 1 Screw (to remove)

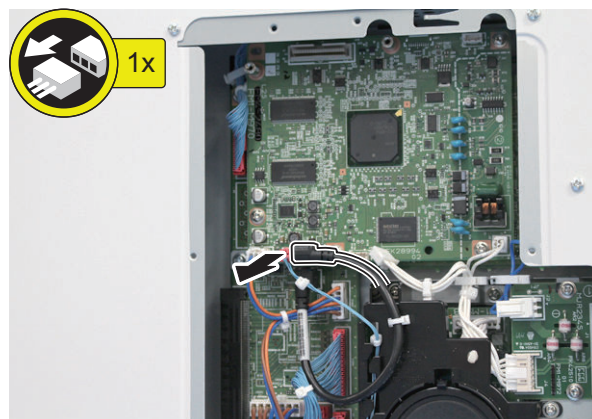


5. Remove the Rear Upper Left Cover.

- 2 Screws
- 3 Protrusions

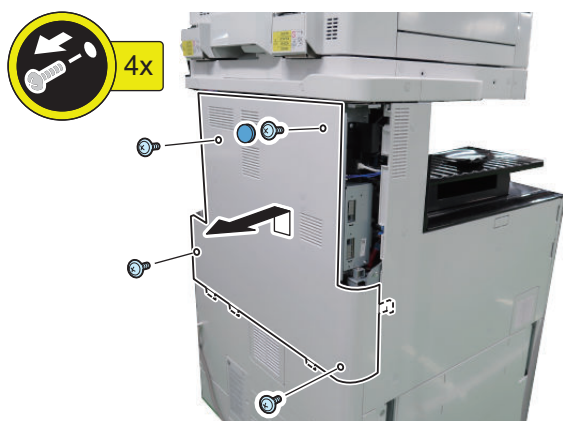


8. Disconnect the USB Cable of the G3FAX Expansion PCB side.

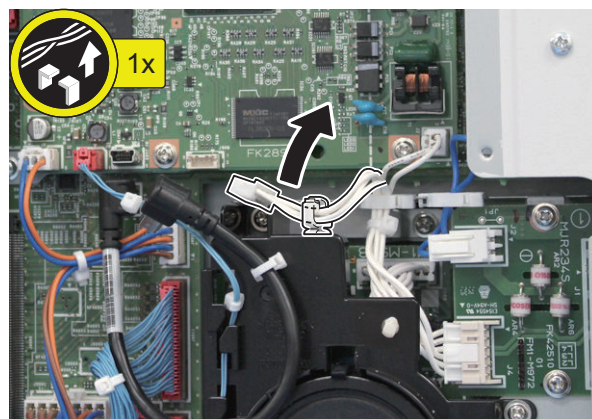


6. Remove the Rear Upper Cover.

- 1 Rubber Cap
- 4 Screws
- 1 Claw
- 3 Protrusions

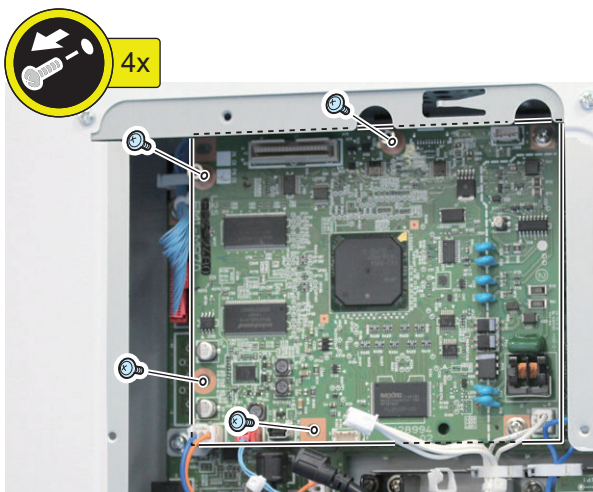


9. Free the Modular Cable from the Wire Saddle. (Close the Wire Saddle.)





10. Remove the 4 Screws. (will be used in Installing the Equipment)

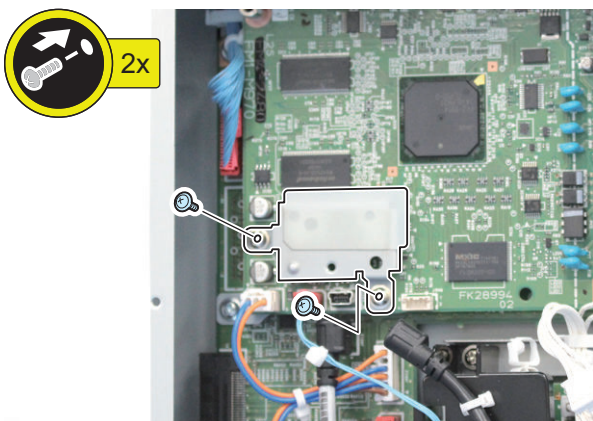
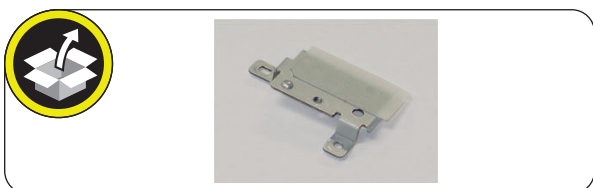


■ Installing the Equipment



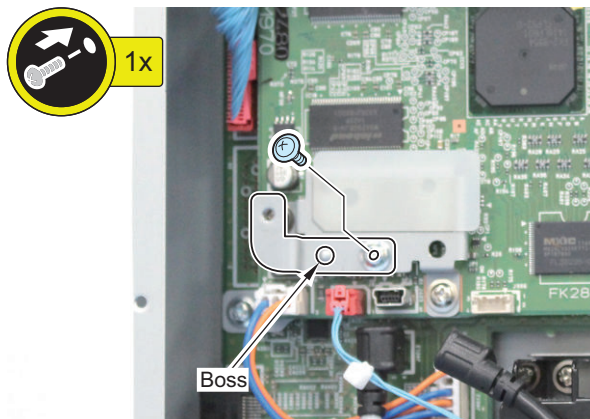
1. Install the FAX Shield Plate.

- 2 Screws (Use the removed screws or TP; M3x4 included with the FAX (2-Line))

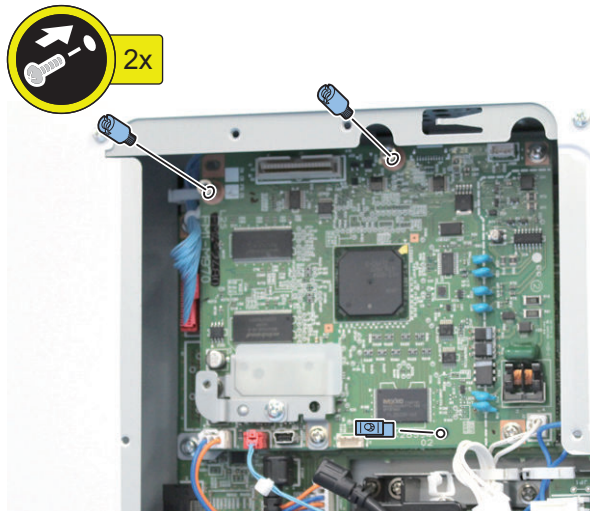
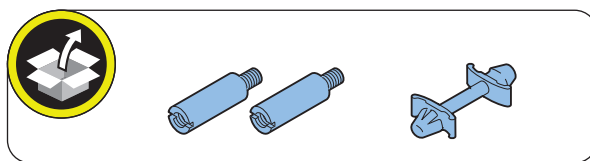


2. Install the FAX Board Fixed Plate.

- 1 Boss
- 1 Screw (TP; M3x4)



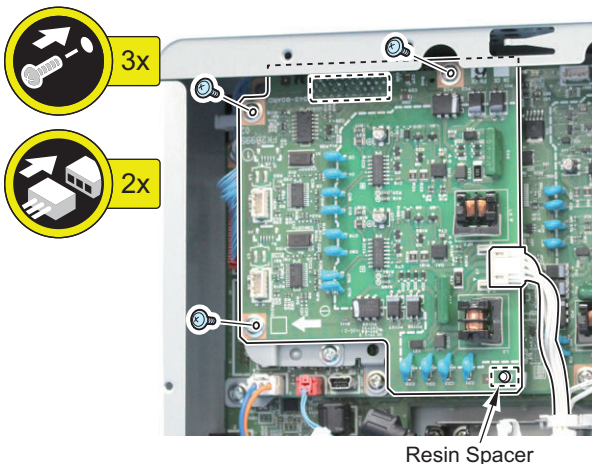
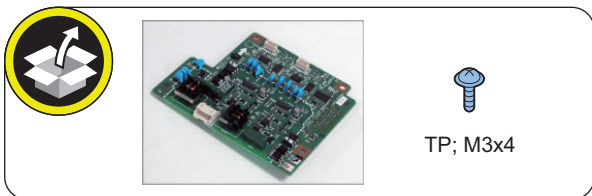
3. Install the 2 PCB Spacers and Resin Spacer.



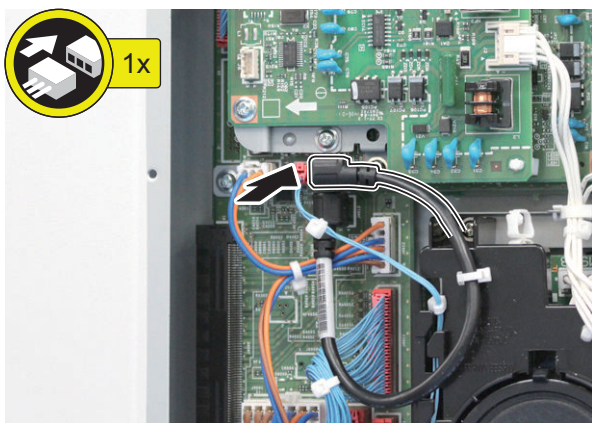


4. Install the G3FAX Expansion PCB.

- Upper Side: 2 Screws (Use the removed screws or TP; M3x4 included with the FAX (2-Line))
- Lower Side: 1 Screw (TP; M3x4)
- 1 Resin Spacer
- 2 Connectors



5. Connect the USB Cable.

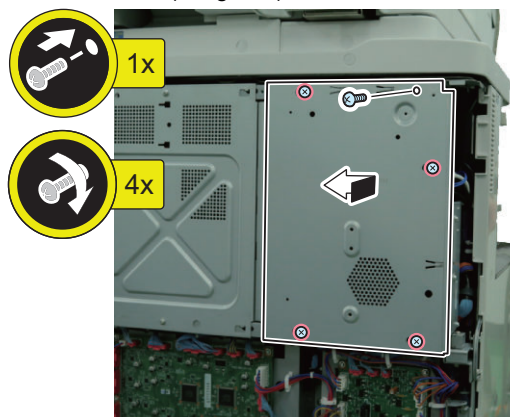


■ Subsequent Work



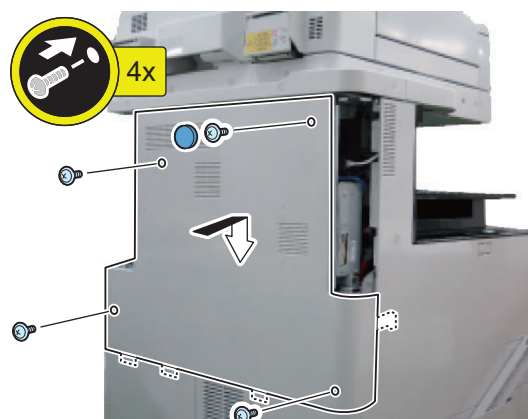
1. Install the Controller Box Cover.

- 1 Screw (to install)
- 4 Screws (to tighten)



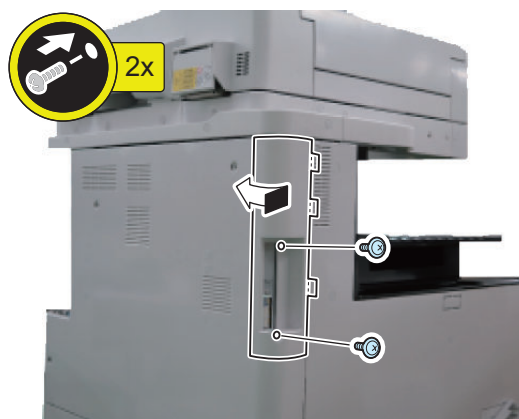
2. Install the Rear Upper Cover.

- 3 Protrusions
- 1 Claw
- 4 Screws
- 1 Rubber Cap

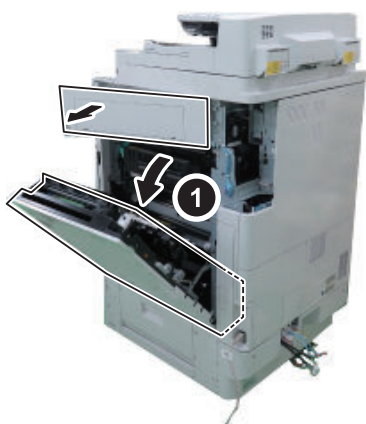


3. Install the Rear Upper Left Cover.

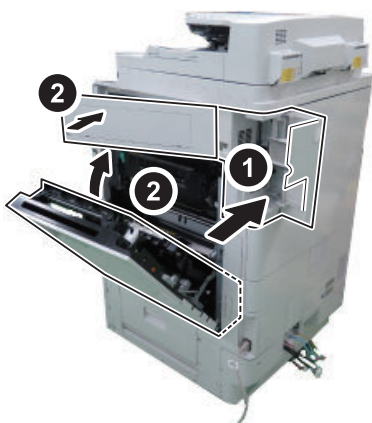
- 3 Protrusions
- 2 Screws



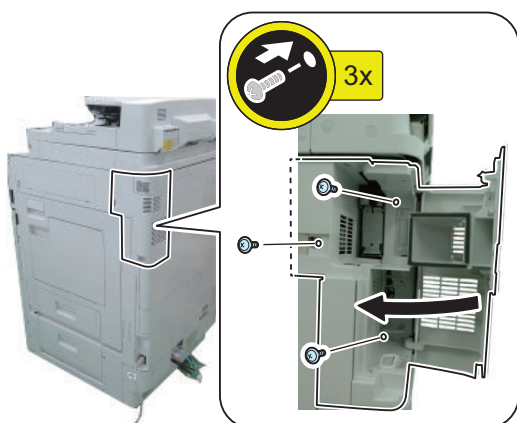
- 4. Open the Right Lower Cover (the Right Upper Cover will open at the same time).



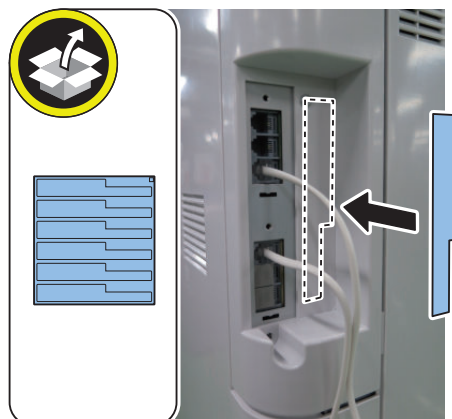
- 5. Install the Right Rear Cover 1, and close the Right Upper Cover and the Right Lower Cover.



- 6. Close the Right Rear Cover 1.
 - 3 Screws



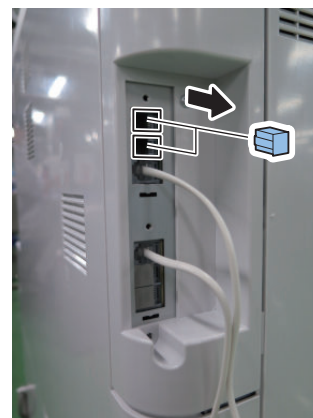
- 7. Affix the appropriate Modular Label to the place shown in the figure. If a label is already affixed, remove it and then affix the appropriate label.



- 8. Remove the 2 Dust Covers if installed.

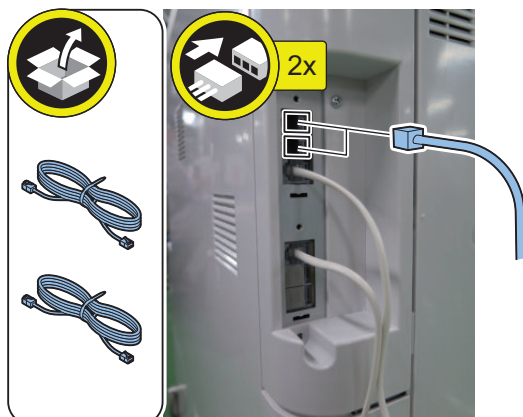
CAUTION:
Do not insert a screwdriver, etc. into the modular terminal.

NOTE:
Keep the removed Dust Cover.





9. Connect one of the 2 Telephone Cords or the 2 PTT Cables to the modular jack on the host machine and the other cord to the modular jack on the wall.



10. Connect the power plug to the outlet.
11. Turn ON the main power switch.

CAUTION:

If the machine does not recognize this equipment, unplug and then plug the power plug after turning OFF the main power switch, or turn OFF the main power switch and then turn it ON within 20 seconds.

To avoid this symptom, unplug the power plug or turn the breaker OFF when installing.

If the host machine still does not recognize this equipment after performing the foregoing remedy: In the case of installing the Super G3 Fax Board (1-Line) and the Super G3 2nd Line Fax Board at the same time, it is necessary to turn OFF and then ON the power three times in some cases (no message is displayed on the Control Panel).

● Checking the Operation

■ Type Settings

Select the country/region of the FAX Board in Service Mode:
FAX > Type > TYPE

This setting performs the parameter settings to match the communication specification of the country/region.



1. From the following service mode, set the TYPE of country/region to install this machine, and then press OK.
- Service Mode > FAX > Type > TYPE

2. Confirm that service mode parameter below is "0".
In the case, parameter is "1", change to "0".

- COPIER > OPTION > DSPLY-SW > SDTM-DSP

NOTE:

To change parameter to "0" makes no show below [Settings/Registration > Preferences > Time/Energy Settings > Auto Shutdown Time] and auto shut down is not available.

3. Turn OFF/ON the main power switch to enable this setting.

■ Basic Settings

NOTE:

When "System Manager Information Settings" is set, be sure to follow the direction of user administrator in order to log in as an administrator.

In this section, make only minimum settings required for FAX communication.



1. Set the user telephone number.
[Settings/Registration] > [Function Settings] > [Send] > [Fax Settings] > [Set Line] > [Line 3]/[Line 4] > [Register Unit Telephone Number] > Enter FAX number > [OK]
2. Set the type of telephone line.
[Settings/Registration] > [Function Settings] > [Send] > [Fax Settings] > [Set Line] > [Line 3]/[Line 4] > [Select Line Type] > Select the line type to connect > [OK]
3. Turn OFF/ON the main power switch after setting the user telephone numbers and the type of telephone line.

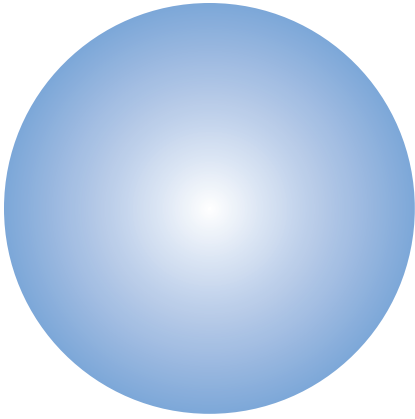
■ FAX Communication Test

Perform communication test to check if FAX function works correctly.



1. Switch the control panel display to Fax display.
2. Select the sending line.
Press [Fax] > [Options] > [Select Line], select the added line, then press [OK] button.
3. Send and receive a test original between the equipment and a remote unit with which a communication test can be performed and check if it can be sent and receive correctly.
 1. Press [Status Monitor/Cancel] > [Send] > [Job Log] and select [Fax] from pull down menu.
 2. Press [Fax Activity Report] > [OutPut Normally] > [Start Printing].

3. The number printed following colon (:) in "COMM.MODE" field on FAX ACTIVITY REPORT TX/RX shows line type used for sending/receiving. E.g. "ECM:3" => Line 3



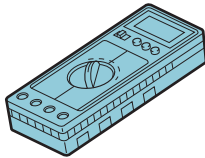

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Service Tools

List of Special Tools

When servicing this machine, the special tools shown below are required besides the standard tools.

Tool name	Tool No.	Rank	Configuration	Use/Remarks
Digital multi-meter	FY9-2002	A		Used for supplementary electricity check of the electricity check
CA-7 Test Sheet	FY9-9323	A		For image adjustment/check

Reference: Rank

A: Tool each service engineers should have 1 pc per engineer

B: Tool a group of approx. 5 engineers should have 1 pc per group

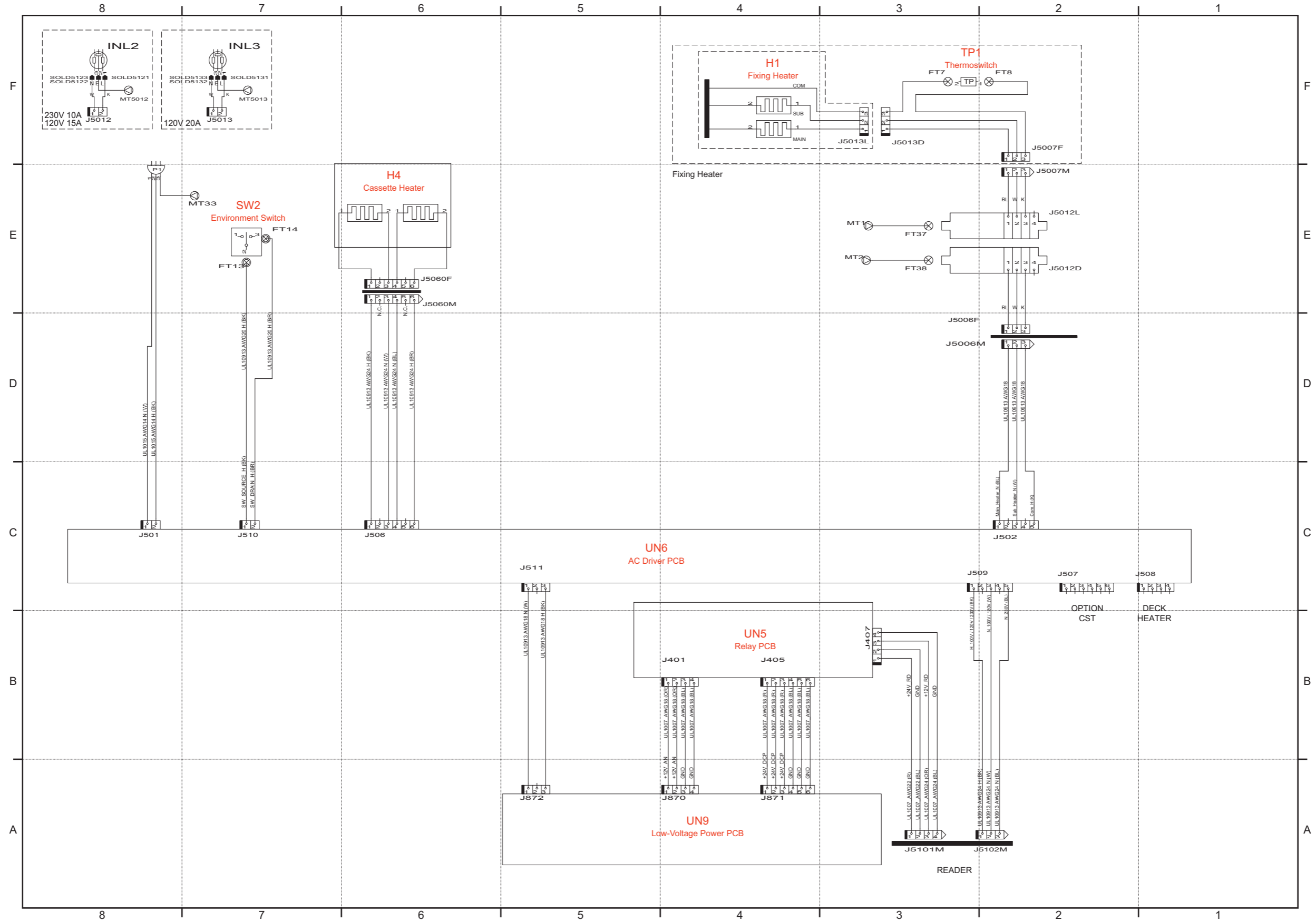
Solvent/Oil List

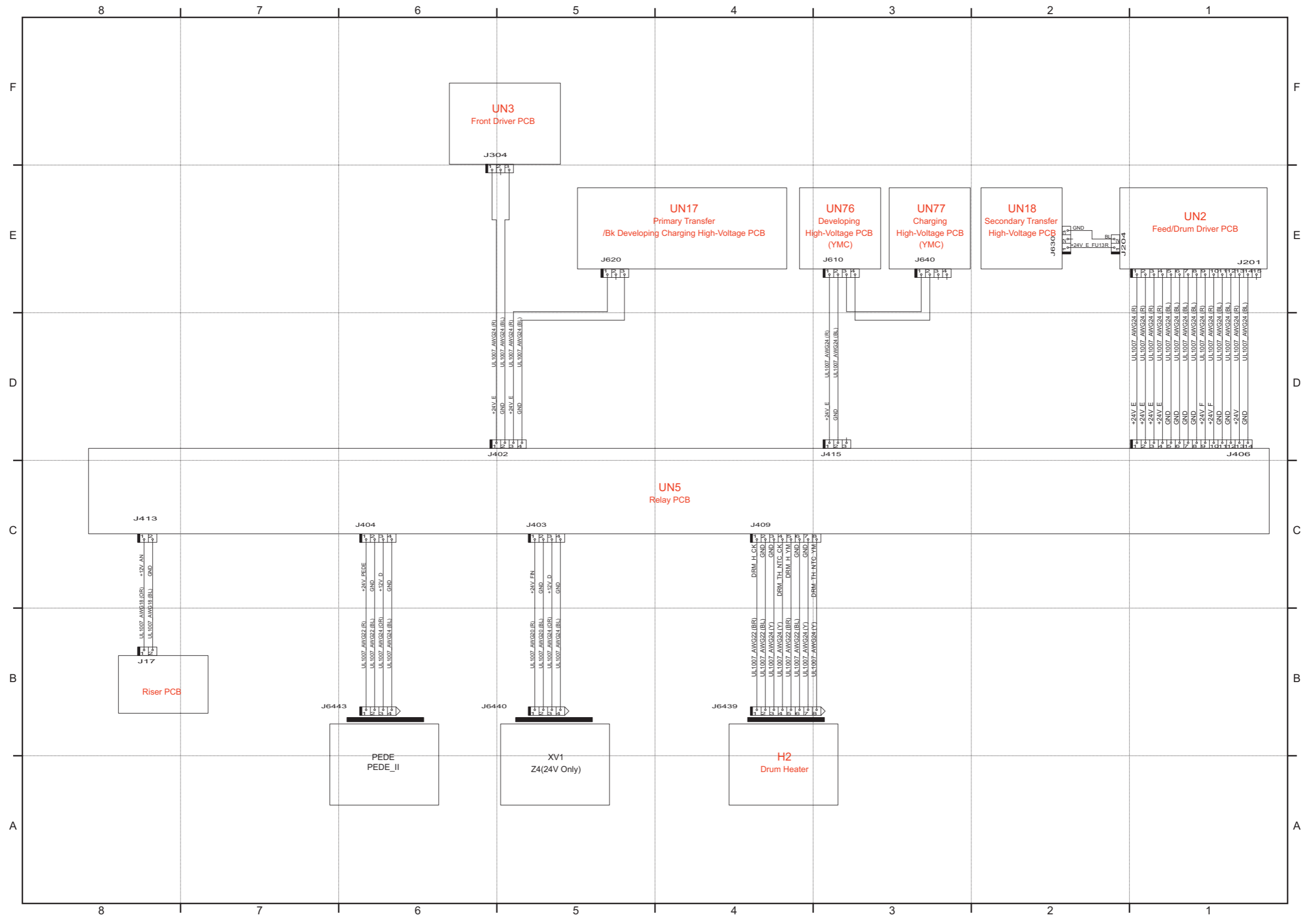
Name	Purpose of use	Parts number	Remarks
Alcohol	Cleaning	-	<ul style="list-style-type: none"> • Never put it close to fire • Local procurement
MOLYKOTE EM-50L	Apply to gear	HY9-0007	<ul style="list-style-type: none"> • Dow Corning-made
Super Lube Grease	Worm Gear	FY9-6005	<ul style="list-style-type: none"> • Chemical synthesis oil • 85 g
Lubricant (FLOIL G-337)	Scanner Rail	FY9-6030	<ul style="list-style-type: none"> • Synthetic hydrocarbon oil • 50 cc
Conductive grease	Applied to the Drum Heater sliding area and the ends of the Secondary Transfer Outer Roller, Electrical continuity of the high voltage contact point	FY9-6008	<ul style="list-style-type: none"> • Barrierta IMI (10 g)
	Applied to the ends of the Secondary Transfer Inner Roller	FY9-6006	<ul style="list-style-type: none"> • Super Lube Grease (7 g)
Tospearl 240	Lubrication of the ITB Cleaning Blade	FY9-6007	
SE1107	Applied to the gear of the Fixing Unit or the Fixing Pressure Roller Shaft	FY9-6036	<ul style="list-style-type: none"> • 10 g
MOLYKOTE HP-300	Applied to the Fixing Pressure Roller Shaft	CK-8012	
HANARL UD-321		FY9-6037	<ul style="list-style-type: none"> • Quick-drying grease (Since it is quick-drying and transparent, caution is required to identify the area where it is applied.)

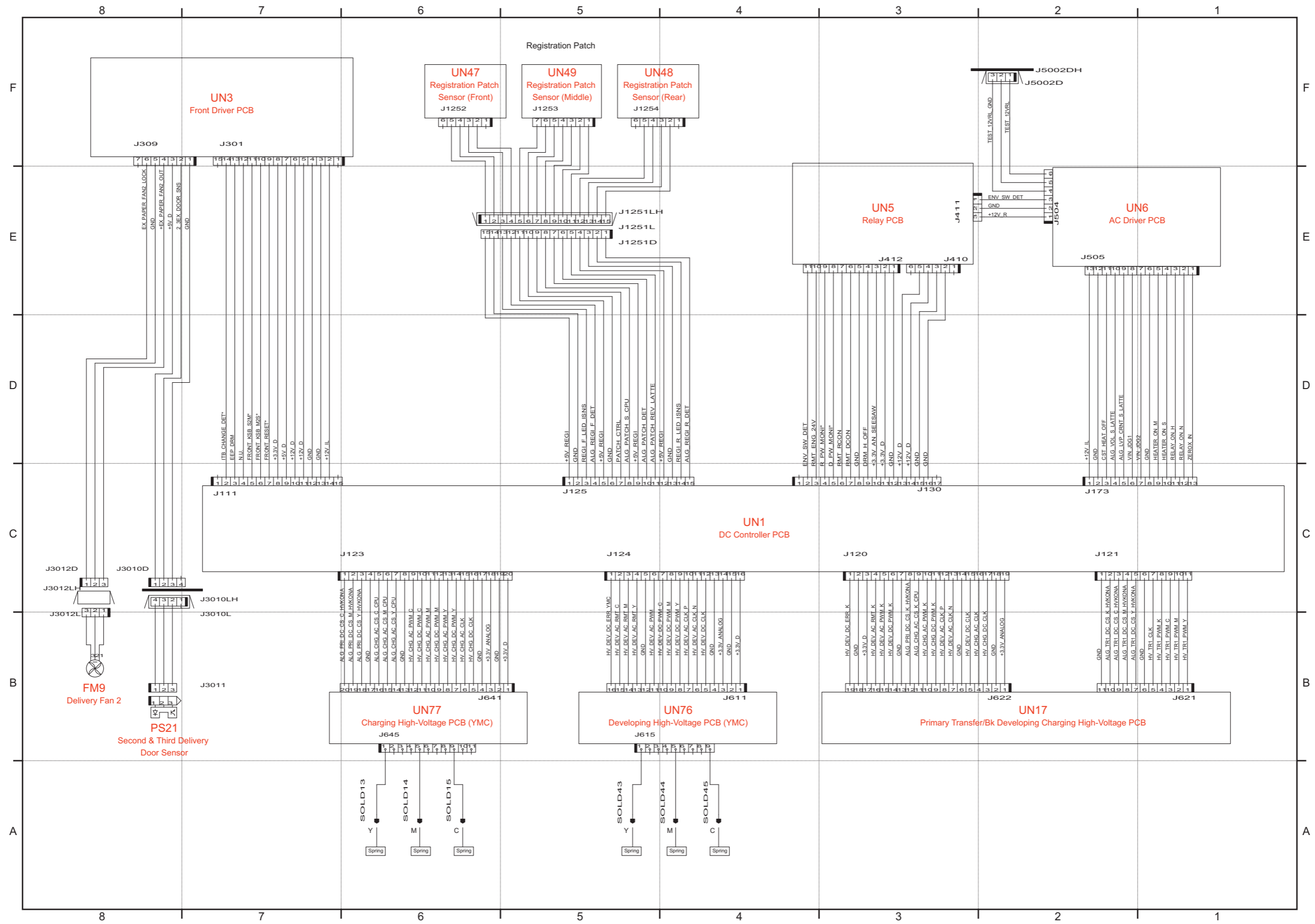
General Circuit Diagram

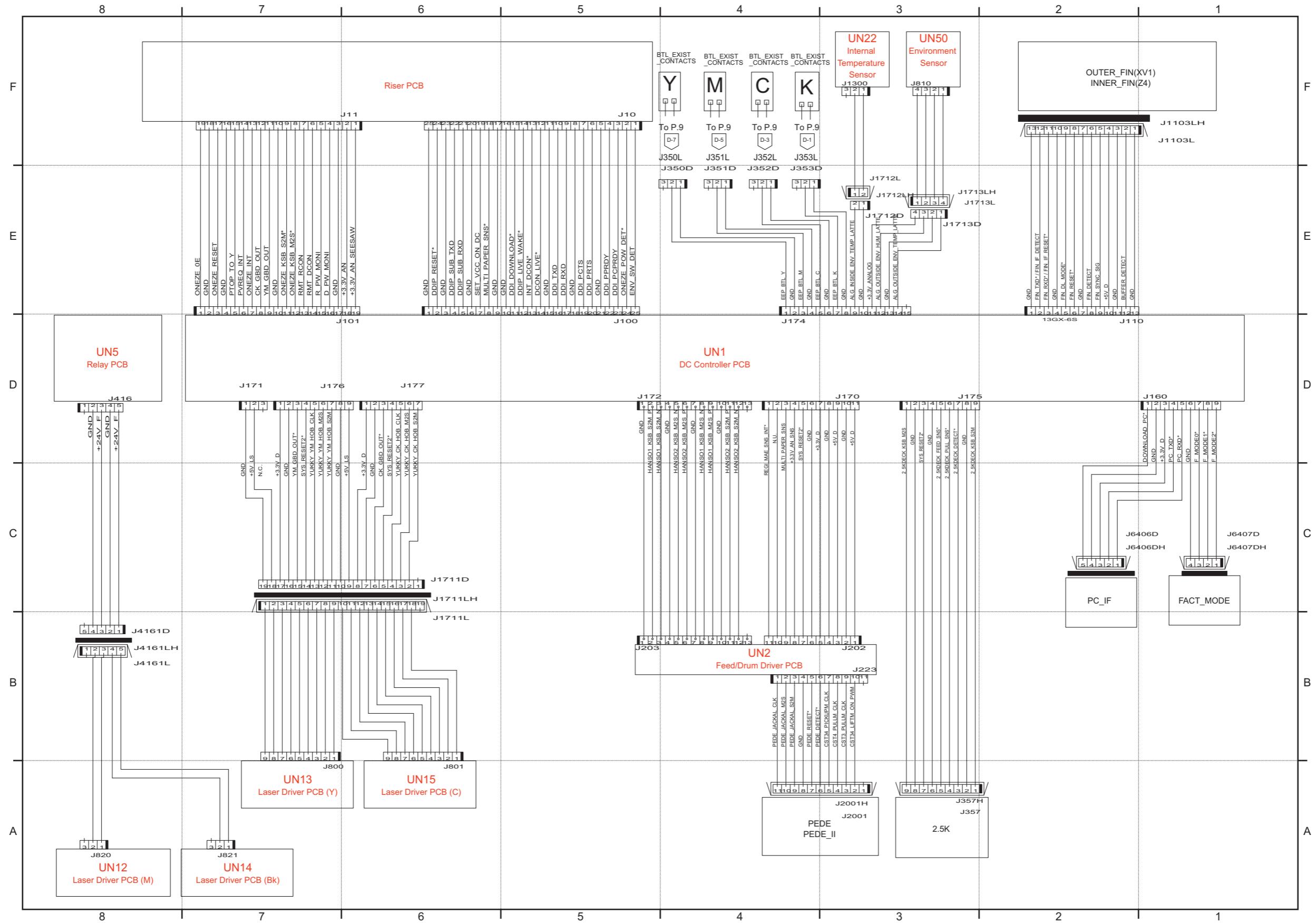
Main Unit General Circuit Diagram

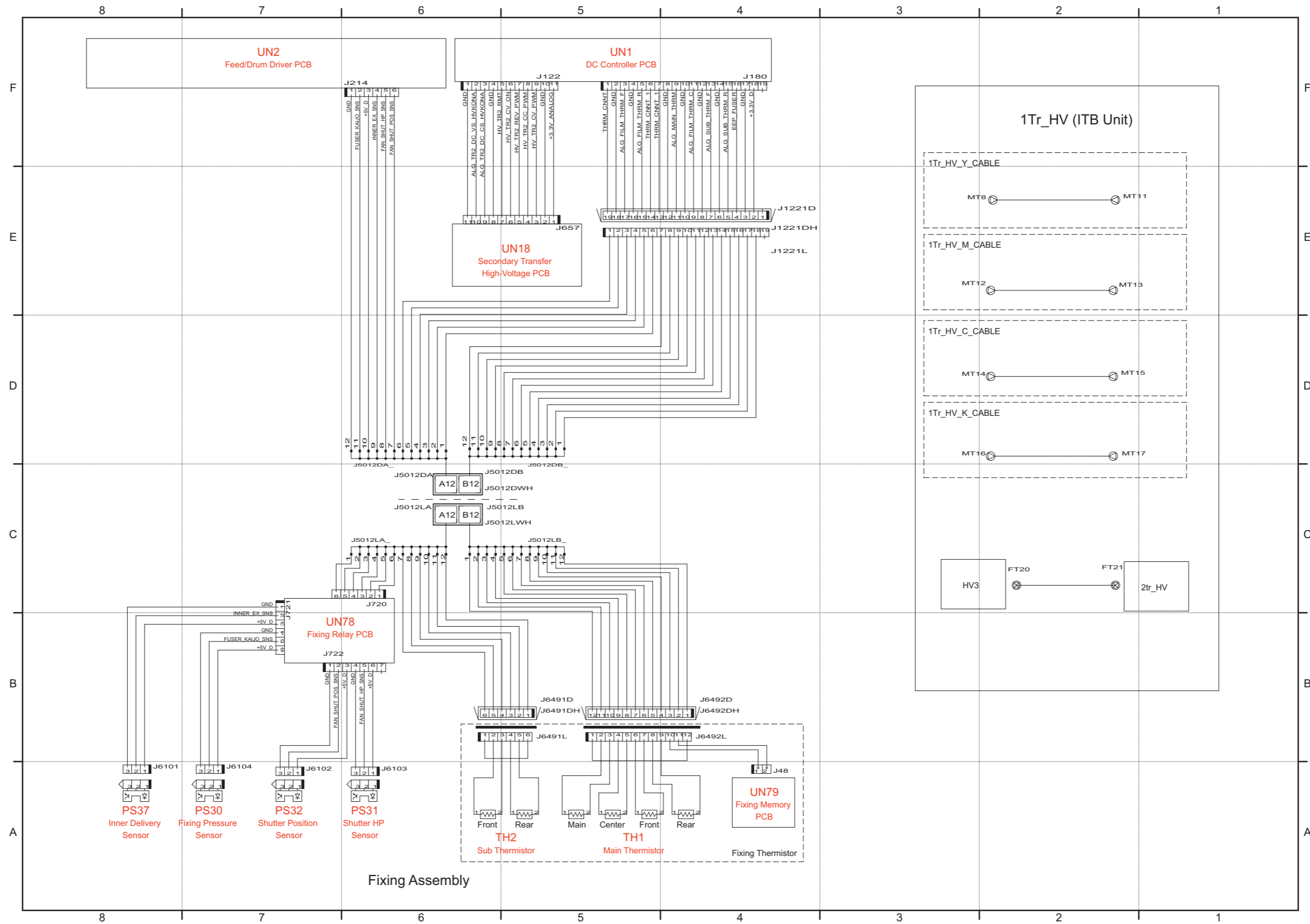
1/15

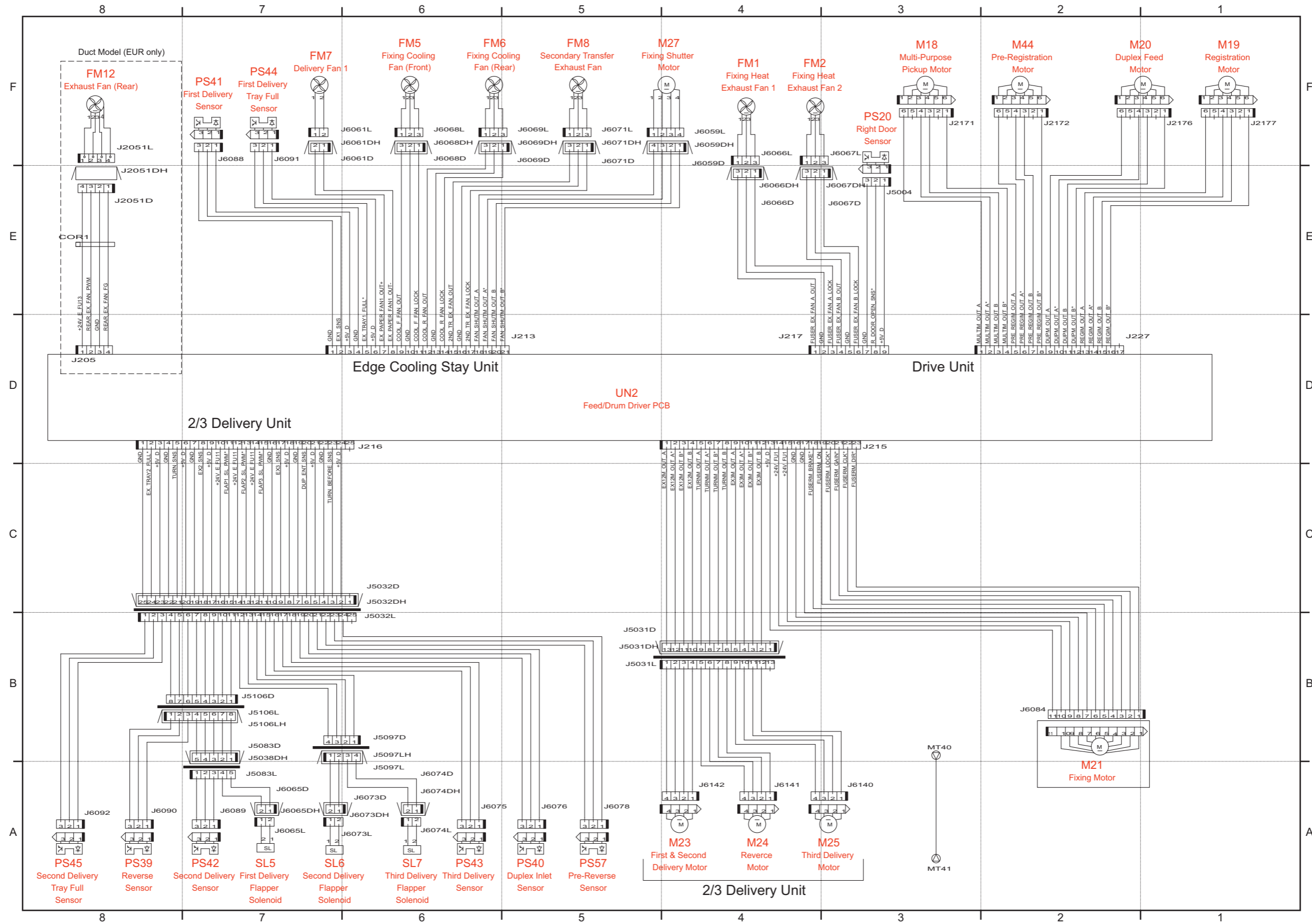


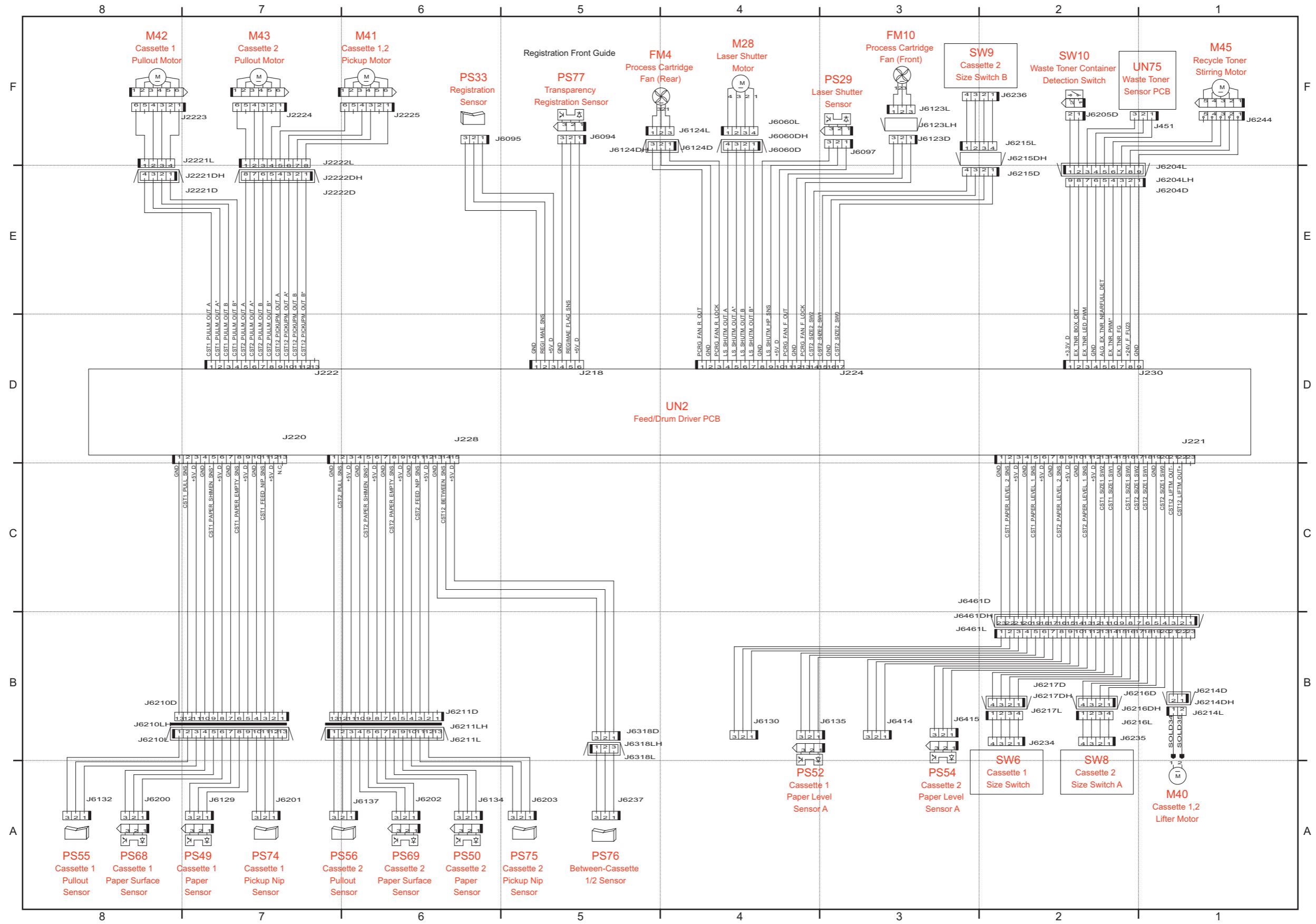


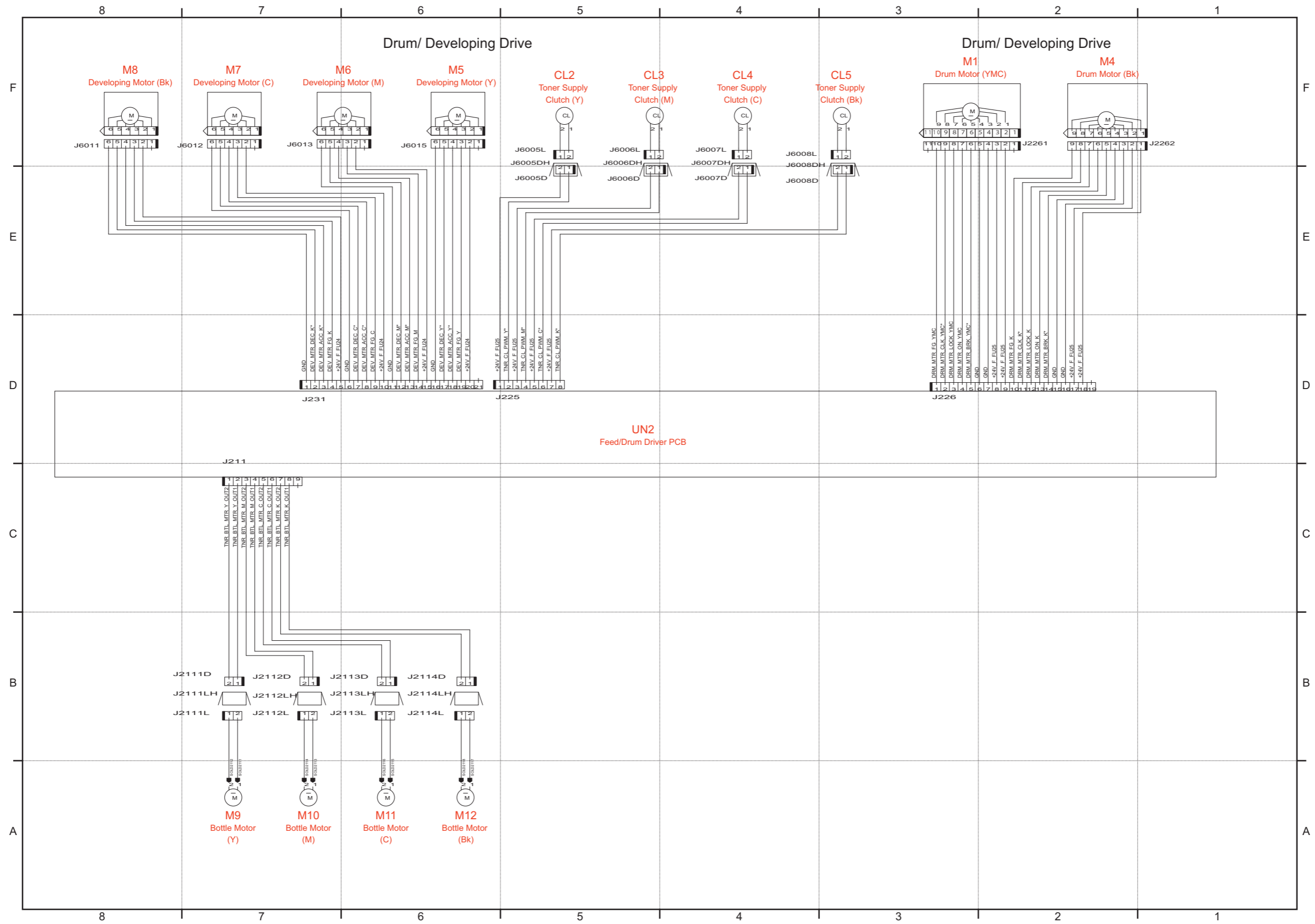


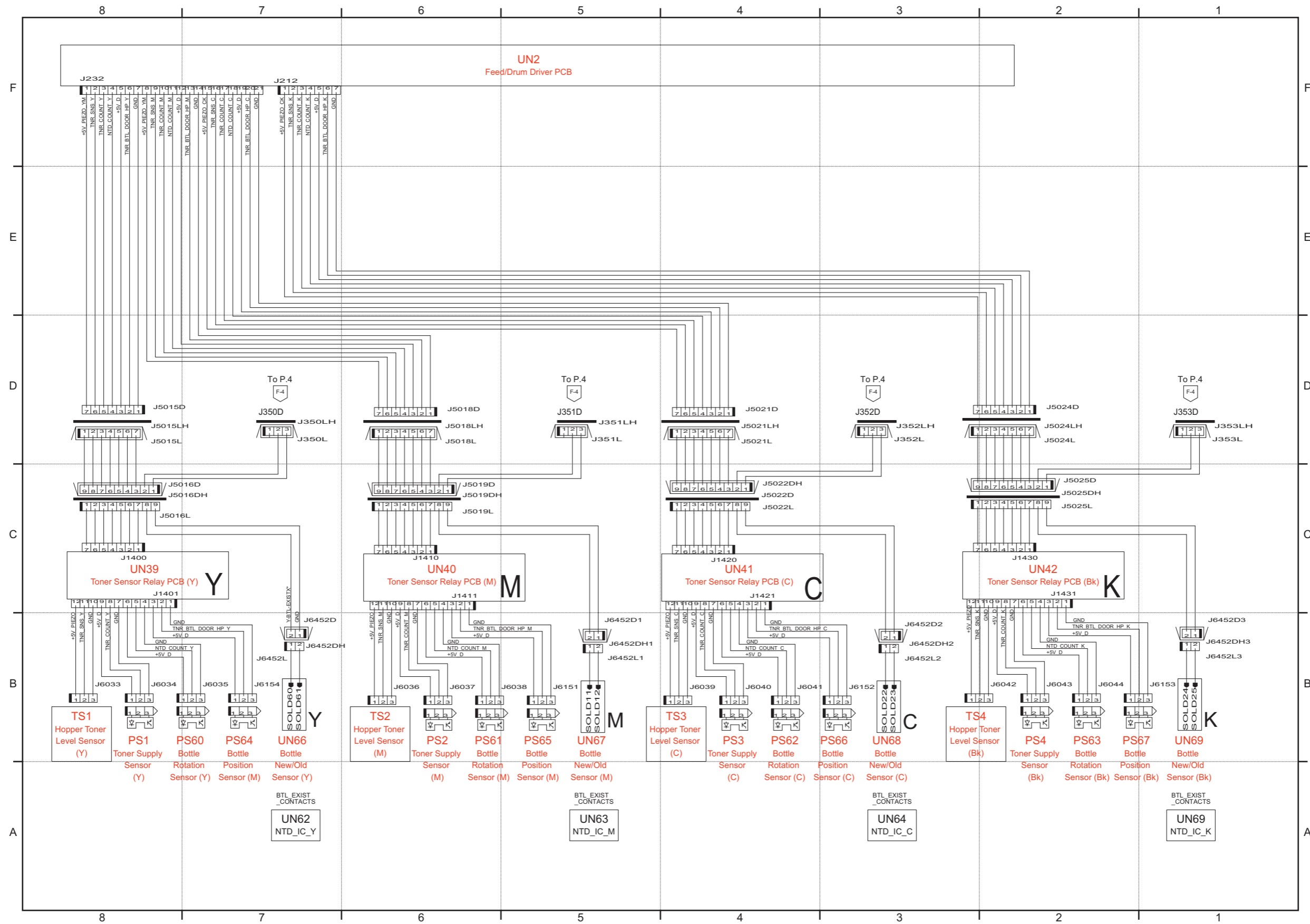


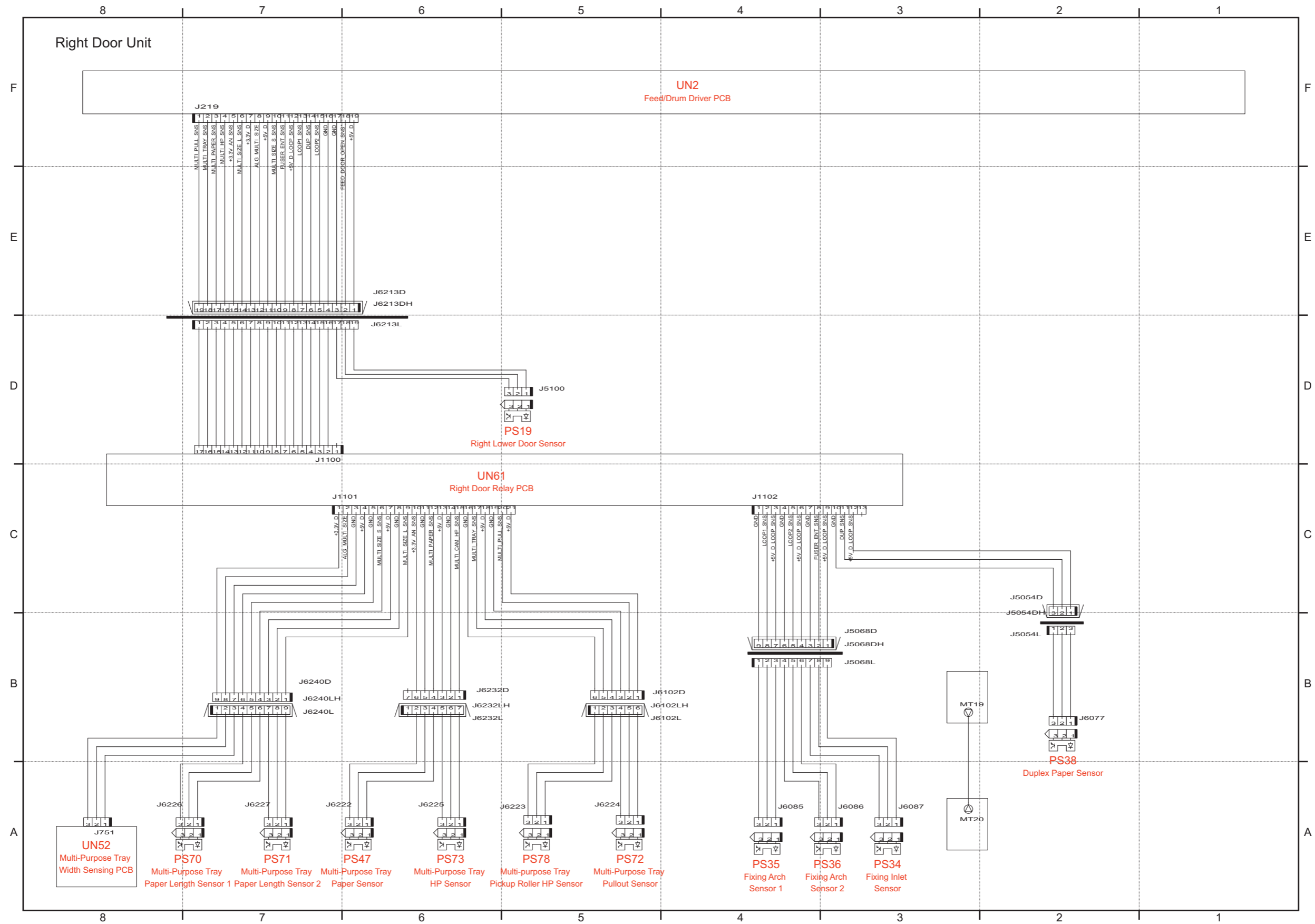


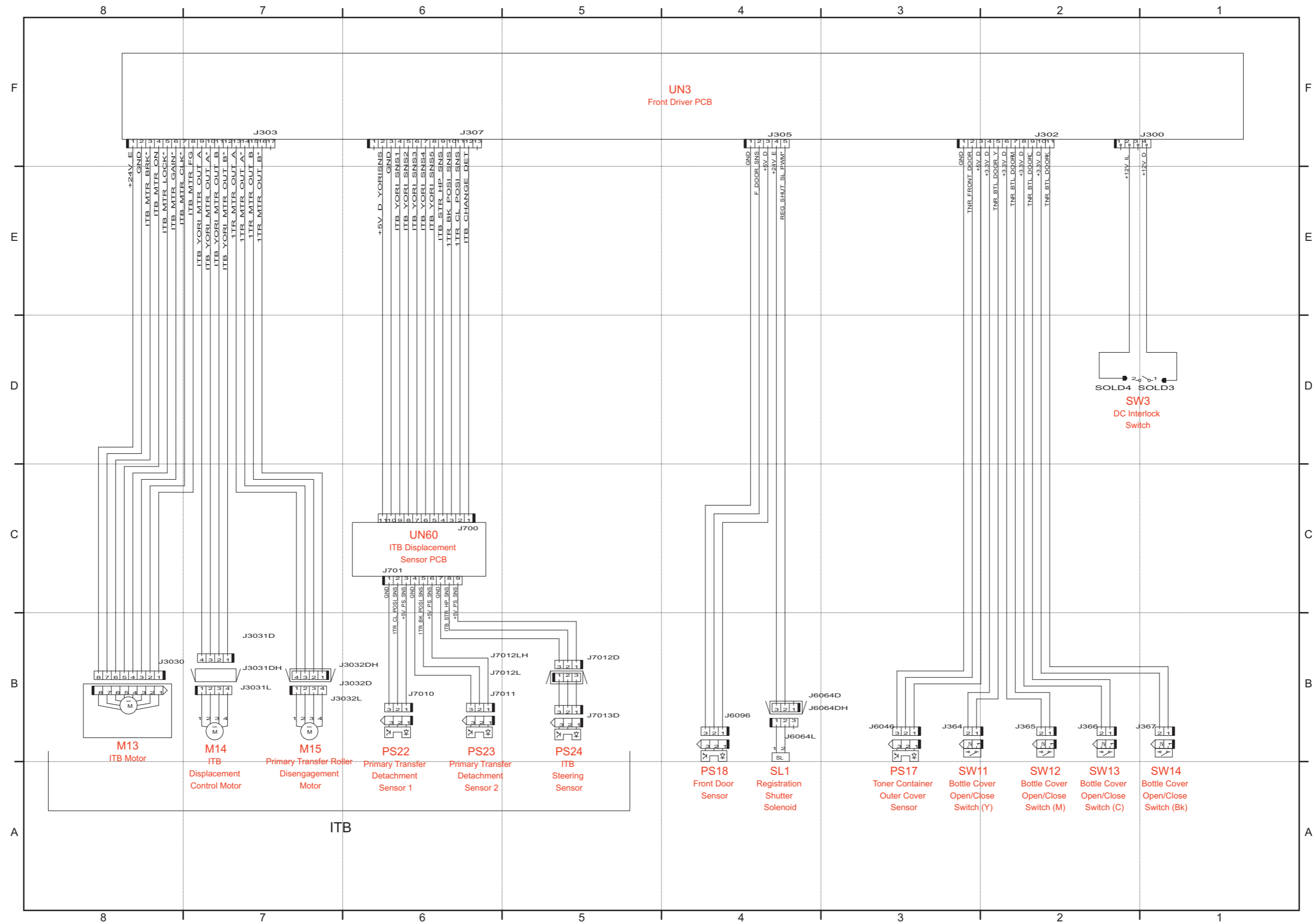


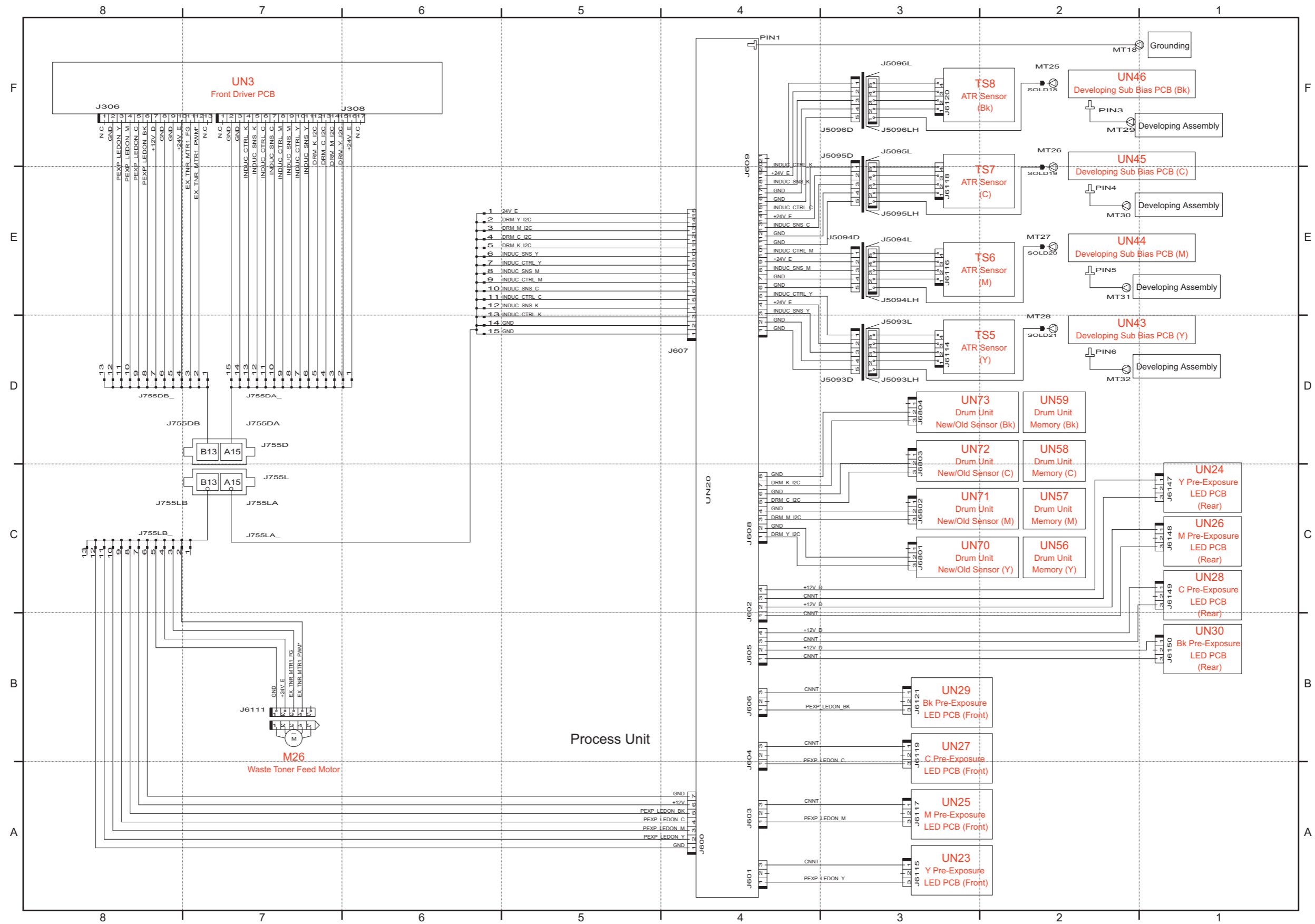


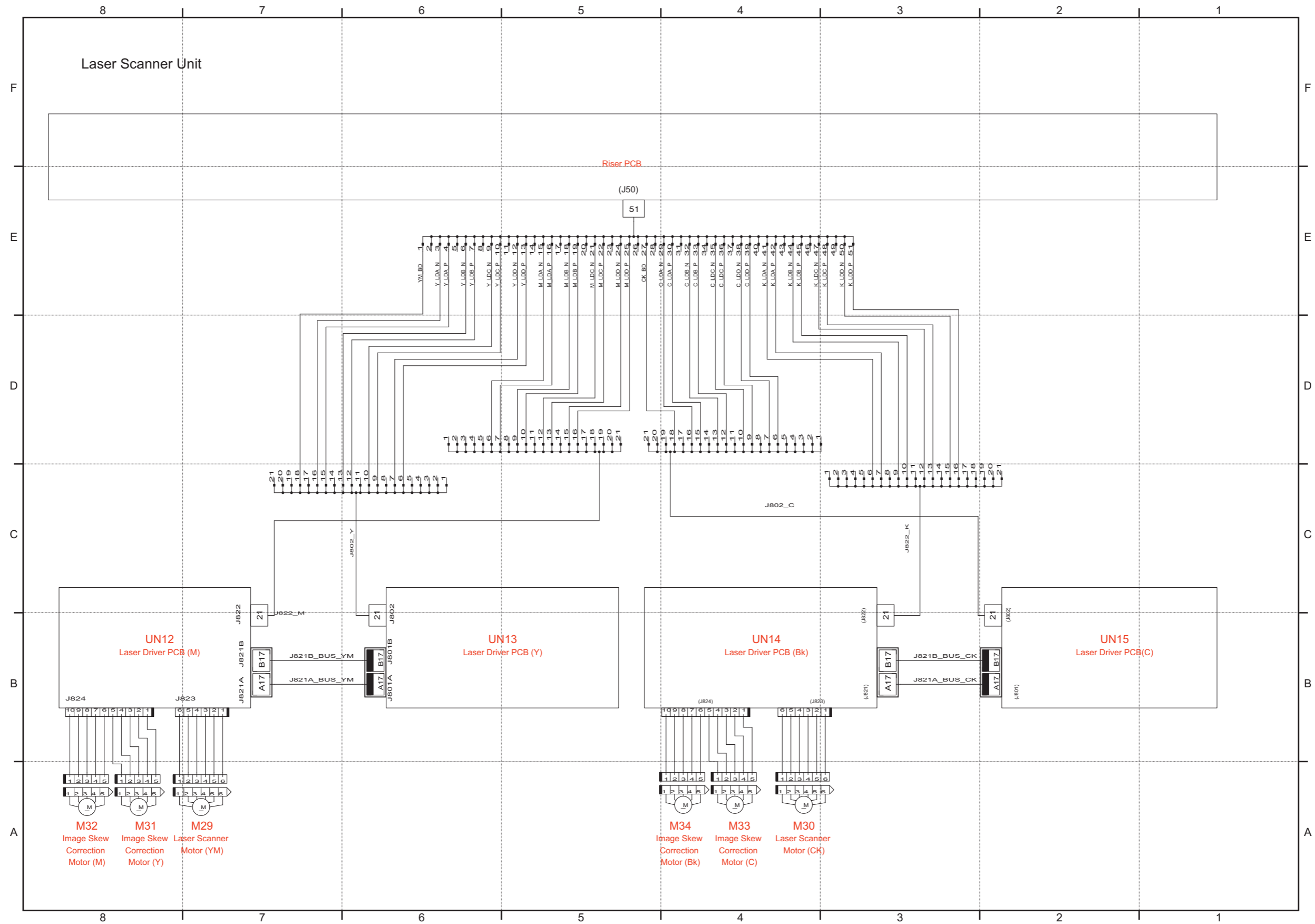


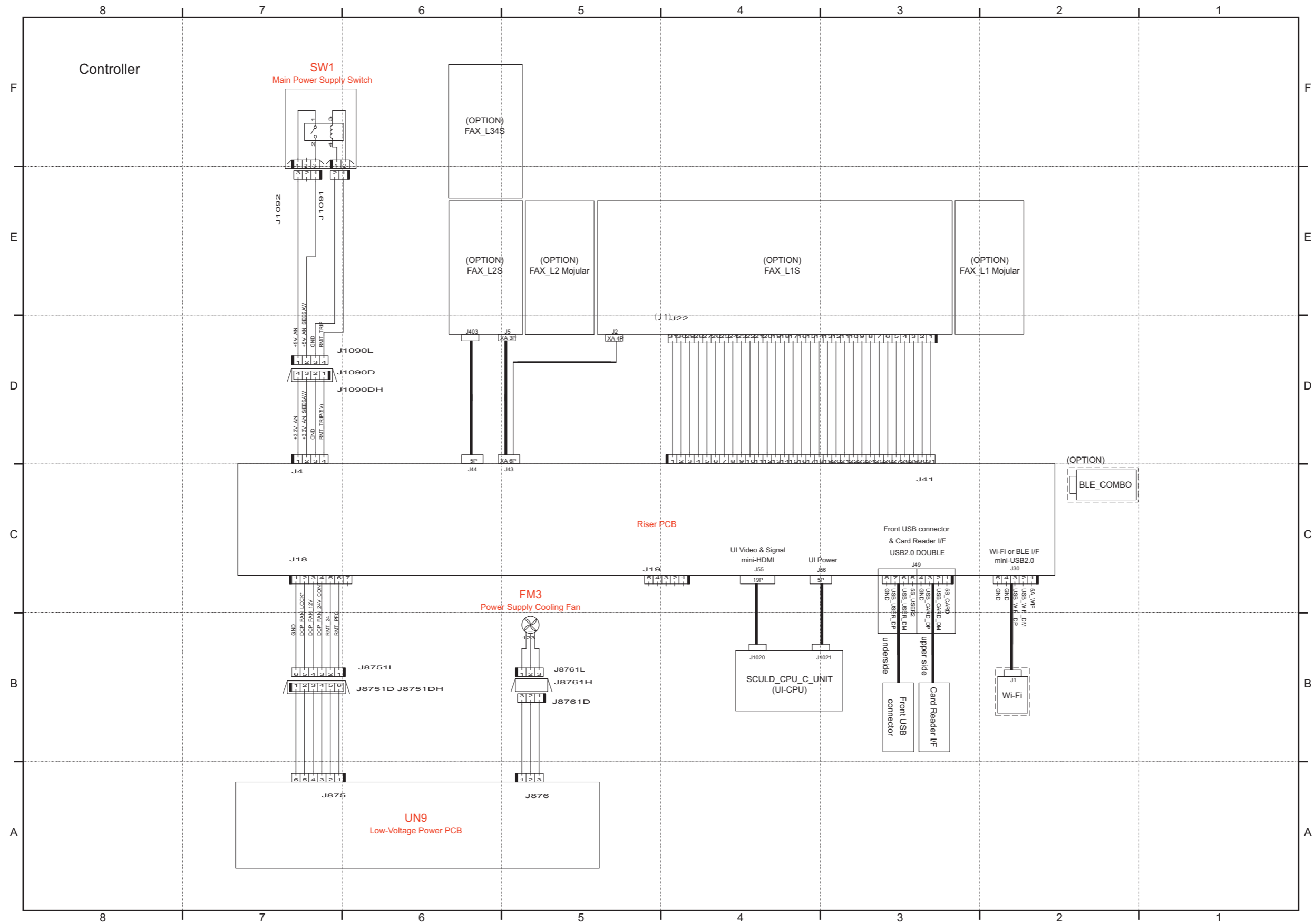


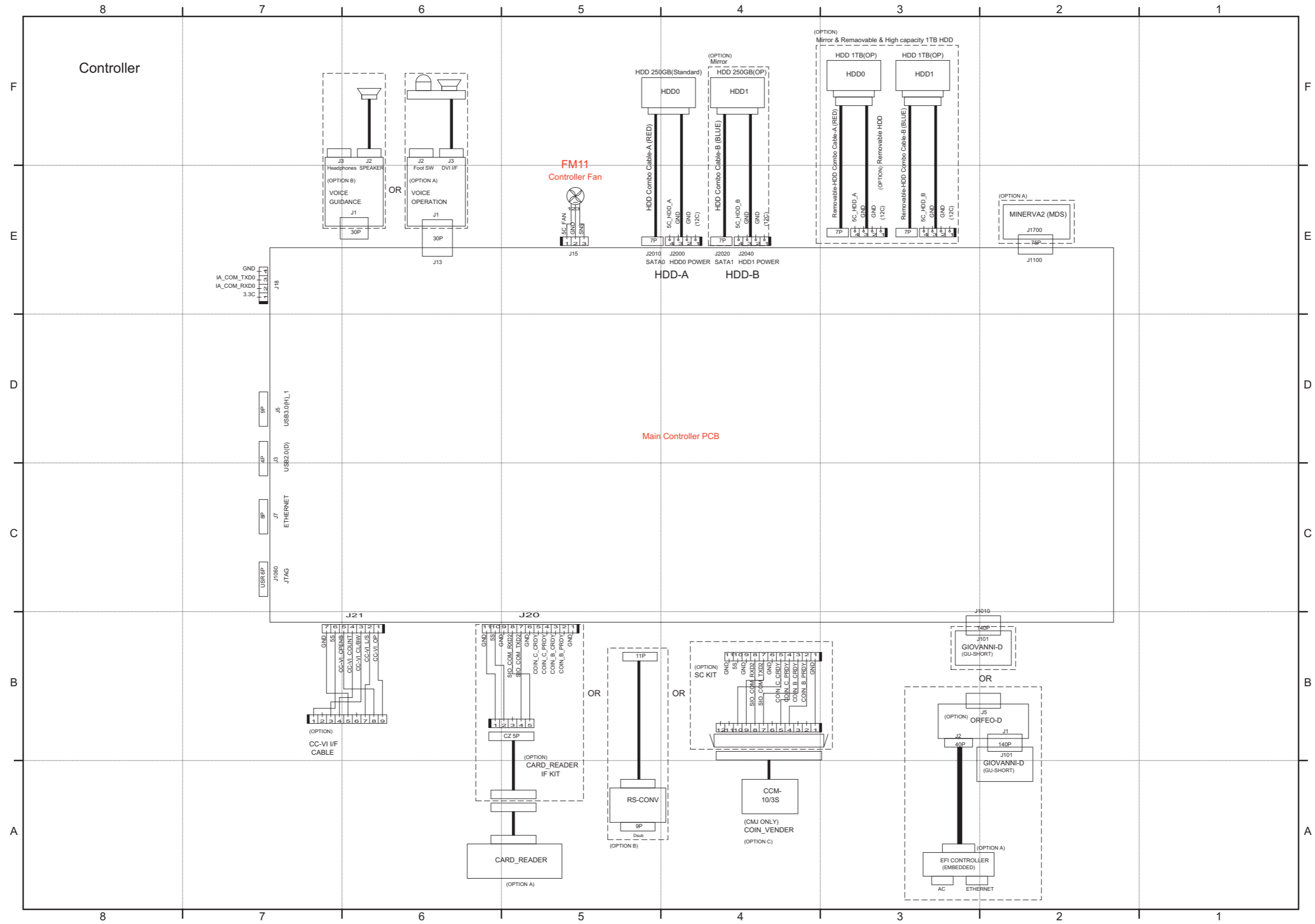






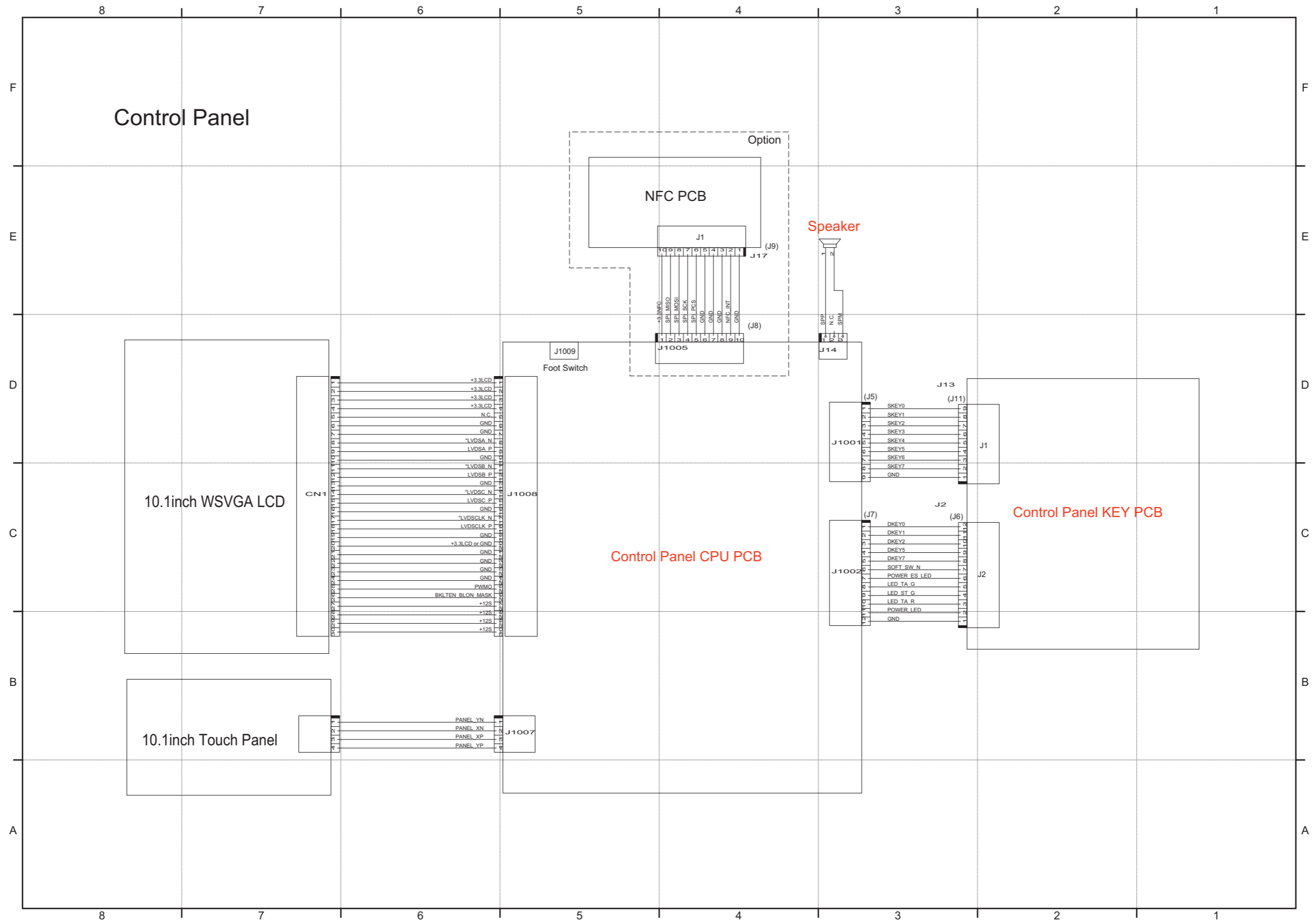




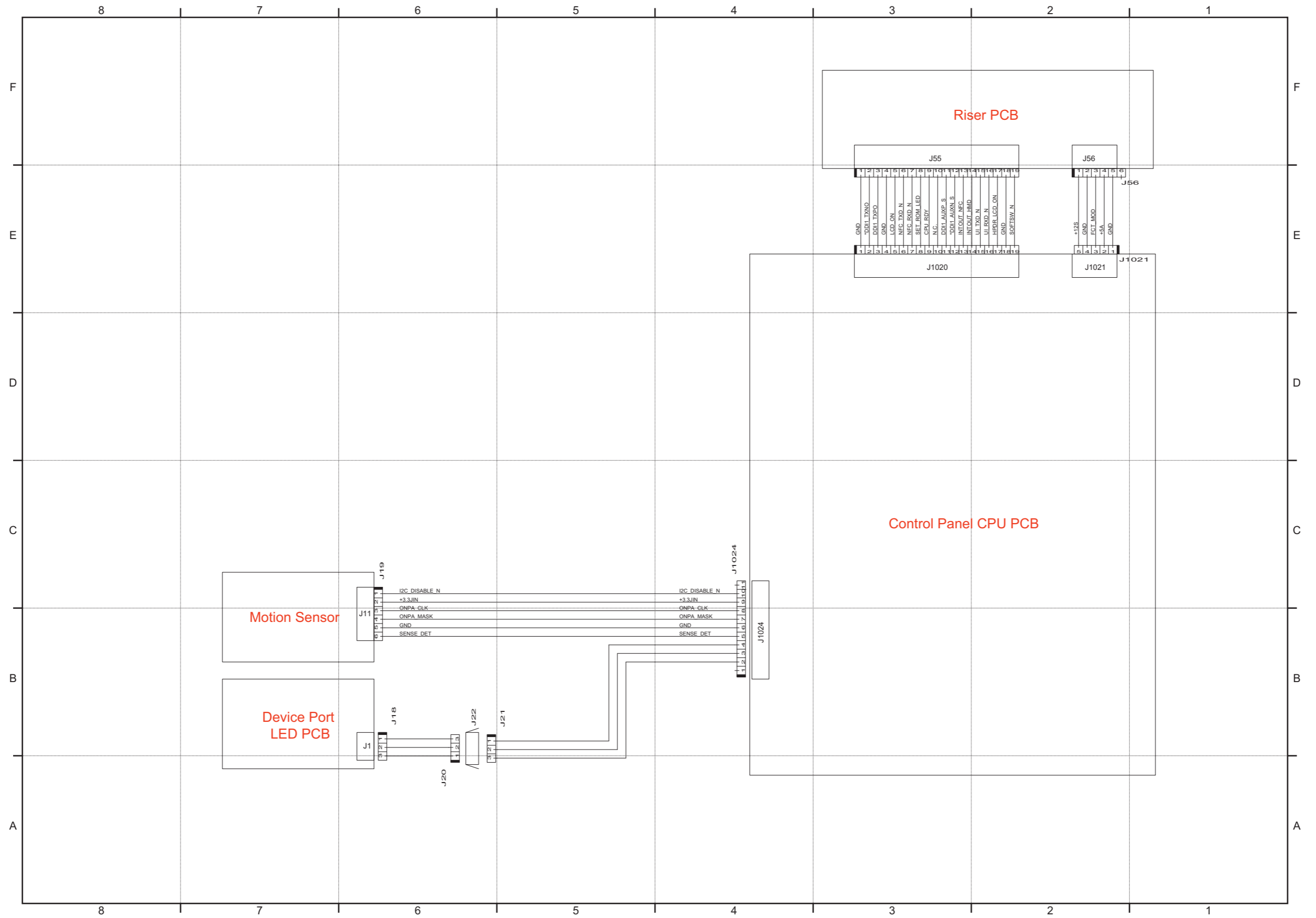


Control Panel Unit General Circuit Diagram

Control Panel Unit 1/2



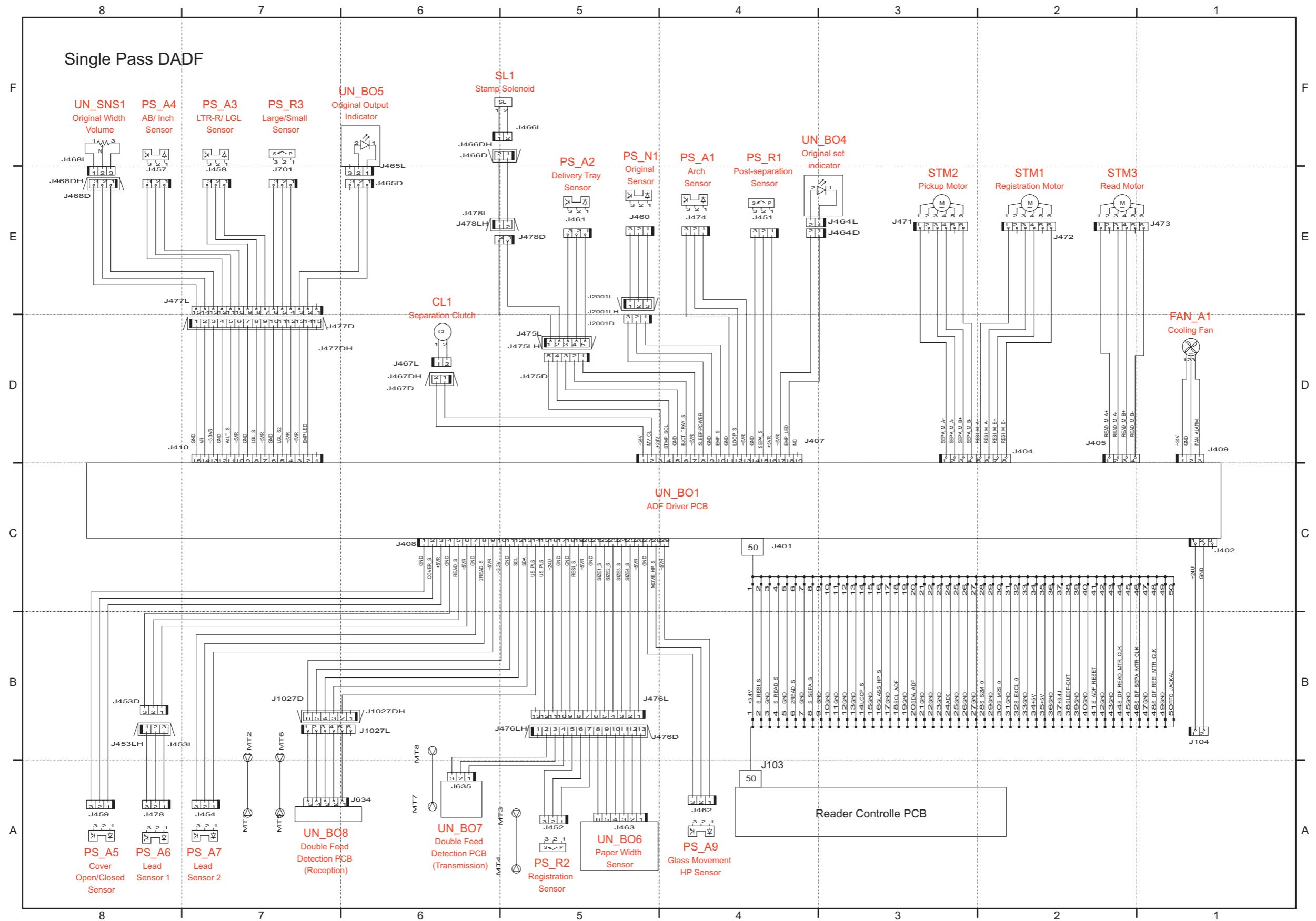
Control Panel Unit 2/2



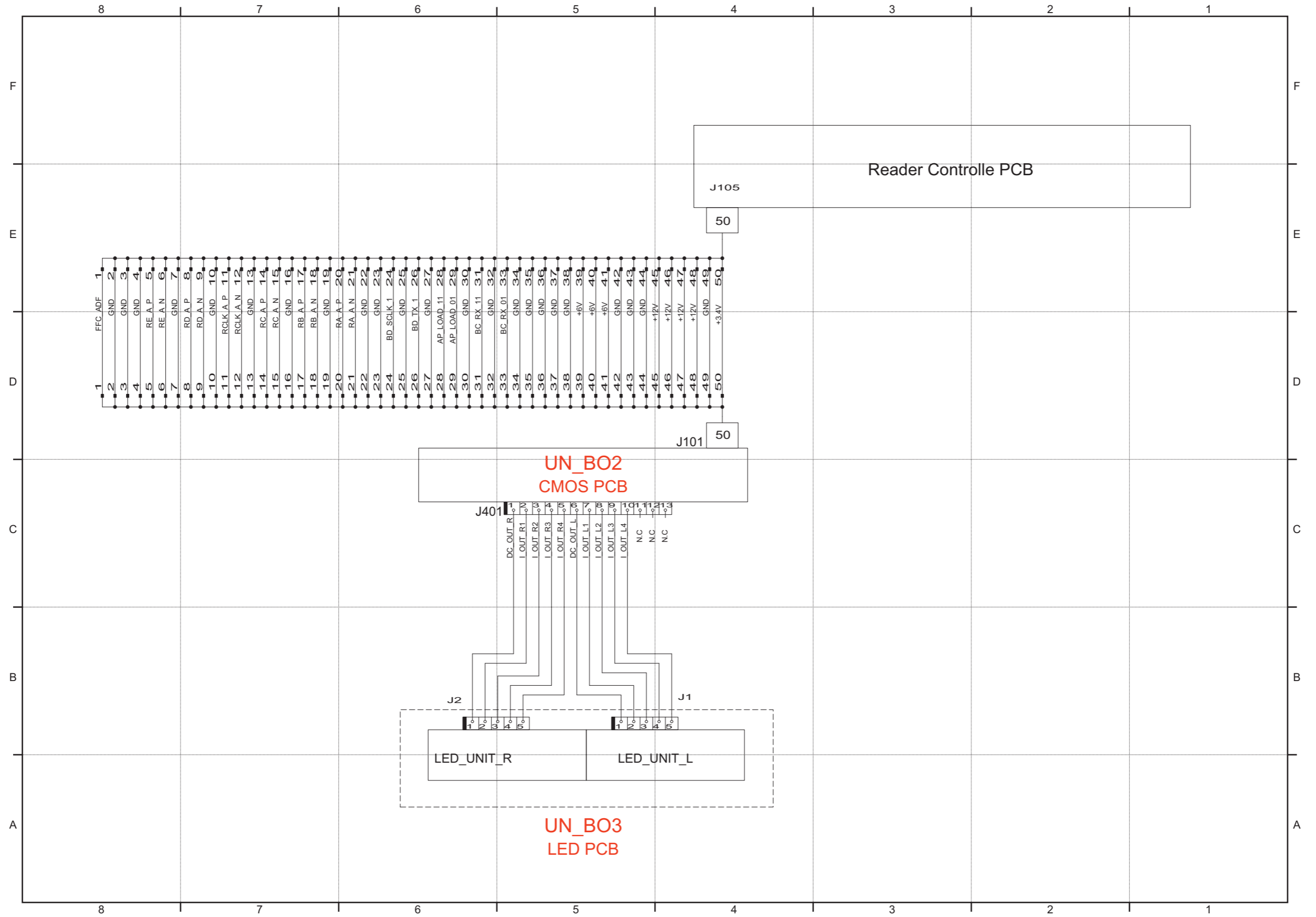
P.2

ADF/Reader General Circuit Diagram

Single Pass DADF 1/2

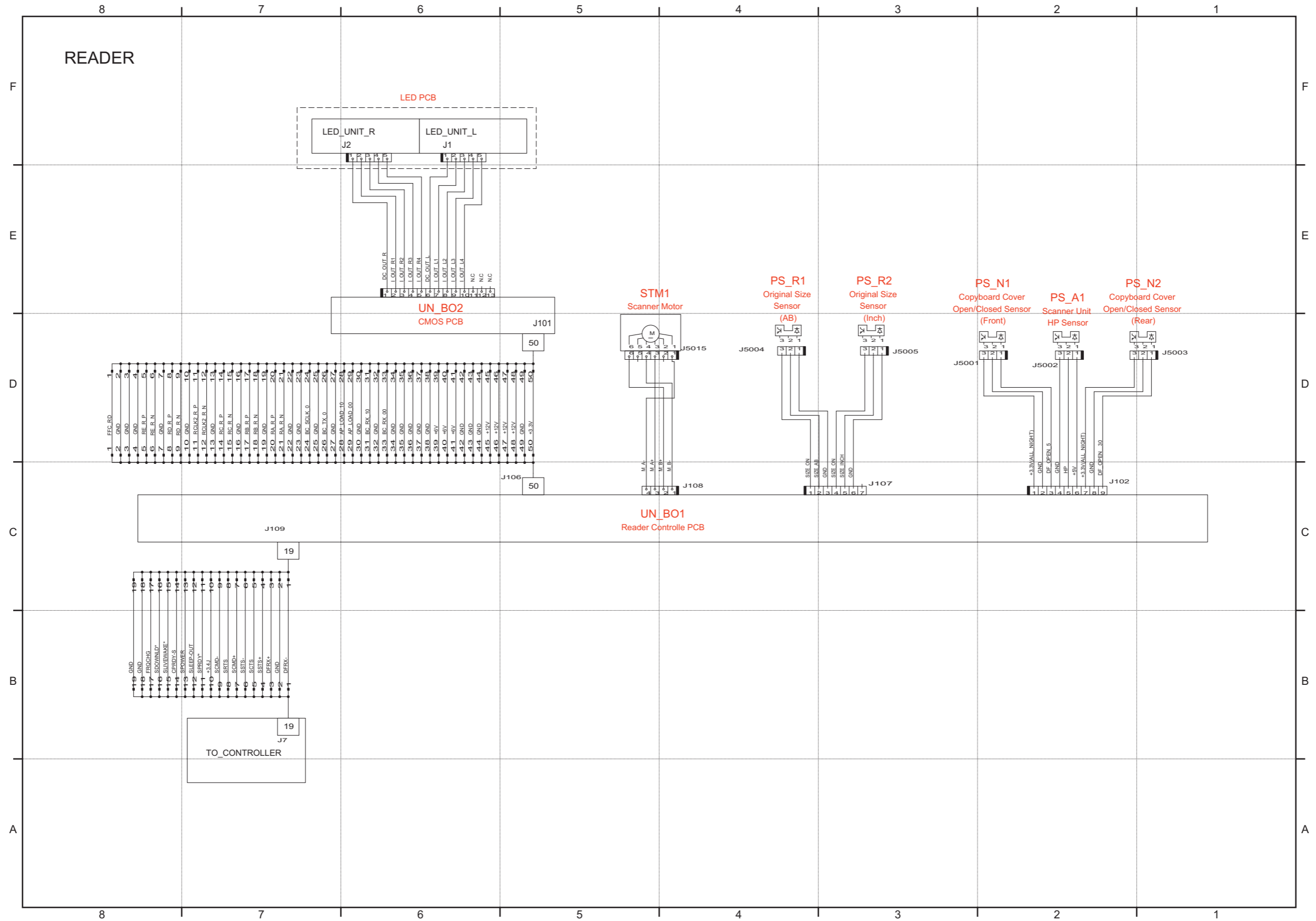


Single Pass DADF 2/2



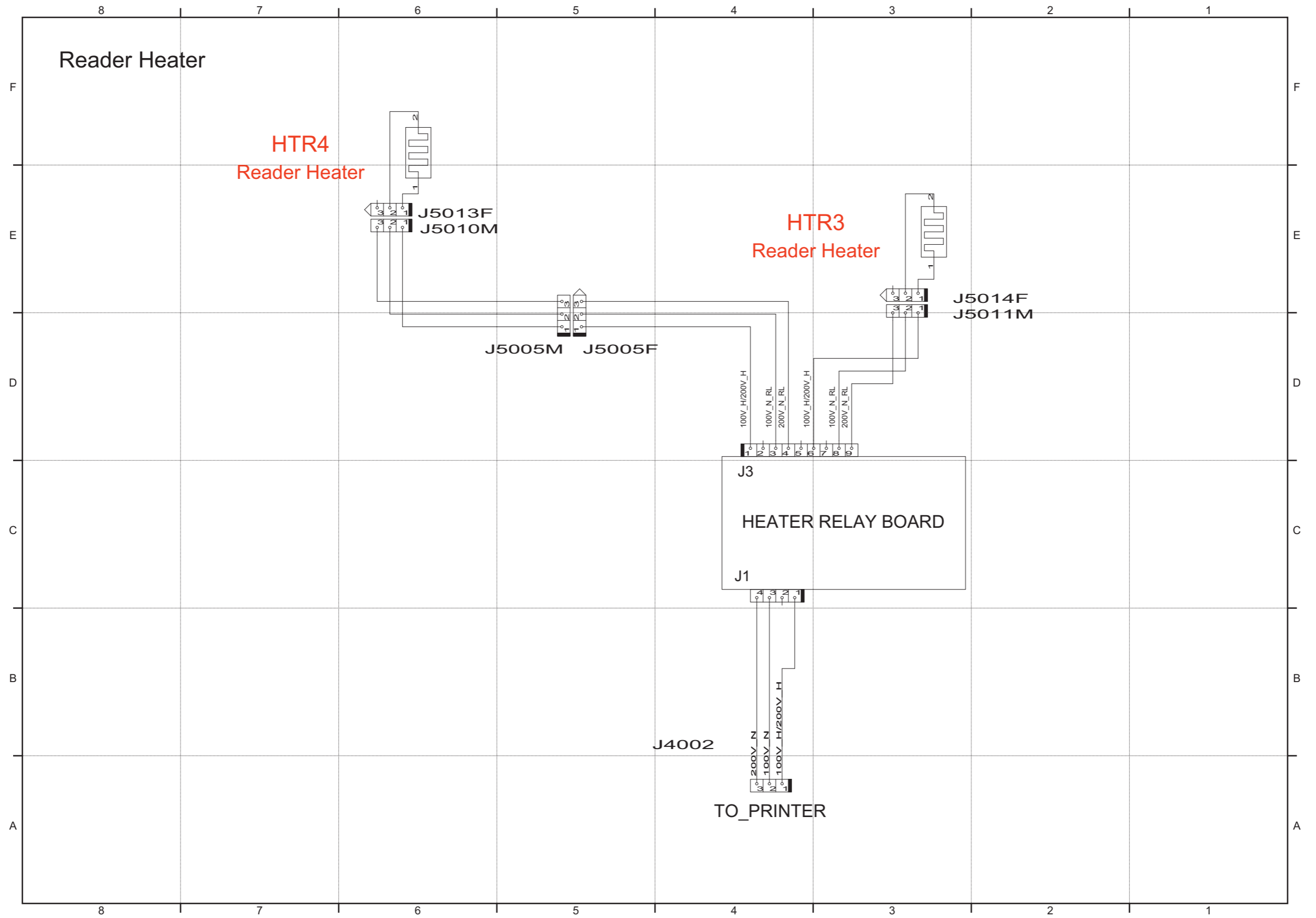
P.2

Reader Unit



P.1

Reader Heater Unit



P.2

Software Counter Specifications

Software counter is classified according to the input number as follows:

No.	Counter item	No.	Counter item
000 to 099	Toner Bottle	500 to 599	Scan
100 to 199	Total	600 to 699	Mail Box print, memory media print
200 to 299	Copy	700 to 799	Reception print, Advanced Box print, network print, mobile print
300 to 399	Print	800 to 899	Report print
400 to 499	Copy + Print	900 to 999	Transmission

- Description of codes in the table -

- Large: Paper larger than B4 size
- Small size: Paper equal to or smaller than B4
- The number 1 and 2 in "Counter item": The count for large size paper
- The size as which "B4" should be counted (service mode: B4-L-CNT)
0: Small (default)
1: Large
- Total A: Total excluding local copy
- Total B: Total excluding local copy + Mail Box print
- Copy: Local copy
- Copy A: Local copy + Mail Box print
- Print: PDL print + Report print + Mail Box print
- Print A: PDL print + Report print
- Scan: Black scan + Color scan

Related Service Mode

COPIER > OPTION > USER > B4-L-CNT

000 to 099

Number on the screen	Counter item	Number on the screen	Counter item
064	The number of premature replacements of the Toner Container (Black)	071	The number of installations of a new Toner Container (Black)
065	The number of premature replacements of the Toner Container (Yellow)	072	The number of installations of a new Toner Container (Yellow)
066	The number of premature replacements of the Toner Container (Magenta)	073	The number of installations of a new Toner Container (Magenta)
067	The number of premature replacements of the Toner Container (Cyan)	074	The number of installations of a new Toner Container (Cyan)

100 to 199

Number on the screen	Counter item	Number on the screen	Counter item
101	Total 1	140	Large A (2-sided)
102	Total 2	141	Small A (2-sided)
103	Total (Large)	142	Total A (Single Color 1)
104	Total (Small)	143	Total A (Single Color 2)
105	Total (Full Color 1)	144	Total A (Full Color/Large)
106	Total (Full Color 2)	145	Total A (Full Color/Small)
108	Total (Black 1)	146	Total A (Full Color + Single Color/Large)
109	Total (Black 2)	147	Total A (Full Color + Single Color/Small)
110	Total (Single Color/Large)	148	Total A (Full Color + Single Color 2)
111	Total (Single Color/Small)	149	Total A (Full Color + Single Color 1)
112	Total (Black/Large)	150	Total B1
113	Total (Black/Small)	151	Total B2
114	Total 1 (2-sided)	152	Total B (Large)

Number on the screen	Counter item	Number on the screen	Counter item
115	Total 2 (2-sided)	153	Total B (Small)
116	Large (2-sided)	154	Total B (Full Color 1)
117	Small (2-sided)	155	Total B (Full Color 2)
118	Total (Single Color 1)	156	Total B (Black 1)
119	Total (Single Color 2)	157	Total B (Black 2)
120	Total (Full Color/Large)	158	Total B (Single Color/Large)
121	Total (Full Color/Small)	159	Total B (Single Color/Small)
122	Total (Full Color + Single Color/Large)	160	Total B (Black/Large)
123	Total (Full Color + Single Color/Small)	161	Total B (Black/Small)
124	Total (Full Color + Single Color 2)	162	Total B1 (2-sided)
125	Total (Full Color + Single Color 1)	163	Total B2 (2-sided)
126	Total A1	164	Large B (2-sided)
127	Total A2	165	Small B (2-sided)
128	Total A (Large)	166	Total B (Single Color 1)
129	Total A (Small)	167	Total B (Single Color 2)
130	Total A (Full Color 1)	168	Total B (Full Color/Large)
131	Total A (Full Color 2)	169	Total B (Full Color/Small)
132	Total A (Black 1)	170	Total B (Full Color + Single Color/Large)
133	Total A (Black 2)	171	Total B (Full Color + Single Color/Small)
134	Total A (Single Color/Large)	172	Total B (Full Color + Single Color 2)
135	Total A (Single Color/Small)	173	Total B (Full Color + Single Color 1)
136	Total A (Black/Large)	181	Unidentified Toner Bottle (Black)
137	Total A (Black/Small)	182	Unidentified Toner Bottle (Yellow)
138	Total A1 (2-sided)	183	Unidentified Toner Bottle (Magenta)
139	Total A2 (2-sided)	184	Unidentified Toner Bottle (Cyan)

200 to 299

Number on the screen	Counter item	Number on the screen	Counter item
201	Copy (Total 1)	250	Copy A (Black 2)
202	Copy (Total 2)	251	Copy A (Full Color/Large)
203	Copy (Large)	252	Copy A (Full Color/Small)
204	Copy (Small)	253	Copy A (Single Color/Large)
205	Copy A (Total 1)	254	Copy A (Single Color/Small)
206	Copy A (Total 2)	255	Copy A (Black/Large)
207	Copy A (Large)	256	Copy A (Black/Small)
208	Copy A (Small)	257	Copy A (Full Color + Single Color/Large)
209	Local copy (Total 1)	258	Copy A (Full Color + Single Color/Small)
210	Local copy (Total 2)	259	Copy A (Full Color + Single Color 2)
211	Local copy (Large)	260	Copy A (Full Color + Single Color 1)
212	Local copy (Small)	261	Copy A (Full Color/Large/2-sided)
217	Copy (Full Color 1)	262	Copy A (Full Color/Small/2-sided)
218	Copy (Full Color 2)	263	Copy A (Single Color/Large/2-sided)
219	Copy (Single Color 1)	264	Copy A (Single Color/Small/2-sided)
220	Copy (Single Color 2)	265	Copy A (Black/Large/2-sided)
221	Copy (Black 1)	266	Copy A (Black/Small/2-sided)
222	Copy (Black 2)	273	Local copy (Full Color 1)
223	Copy (Full Color/Large)	274	Local copy (Full Color 2)
224	Copy (Full Color/Small)	275	Local copy (Single Color 1)
225	Copy (Single Color/Large)	276	Local copy (Single Color 2)
226	Copy (Single Color/Small)	277	Local copy (Black 1)
227	Copy (Black/Large)	278	Local copy (Black 2)
228	Copy (Black/Small)	279	Local copy (Full Color/Large)

Number on the screen	Counter item	Number on the screen	Counter item
229	Copy (Full Color + Single Color/Large)	280	Local copy (Full Color/Small)
230	Copy (Full Color + Single Color/Small)	281	Local copy (Single Color/Large)
231	Copy (Full Color + Single Color/2)	282	Local copy (Single Color/Small)
232	Copy (Full Color + Single Color/1)	283	Local copy (Black/Large)
233	Copy (Full Color/Large/2-sided)	284	Local copy (Black/Small)
234	Copy (Full Color/Small/2-sided)	285	Local copy (Full Color + Single Color/Large)
235	Copy (Single Color/Large/2-sided)	286	Local copy (Full Color + Single Color/Small)
236	Copy (Single Color/Small/2-sided)	287	Local copy (Full Color + Single Color 2)
237	Copy (Black/Large/2-sided)	288	Local copy (Full Color + Single Color 1)
238	Copy (Black/Small/2-sided)	289	Local copy (Full Color/Large/2-sided)
245	Copy A (Full Color 1)	290	Local copy (Full Color/Small/2-sided)
246	Copy A (Full Color 2)	291	Local copy (Single Color/Large/2-sided)
247	Copy A (Single Color 1)	292	Local copy (Single Color/Small/2-sided)
248	Copy A (Single Color 2)	293	Local copy (Black/Large/2-sided)
249	Copy A (Black 1)	294	Local copy (Black/Small/2-sided)

300 to 399

Number on the screen	Counter item	Number on the screen	Counter item
301	Print (Total 1)	332	PDL print (Total 2)
302	Print (Total 2)	333	PDL print (Large)
303	Print (Large)	334	PDL print (Small)
304	Print (Small)	335	PDL print (Full Color 1)
305	Print A (Total 1)	336	PDL print (Full Color 2)
306	Print A (Total 2)	337	PDL print (Single Color 1)
307	Print A (Large)	338	PDL print (Single Color 2)
308	Print A (Small)	339	PDL print (Black 1)
309	Print (Full Color 1)	340	PDL print (Black 2)
310	Print (Full Color 2)	341	PDL print (Full Color/Large)
311	Print (Single Color 1)	342	PDL print (Full Color/Small)
312	Print (Single Color 2)	343	PDL print (Single Color/Large)
313	Print (Black 1)	344	PDL print (Single Color/Small)
314	Print (Black 2)	345	PDL print (Black/Large)
315	Print (Full Color/Large)	346	PDL print (Black/Small)
316	Print (Full Color/Small)	351	PDL print (Full Color/Large/2-sided)
317	Print (Single Color/Large)	352	PDL print (Full Color/Small/2-sided)
318	Print (Single Color/Small)	353	PDL print (Single Color/Large/2-sided)
319	Print (Black/Large)	354	PDL print (Single Color/Small/2-sided)
320	Print (Black/Small)	355	PDL print (Black/Large/2-sided)
321	Print (Full Color + Single Color/Large)	356	PDL print (Black/Small/2-sided)
322	Print (Full Color + Single Color/Small)		
323	Print (Full Color + Single Color/2)		
324	Print (Full Color + Single Color/1)		
325	Print (Full Color/Large/2-sided)		
326	Print (Full Color/Small/2-sided)		
327	Print (Single Color/Large/2-sided)		
328	Print (Single Color/Small/2-sided)		
329	Print (Black/Large/2-sided)		
330	Print (Black/Small/2-sided)		
331	PDL print (Total 1)		

400 to 499

Number on the screen	Counter item	Number on the screen	Counter item
401	Copy + Print (Full Color/Large)	415	Copy + Print (Single Color/Large)
402	Copy + Print (Full Color/Small)	416	Copy + Print (Single Color/Small)
403	Copy + Print (Black/Large)	417	Copy + Print (Full Color/Large/2-sided)
404	Copy + Print (Black/Small)	418	Copy + Print (Full Color/Small/2-sided)
405	Copy + Print (Black 2)	419	Copy + Print (Single Color/Large/2-sided)
406	Copy + Print (Black 1)	420	Copy + Print (Single Color/Small/2-sided)
407	Copy + Print (Full Color + Single Color/Large)	421	Copy + Print (Black/Large/2-sided)
408	Copy + Print (Full Color + Single Color/Small)	422	Copy + Print (Black/Small/2-sided)
409	Copy + Print (Full Color + Single Color/2)	471	Long original counter (Total)
410	Copy + Print (Full Color + Single Color/1)	472	Long original counter (Full Color)
411	Copy + Print (Large)	473	Long original counter (Black)
412	Copy + Print (Small)	474	Long original counter (Single Color)
413	Copy + Print (2)	475	Long original counter (Full Color + Single Color)
414	Copy + Print (1)		

500 to 599

Number on the screen	Counter item	Number on the screen	Counter item
501	Scan (Total 1)	507	Black scan (Large)
502	Scan (Total 2)	508	Black scan (small)
503	Black scan (Large)	509	Color scan (Total 1)
504	Scan (Small)	510	Color scan (Total 2)
505	Black scan (Total 1)	511	Color scan (Large)
506	Black scan (Total 2)	512	Color scan (Small)

600 to 699

Number on the screen	Counter item	Number on the screen	Counter item
601	Mail Box print (Total 1)	622	Mail Box print (Full Color/Small/2-sided)
602	Mail Box print (Total 2)	623	Mail Box print (Single Color/Large/2-sided)
603	Mail Box print (Large)	624	Mail Box print (Single Color/Small/2-sided)
604	Mail Box print (Small)	625	Mail Box print (Black/Large/2-sided)
605	Mail Box print (Full Color 1)	626	Mail Box print (Black/Small/2-sided)
606	Mail Box print (Full Color 2)	631	Memory media print (Total 1)
607	Mail Box print (Single Color 1)	632	Memory media print (Total 2)
608	Mail Box print (Single Color 2)	633	Memory media print (Large)
609	Mail Box print (Black 1)	634	Memory media print (Small)
610	Mail Box print (Black 2)	635	Memory media print (Full Color 1)
611	Mail Box print (Full Color/Large)	636	Memory media print (Full Color 2)
612	Mail Box print (Full Color/Small)	639	Memory media print (Black 1)
613	Mail Box print (Single Color/Large)	640	Memory media print (Black 2)
614	Mail Box print (Single Color/Small)	641	Memory media print (Full Color/Large)
615	Mail Box print (Black/Large)	642	Memory media print (Full Color/Small)
616	Mail Box print (Black/Small)	645	Memory media print (Black/Large)
617	Mail Box print (Full Color + Single Color/Large)	646	Memory media print (Black/Small)
618	Mail Box print (Full Color + Single Color/Small)	651	Memory media print (Full Color/Large/2-sided)
619	Mail Box print (Full Color + Single Color 2)	652	Memory media print (Full Color/Small/2-sided)
620	Mail Box print (Full Color + Single Color 1)	655	Memory media print (Black/Large/2-sided)
621	Mail Box print (Full Color/Large/2-sided)	656	Memory media print (Black/Small/2-sided)

700 to 799

Number on the screen	Counter item	Number on the screen	Counter item
701	Reception print (Total 1)	735	Advanced Box print (Full Color/Large)
702	Reception print (Total 2)	736	Advanced Box print (Full Color/Small)
703	Reception print (Large)	737	Advanced Box print (Black/Large)
704	Reception print (Small)	738	Advanced Box print (Black/Small)
705	Reception print (Full Color 1)	739	Advanced Box print (Full Color/Large/2-sided)
706	Reception print (Full Color 2)	740	Advanced Box print (Full Color/Small/2-sided)
709	Reception print (Black 1)	741	Advanced Box print (Black/Large/2-sided)
710	Reception print (Black 2)	742	Advanced Box print (Black/Small/2-sided)
711	Reception print (Full Color/Large)	743	Network print (Total 1)
712	Reception Print (Full Color/Small)	744	Network print (Total 2)
715	Reception Print (Black/Large)	745	Network print (Large)
716	Reception Print (Black/Small)	746	Network print (Small)
721	Reception Print (Full Color/Large/2-sided)	747	Network print (Full Color 1)
722	Reception Print (Full Color/Small/2-sided)	748	Network print (Full Color 2)
725	Reception Print (Black/Large/2-sided)	749	Network print (Black 1)
726	Reception Print (Black/Small/2-sided)	750	Network print (Black 2)
727	Advanced Box print (Total 1)	751	Network print (Full Color/Large)
728	Advanced Box print (Total 2)	752	Network print (Full Color/Small)
729	Advanced Box print (Large)	753	Network print (Black/Large)
730	Advanced Box print (Small)	754	Network print (Black/Small)
731	Advanced Box print (Full Color 1)	755	Network print (Full Color/Large/2-sided)
732	Advanced Box print (Full Color 2)	756	Network print (Full Color/Small/2-sided)
733	Advanced Box print (Black 1)	757	Network print (Black/Large/2-sided)
734	Advanced Box print (Black 2)	758	Network print (Black/Small/2-sided)

800 to 899

Number on the screen	Counter item	Number on the screen	Counter item
801	Report print (Total 1)	815	Report print (Black/Large)
802	Report print (Total 2)	816	Report print (Black/Small)
803	Report print (Large)	821	Report print (Full Color/Large/2-sided)
804	Report print (Small)	822	Report print (Full Color/Small/2-sided)
805	Report print (Full Color 1)	825	Report print (Black/Large/2-sided)
806	Report print (Full Color 2)	826	Report print (Black/Small/2-sided)
809	Report print (Black 1)		
810	Report print (Black 2)		
811	Report print (Full Color/Large)		
812	Report print (Full Color/Small)		

900 to 999

Number on the screen	Counter item	Number on the screen	Counter item
915	Transmission scan total 2 (Color)	945	Transmission scan/E-mail (Color)
916	Transmission scan total 2 (Black)	946	Transmission scan/E-mail (Black)
917	Transmission scan total 3 (Color)	959	Memory media scan (Color)
918	Transmission scan total 3 (Black)	960	Memory media scan (Black)
921	Transmission scan total 5 (Color)	961	Application scan (Total 1)
922	Transmission scan total 5 (Black)	962	Application black scan (Total 1)
929	Transmission scan total 6 (Color)	963	Application color scan (Total 1)
930	Transmission scan total 6 (Black)	964	Advanced Box scan (Color)
937	Mail Box scan (Color)	965	Advanced Box scan (Black)

Number on the screen	Counter item	Number on the screen	Counter item
938	Mail Box scan (Black)		
939	Remote scan (Color)		
940	Remote scan (Black)		

Removal

Overview

- User data kept by the machine contains address books and inbox documents that users can recognize.
- For security, the Settings/Registration menu for user is provided to delete data on FLASH PCB and perform overwrite deletion to render user data on Storage unrecoverable.
- Before the removal of machine, be sure to explain to the user that the above mode must be used to completely delete data. When performing the user operation as the substitute, make sure that the service staff executes this to prevent the information leak of user data.

■ Cancelling the Device Registration

If Data Backup Service is used, it is required to perform the following steps in the order.

1. **Stop using the Data Backup Service. (Operation on CBIO side)**
2. **Delete all the backup data. (Operation on CBIO side)**
3. **Cancel the device registration. (Operation on the device side)**

NOTE:

For the above-mentioned procedure, see the User's Guide for Data Backup Service or the Service Manual for the imageRUNNER ADVANCE system.

If the User's Guide is not available, see the technical documents published by each sales company.

CAUTION:

Be sure to cancel the device registration before deleting the user, because the device registration cannot be cancelled after deleting the user data.

■ User data deletion

- To delete user data, execute Settings/Registration > Management Settings > System Management > Initialize All Data/Settings. Performing Initialize All Data/Settings returns setting values of Settings/Registration menu to their factory defaults.
- Deletion Mode can be changed. Normally, "Once with 0 (Null) Data" can sufficiently delete data. Note that increasing the number of overwrite increases the time required for the deletion operation.

NOTE:

- When you perform Initialize All Data/Settings, license and data of MEAP application are initialized to the state same as when the HDD is replaced. If any MEAP application may be used by other users after the machine is removed, disable the MEAP application and uninstall it in advance.
- Performing Initialize All Data/Settings does not delete the license of the system option.

■ Deletion of Service Mode Settings

The user mode setting values may have been changed at the user's request. In that case, the service mode setting values should be changed back to the default values before removing the machine.

Work Procedure

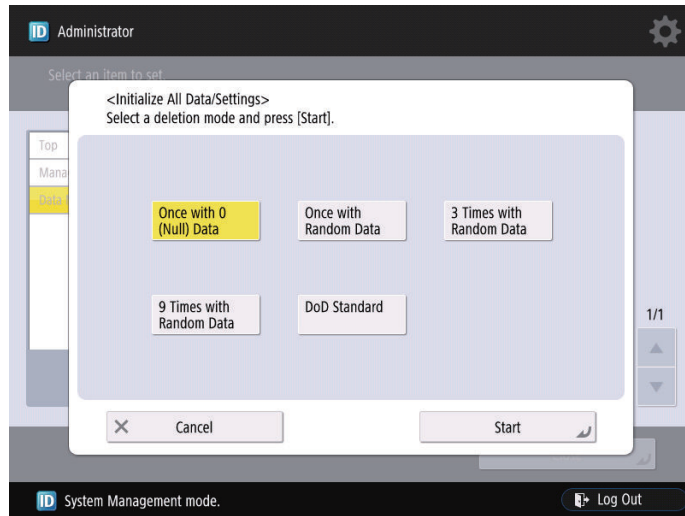
If the user uses MEAP applications, ask the user to uninstall the MEAP applications if necessary.

■ User data delete procedure

1. Settings/Registration > Management Settings > Data Management > Initialize All Data/Settings
2. Select a deletion mode.

3. Press [Start].

If the user has not given any instruction on which item in the deletion mode should be used, select the default "Once with 0 (Null) Data".



NOTE:

- When all the data are initialized, the user data on the HDD and the user data on the Flash PCB are deleted. For the items to be deleted, refer to the backup list.
- Performing "Initialize All Data" turns auto gradation adjustment values and TPM settings to OFF. Therefore, to enable normal operation the next time, the operation performed at installation is necessary.
- Performing Initialize All Data/Settings does not delete the license of the system option.

Report output upon completion of Initialize All Data/Settings

A report is output after "Initialize All Data/Settings" is completed.

Consider using this report to provide to user as a material to inform of work details when executing Initialize All Data/Settings upon user's request.

Operation after Initialize All Data/Settings

The machine is started normally at restart after Initialize All Data/Settings without displaying the message (Turn OFF the main power supply on the right side of the machine) on the screen to prompt shutdown.

The report is output after startup.

```

*****
*** System Information ***
*****

<< Initialize All Data/Settings Report >>

Serial Number          ZZZ99999
Device Name            iR-ADV XXXX (iAXXXX)

Overwrite Method for Deletion Mode  Once with Random Data (*1)

The following data stored in the device has been completely erased.

- Data stored in the temporary data area
- User generated data
- Settings under Settings/Registration (restored to factory defaults)
    
```

*1 display following one.
 "Once with 0 (Null) Data"
 "Once with Random Data"
 "3 Times with Random Data"
 "9 Times with Random Data"
 "DoD Standard"

Limitations

- The language of the report is only English, and cannot be changed.
- The report is output without fail (a function to select ON/OFF of report output is not provided).
- There is no second output of report when the machine is turned ON without paper.
- Only the output of this report remains in the job log.

■ Deletion of Service Mode Setting Values

Service Mode Lev1 > Function> CLEAR > MN-CONT



NOTE:

- When MN-CON clear is executed, the address book on the HDD is not deleted. As for the user data, initialize all the data.
- When MN-CON clear is executed, the password for the security policies will be deleted.

Target PCBs of Automatic Update

The following PCBs are mentioned in the System Service Manual as PCBs supported by the automatic update function.

List of Target PCBs of Automatic Update

Category	Target PCB	Service mode (COPIER > Display > VERSION)
Printer engine	DC Controller PCB	DC-CON
Reader/ADF	Reader Controller PCB	R-CON
Inner Finisher	Finisher Controller PCB	SORTER
Inner Puncher	Puncher Controller PCB	PUNCH
Buffer Path Unit	Buffer Path Controller PCB	BF-PASS
Staple/Booklet Finisher	Finisher Controller PCB	SORTER
		SORT-SLV
	Saddle Stitcher Controller PCB	SDL-STCH
Puncher	Puncher Controller PCB	PUNCH

List of Service Modes That Can Be Restored

The following items are restored when a DCM file obtained by using [Settings/Registration] > [Back Up/Restore] or [Backup/Restoration Using Service Mode] is exported.

Purpose for Using the Function

Case	Export/ Import	Use Case
A	Export from and import to the same device	<ul style="list-style-type: none"> Used as backup in preparation for a device failure Used as backup before changing settings
B	Export from and import to a different device of the same model	<ul style="list-style-type: none"> Collectively migrate data when replacing the host machine Copy the settings to multiple devices (during kitting)
C	Export from and import to a different model	<ul style="list-style-type: none"> Migrate the settings from the old model to the new model when replacing the host machine Migrate the settings of the base machine to a different model for a large-scale user

NOTE:

For the details of the function, refer to "Backup/Restoration" of the System Service Manual.

List of Service Modes That Can Be Restored

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
BOARD	OPTION	-	MENU-1	Restored	Restored	Restored
BOARD	OPTION	-	MENU-2	Restored	Restored	Restored
BOARD	OPTION	-	MENU-3	Restored	Restored	Restored
BOARD	OPTION	-	MENU-4	Restored	Restored	Restored
COPIER	ADJUST	ADJ-XY	ADJ-X	Restored	-	-
COPIER	ADJUST	ADJ-XY	ADJ-Y	Restored	-	-
COPIER	ADJUST	ADJ-XY	ADJ-S	Restored	-	-
COPIER	ADJUST	ADJ-XY	ADJ-Y-DF	Restored	-	-
COPIER	ADJUST	ADJ-XY	STRD-POS	Restored	-	-
COPIER	ADJUST	ADJ-XY	ADJ-X-MG	Restored	-	-
COPIER	ADJUST	ADJ-XY	ADJY-DF2	Restored	-	-
COPIER	ADJUST	BLANK	BLANK-T	Restored	-	-
COPIER	ADJUST	BLANK	BLANK-L	Restored	-	-
COPIER	ADJUST	BLANK	BLANK-R	Restored	-	-
COPIER	ADJUST	BLANK	BLANK-B	Restored	-	-
COPIER	ADJUST	CCD	W-PLT-X	Restored	-	-
COPIER	ADJUST	CCD	W-PLT-Y	Restored	-	-
COPIER	ADJUST	CCD	W-PLT-Z	Restored	-	-
COPIER	ADJUST	CCD	SH-TRGT	Restored	-	-
COPIER	ADJUST	CCD	100-RG	Restored	-	-
COPIER	ADJUST	CCD	100-GB	Restored	-	-
COPIER	ADJUST	CCD	DFTAR-R	Restored	-	-
COPIER	ADJUST	CCD	DFTAR-G	Restored	-	-
COPIER	ADJUST	CCD	DFTAR-B	Restored	-	-
COPIER	ADJUST	CCD	MTF2-M1	Restored	-	-
COPIER	ADJUST	CCD	MTF2-M2	Restored	-	-
COPIER	ADJUST	CCD	MTF2-M3	Restored	-	-
COPIER	ADJUST	CCD	MTF2-M4	Restored	-	-
COPIER	ADJUST	CCD	MTF2-M5	Restored	-	-
COPIER	ADJUST	CCD	MTF2-M6	Restored	-	-
COPIER	ADJUST	CCD	MTF2-M7	Restored	-	-
COPIER	ADJUST	CCD	MTF2-M8	Restored	-	-

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
COPIER	ADJUST	CCD	MTF2-M9	Restored	-	-
COPIER	ADJUST	CCD	MTF2-S1	Restored	-	-
COPIER	ADJUST	CCD	MTF2-S2	Restored	-	-
COPIER	ADJUST	CCD	MTF2-S3	Restored	-	-
COPIER	ADJUST	CCD	MTF2-S4	Restored	-	-
COPIER	ADJUST	CCD	MTF2-S5	Restored	-	-
COPIER	ADJUST	CCD	MTF2-S6	Restored	-	-
COPIER	ADJUST	CCD	MTF2-S7	Restored	-	-
COPIER	ADJUST	CCD	MTF2-S8	Restored	-	-
COPIER	ADJUST	CCD	MTF2-S9	Restored	-	-
COPIER	ADJUST	CCD	100DF2GB	Restored	-	-
COPIER	ADJUST	CCD	100DF2RG	Restored	-	-
COPIER	ADJUST	CCD	DFCH2R2	Restored	-	-
COPIER	ADJUST	CCD	DFCH2R10	Restored	-	-
COPIER	ADJUST	CCD	DFCH2B2	Restored	-	-
COPIER	ADJUST	CCD	DFCH2B10	Restored	-	-
COPIER	ADJUST	CCD	DFCH2G2	Restored	-	-
COPIER	ADJUST	CCD	DFCH2G10	Restored	-	-
COPIER	ADJUST	CCD	MTF-M1	Restored	-	-
COPIER	ADJUST	CCD	MTF-M2	Restored	-	-
COPIER	ADJUST	CCD	MTF-M3	Restored	-	-
COPIER	ADJUST	CCD	MTF-M4	Restored	-	-
COPIER	ADJUST	CCD	MTF-M5	Restored	-	-
COPIER	ADJUST	CCD	MTF-M6	Restored	-	-
COPIER	ADJUST	CCD	MTF-M7	Restored	-	-
COPIER	ADJUST	CCD	MTF-M8	Restored	-	-
COPIER	ADJUST	CCD	MTF-M9	Restored	-	-
COPIER	ADJUST	CCD	MTF-S1	Restored	-	-
COPIER	ADJUST	CCD	MTF-S2	Restored	-	-
COPIER	ADJUST	CCD	MTF-S3	Restored	-	-
COPIER	ADJUST	CCD	MTF-S4	Restored	-	-
COPIER	ADJUST	CCD	MTF-S5	Restored	-	-
COPIER	ADJUST	CCD	MTF-S6	Restored	-	-
COPIER	ADJUST	CCD	MTF-S7	Restored	-	-
COPIER	ADJUST	CCD	MTF-S8	Restored	-	-
COPIER	ADJUST	CCD	MTF-S9	Restored	-	-
COPIER	ADJUST	CCD	DFCH-R2	Restored	-	-
COPIER	ADJUST	CCD	DFCH-R10	Restored	-	-
COPIER	ADJUST	CCD	DFCH-B2	Restored	-	-
COPIER	ADJUST	CCD	DFCH-B10	Restored	-	-
COPIER	ADJUST	CCD	DFCH-G2	Restored	-	-
COPIER	ADJUST	CCD	DFCH-G10	Restored	-	-
COPIER	ADJUST	CCD	MTF2-M10	Restored	-	-
COPIER	ADJUST	CCD	MTF2-M11	Restored	-	-
COPIER	ADJUST	CCD	MTF2-M12	Restored	-	-
COPIER	ADJUST	CCD	MTF2-S10	Restored	-	-
COPIER	ADJUST	CCD	MTF2-S11	Restored	-	-
COPIER	ADJUST	CCD	MTF2-S12	Restored	-	-
COPIER	ADJUST	CCD	MTF-M10	Restored	-	-
COPIER	ADJUST	CCD	MTF-M11	Restored	-	-
COPIER	ADJUST	CCD	MTF-M12	Restored	-	-
COPIER	ADJUST	CCD	MTF-S10	Restored	-	-
COPIER	ADJUST	CCD	MTF-S11	Restored	-	-

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
COPIER	ADJUST	CCD	MTF-S12	Restored	-	-
COPIER	ADJUST	CCD	DFCH2K2	Restored	-	-
COPIER	ADJUST	CCD	DFCH2K10	Restored	-	-
COPIER	ADJUST	CCD	DFCH-K2	Restored	-	-
COPIER	ADJUST	CCD	DFCH-K10	Restored	-	-
COPIER	ADJUST	CCD	DFTAR-BW	Restored	-	-
COPIER	ADJUST	CCD	DFTBK-G	Restored	-	-
COPIER	ADJUST	CCD	DFTBK-B	Restored	-	-
COPIER	ADJUST	CCD	DFTBK-R	Restored	-	-
COPIER	ADJUST	CCD	DFTBK-BW	Restored	-	-
COPIER	ADJUST	COLOR	ADJ-Y	Restored	-	-
COPIER	ADJUST	COLOR	ADJ-M	Restored	-	-
COPIER	ADJUST	COLOR	ADJ-C	Restored	-	-
COPIER	ADJUST	COLOR	ADJ-K	Restored	-	-
COPIER	ADJUST	COLOR	OFST-Y	Restored	-	-
COPIER	ADJUST	COLOR	OFST-M	Restored	-	-
COPIER	ADJUST	COLOR	OFST-C	Restored	-	-
COPIER	ADJUST	COLOR	OFST-K	Restored	-	-
COPIER	ADJUST	COLOR	LD-OFS-Y	Restored	-	-
COPIER	ADJUST	COLOR	LD-OFS-M	Restored	-	-
COPIER	ADJUST	COLOR	LD-OFS-C	Restored	-	-
COPIER	ADJUST	COLOR	LD-OFS-K	Restored	-	-
COPIER	ADJUST	COLOR	MD-OFS-Y	Restored	-	-
COPIER	ADJUST	COLOR	MD-OFS-M	Restored	-	-
COPIER	ADJUST	COLOR	MD-OFS-C	Restored	-	-
COPIER	ADJUST	COLOR	MD-OFS-K	Restored	-	-
COPIER	ADJUST	COLOR	HD-OFS-Y	Restored	-	-
COPIER	ADJUST	COLOR	HD-OFS-M	Restored	-	-
COPIER	ADJUST	COLOR	HD-OFS-C	Restored	-	-
COPIER	ADJUST	COLOR	HD-OFS-K	Restored	-	-
COPIER	ADJUST	COLOR	PL-OFS-Y	Restored	-	-
COPIER	ADJUST	COLOR	PL-OFS-M	Restored	-	-
COPIER	ADJUST	COLOR	PL-OFS-C	Restored	-	-
COPIER	ADJUST	COLOR	PL-OFS-K	Restored	-	-
COPIER	ADJUST	COLOR	PM-OFS-Y	Restored	-	-
COPIER	ADJUST	COLOR	PM-OFS-M	Restored	-	-
COPIER	ADJUST	COLOR	PM-OFS-C	Restored	-	-
COPIER	ADJUST	COLOR	PM-OFS-K	Restored	-	-
COPIER	ADJUST	COLOR	PH-OFS-Y	Restored	-	-
COPIER	ADJUST	COLOR	PH-OFS-M	Restored	-	-
COPIER	ADJUST	COLOR	PH-OFS-C	Restored	-	-
COPIER	ADJUST	COLOR	PH-OFS-K	Restored	-	-
COPIER	ADJUST	CST-ADJ	MF-A4R	Restored	-	-
COPIER	ADJUST	CST-ADJ	MF-A4	Restored	-	-
COPIER	ADJUST	CST-ADJ	CST-VLM1	Restored	-	-
COPIER	ADJUST	CST-ADJ	CST-VLM2	Restored	-	-
COPIER	ADJUST	CST-ADJ	CST-VLM3	Restored	-	-
COPIER	ADJUST	CST-ADJ	CST-VLM4	Restored	-	-
COPIER	ADJUST	CST-ADJ	MF-MAX	Restored	-	-
COPIER	ADJUST	CST-ADJ	MF-MIN	Restored	-	-
COPIER	ADJUST	CST-ADJ	MF-A5R	Restored	-	-
COPIER	ADJUST	DENS	SGNL-Y	Restored	-	-
COPIER	ADJUST	DENS	SGNL-M	Restored	-	-

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
COPIER	ADJUST	DENS	SGNL-C	Restored	-	-
COPIER	ADJUST	DENS	REF-Y	Restored	-	-
COPIER	ADJUST	DENS	REF-M	Restored	-	-
COPIER	ADJUST	DENS	REF-C	Restored	-	-
COPIER	ADJUST	DENS	SGNL-K	Restored	-	-
COPIER	ADJUST	DENS	DMAX-Y	Restored	-	-
COPIER	ADJUST	DENS	DMAX-M	Restored	-	-
COPIER	ADJUST	DENS	DMAX-C	Restored	-	-
COPIER	ADJUST	DENS	P-TG-Y	Restored	-	-
COPIER	ADJUST	DENS	P-TG-M	Restored	-	-
COPIER	ADJUST	DENS	P-TG-C	Restored	-	-
COPIER	ADJUST	DENS	P-TG-K	Restored	-	-
COPIER	ADJUST	DENS	DMAX-K	Restored	-	-
COPIER	ADJUST	DENS	REF-K	Restored	-	-
COPIER	ADJUST	DENS	CONT-Y	Restored	-	-
COPIER	ADJUST	DENS	CONT-M	Restored	-	-
COPIER	ADJUST	DENS	CONT-C	Restored	-	-
COPIER	ADJUST	DENS	CONT-K	Restored	-	-
COPIER	ADJUST	EXP-LED	PR-EXP-Y	Restored	-	-
COPIER	ADJUST	EXP-LED	PR-EXP-M	Restored	-	-
COPIER	ADJUST	EXP-LED	PR-EXP-C	Restored	-	-
COPIER	ADJUST	EXP-LED	PR-EXP-K	Restored	-	-
COPIER	ADJUST	FEED-ADJ	REGIST	Restored	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-C1	Restored	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-C2	Restored	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-C3	Restored	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-C4	Restored	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-MF	Restored	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-DK	Restored	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-C1RE	Restored	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-C2RE	Restored	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-C3RE	Restored	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-C4RE	Restored	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-DKRE	Restored	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-MFRE	Restored	-	-
COPIER	ADJUST	FEED-ADJ	REG-THCK	Restored	-	-
COPIER	ADJUST	FEED-ADJ	REG-OHT	Restored	-	-
COPIER	ADJUST	FEED-ADJ	REG-DUP1	Restored	-	-
COPIER	ADJUST	FEED-ADJ	REG-DUP2	Restored	-	-
COPIER	ADJUST	FEED-ADJ	LP-FEED1	Restored	-	-
COPIER	ADJUST	FEED-ADJ	LP-MULT1	Restored	-	-
COPIER	ADJUST	FEED-ADJ	LP-DUP1	Restored	-	-
COPIER	ADJUST	FEED-ADJ	REG-SPD	Restored	-	-
COPIER	ADJUST	FEED-ADJ	EXRV-SPD	Restored	-	-
COPIER	ADJUST	HV-PRI	DIS-TGY	Restored	-	-
COPIER	ADJUST	HV-PRI	DIS-TGM	Restored	-	-
COPIER	ADJUST	HV-PRI	DIS-TGC	Restored	-	-
COPIER	ADJUST	HV-PRI	DIS-TGK	Restored	-	-
COPIER	ADJUST	HV-PRI	DIS-TGY2	Restored	-	-
COPIER	ADJUST	HV-PRI	DIS-TGM2	Restored	-	-
COPIER	ADJUST	HV-PRI	DIS-TGC2	Restored	-	-
COPIER	ADJUST	HV-PRI	DIS-TGK2	Restored	-	-
COPIER	ADJUST	HV-PRI	OFSTAC-Y	Restored	-	-

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
COPIER	ADJUST	HV-PRI	OFSTAC-M	Restored	-	-
COPIER	ADJUST	HV-PRI	OFSTAC-C	Restored	-	-
COPIER	ADJUST	HV-PRI	OFSTAC-K	Restored	-	-
COPIER	ADJUST	HV-PRI	OFSTACY2	Restored	-	-
COPIER	ADJUST	HV-PRI	OFSTACM2	Restored	-	-
COPIER	ADJUST	HV-PRI	OFSTACC2	Restored	-	-
COPIER	ADJUST	HV-PRI	OFSTACK2	Restored	-	-
COPIER	ADJUST	HV-TR	1TR-TGY	Restored	-	-
COPIER	ADJUST	HV-TR	1TR-TGM	Restored	-	-
COPIER	ADJUST	HV-TR	1TR-TGC	Restored	-	-
COPIER	ADJUST	HV-TR	1TR-TGK1	Restored	-	-
COPIER	ADJUST	HV-TR	1TR-TGKT	Restored	-	-
COPIER	ADJUST	HV-TR	2TR-OFF	Restored	-	-
COPIER	ADJUST	HV-TR	1TR-TGY2	Restored	-	-
COPIER	ADJUST	HV-TR	1TR-TGM2	Restored	-	-
COPIER	ADJUST	HV-TR	1TR-TGC2	Restored	-	-
COPIER	ADJUST	HV-TR	1TR-TK12	Restored	-	-
COPIER	ADJUST	HV-TR	1TR-TGY3	Restored	-	-
COPIER	ADJUST	HV-TR	1TR-TGM3	Restored	-	-
COPIER	ADJUST	HV-TR	1TR-TGC3	Restored	-	-
COPIER	ADJUST	HV-TR	1TR-TK13	Restored	-	-
COPIER	ADJUST	HV-TR	1TR-TK42	Restored	-	-
COPIER	ADJUST	HV-TR	1TR-TK43	Restored	-	-
COPIER	ADJUST	HV-TR	T2TR-LNG	Restored	-	-
COPIER	ADJUST	HV-TR	B2TR-LNG	Restored	-	-
COPIER	ADJUST	HV-TR	T2TR-H51	Restored	-	-
COPIER	ADJUST	HV-TR	T2TR-H52	Restored	-	-
COPIER	ADJUST	HV-TR	T2TR-H61	Restored	-	-
COPIER	ADJUST	HV-TR	T2TR-H62	Restored	-	-
COPIER	ADJUST	HV-TR	T2TR-H71	Restored	-	-
COPIER	ADJUST	HV-TR	T2TR-H72	Restored	-	-
COPIER	ADJUST	HV-TR	WK-TGTN	Restored	-	-
COPIER	ADJUST	HV-TR	WK-TGTC	Restored	-	-
COPIER	ADJUST	HV-TR	WK-TGTH1	Restored	-	-
COPIER	ADJUST	HV-TR	WK-TGTH2	Restored	-	-
COPIER	ADJUST	HV-TR	2TRI-UP	Restored	-	-
COPIER	ADJUST	HV-TR	2TRI-LOW	Restored	-	-
COPIER	ADJUST	IMG-REG	REG-H-Y	Restored	-	-
COPIER	ADJUST	IMG-REG	REG-H-C	Restored	-	-
COPIER	ADJUST	IMG-REG	REG-H-K	Restored	-	-
COPIER	ADJUST	IMG-REG	REG-HS-Y	Restored	-	-
COPIER	ADJUST	IMG-REG	REG-HS-C	Restored	-	-
COPIER	ADJUST	IMG-REG	REG-HS-K	Restored	-	-
COPIER	ADJUST	IMG-REG	REG-V-Y	Restored	-	-
COPIER	ADJUST	IMG-REG	REG-V-C	Restored	-	-
COPIER	ADJUST	IMG-REG	REG-V-K	Restored	-	-
COPIER	ADJUST	IMG-REG	REG-H-M	Restored	-	-
COPIER	ADJUST	IMG-REG	REG-V-M	Restored	-	-
COPIER	ADJUST	IMG-REG	REG-HS-M	Restored	-	-
COPIER	ADJUST	IMG-REG	MAG-H	Restored	-	-
COPIER	ADJUST	IMG-REG	MAG-V	Restored	-	-
COPIER	ADJUST	MISC	SEG-ADJ	Restored	-	-
COPIER	ADJUST	MISC	K-ADJ	Restored	-	-

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
COPIER	ADJUST	MISC	ACS-ADJ	Restored	-	-
COPIER	ADJUST	MISC	ACS-EN	Restored	-	-
COPIER	ADJUST	MISC	ACS-CNT	Restored	-	-
COPIER	ADJUST	MISC	ACS-EN2	Restored	-	-
COPIER	ADJUST	MISC	ACS-CNT2	Restored	-	-
COPIER	ADJUST	MISC	SEG-ADJ3	Restored	-	-
COPIER	ADJUST	MISC	K-ADJ3	Restored	-	-
COPIER	ADJUST	MISC	ACS-ADJ3	Restored	-	-
COPIER	ADJUST	MISC	ACS-EN3	Restored	-	-
COPIER	ADJUST	MISC	ACS-CNT3	Restored	-	-
COPIER	ADJUST	MISC	SH-ADJ	Restored	-	-
COPIER	ADJUST	MISC	SH-ADJ2	Restored	-	-
COPIER	ADJUST	PASCAL	OFST-P-Y	Restored	-	-
COPIER	ADJUST	PASCAL	OFST-P-M	Restored	-	-
COPIER	ADJUST	PASCAL	OFST-P-C	Restored	-	-
COPIER	ADJUST	PASCAL	OFST-P-K	Restored	-	-
COPIER	ADJUST	V-CONT	VCONT-Y	Restored	-	-
COPIER	ADJUST	V-CONT	VCONT-M	Restored	-	-
COPIER	ADJUST	V-CONT	VCONT-C	Restored	-	-
COPIER	ADJUST	V-CONT	VCONT-K	Restored	-	-
COPIER	ADJUST	V-CONT	VBACK-Y	Restored	-	-
COPIER	ADJUST	V-CONT	VBACK-M	Restored	-	-
COPIER	ADJUST	V-CONT	VBACK-C	Restored	-	-
COPIER	ADJUST	V-CONT	VBACK-K	Restored	-	-
COPIER	FUNCTION	INSTALL	E-RDS	Restored	Restored	Restored
COPIER	FUNCTION	INSTALL	RGW-PORT	Restored	Restored	Restored
COPIER	FUNCTION	INSTALL	RGW-ADR	Restored	Restored	Restored
COPIER	FUNCTION	INSTALL	CDS-CTL	Restored	Restored	Restored
COPIER	FUNCTION	INSTALL	BIT-SVC	Restored	Restored	Restored
COPIER	FUNCTION	INSTALL	NFC-USE	Restored	-	-
COPIER	FUNCTION	INSTALL	BLE-USE	Restored	-	-
COPIER	FUNCTION	INSTALL	PATCH-S	Restored	-	-
COPIER	FUNCTION	INSTALL	FAX-USE	Restored	Restored	Restored
COPIER	FUNCTION	LASER	H-PS-YM	Restored	-	-
COPIER	FUNCTION	LASER	H-PS-CK	Restored	-	-
COPIER	FUNCTION	MISC-R	1PCLBUDR	Restored	-	-
COPIER	FUNCTION	MISC-R	1PCLBOVR	Restored	-	-
COPIER	OPTION	ACC	COIN	Restored	-	-
COPIER	OPTION	ACC	DK-P	Restored	-	-
COPIER	OPTION	ACC	CARD-SW	Restored	-	-
COPIER	OPTION	ACC	STPL-LMT	Restored	Restored	Restored
COPIER	OPTION	ACC	OUT-TRAY	Restored	-	-
COPIER	OPTION	ACC	CC-SPSW	Restored	-	-
COPIER	OPTION	ACC	UNIT-PRC	Restored	-	-
COPIER	OPTION	ACC	IN-TRAY	Restored	-	-
COPIER	OPTION	ACC	MIN-PRC	Restored	-	-
COPIER	OPTION	ACC	MAX-PRC	Restored	-	-
COPIER	OPTION	ACC	MIC-TUN	Restored	-	-
COPIER	OPTION	ACC	SRL-SPSW	Restored	-	-
COPIER	OPTION	ACC	PDL-THR	Restored	-	-
COPIER	OPTION	ACC	CR-TYPE	Restored	Restored	-
COPIER	OPTION	ACC	MEAP-SRL	Restored	Restored	-
COPIER	OPTION	ACC	HCC-P	Restored	Restored	-

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
COPIER	OPTION	ACC	CV-CSZ	Restored	Restored	Restored
COPIER	OPTION	ACC	IMG-RTRY	Restored	Restored	-
COPIER	OPTION	ACC	COIN-AUT	Restored	-	-
COPIER	OPTION	FNC-SW	MODEL-SZ	Restored	-	-
COPIER	OPTION	FNC-SW	SCANSLCT	Restored	-	-
COPIER	OPTION	IMG-MCON	PASCAL	Restored	-	-
COPIER	OPTION	FNC-SW	DH-SW	Restored	Restored	-
COPIER	OPTION	FNC-SW	SENS-CNF	Restored	-	-
COPIER	OPTION	FNC-SW	CONFIG	Restored	-	-
COPIER	OPTION	NETWORK	RAW-DATA	Restored	Restored	Restored
COPIER	OPTION	NETWORK	IFAX-LIM	Restored	Restored	Restored
COPIER	OPTION	CUSTOM	TEMP-TBL	Restored	-	-
COPIER	OPTION	FNC-SW	W/SCNR	Restored	-	-
COPIER	OPTION	NETWORK	SMTPTXPN	Restored	Restored	Restored
COPIER	OPTION	NETWORK	SMTPRXPN	Restored	Restored	Restored
COPIER	OPTION	NETWORK	POP3PN	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	ORG-LGL	Restored	Restored	-
COPIER	OPTION	FNC-SW	ORG-LTR	Restored	Restored	-
COPIER	OPTION	FNC-SW	ORG-LTRR	Restored	Restored	-
COPIER	OPTION	FNC-SW	ORG-LDR	Restored	Restored	-
COPIER	OPTION	FNC-SW	ORG-B5	Restored	Restored	-
COPIER	OPTION	DSPLY-SW	UI-COPY	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	UI-BOX	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	UI-SEND	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	UI-FAX	Restored	Restored	Restored
COPIER	OPTION	IMG-MCON	SCR-SLCT	Restored	Restored	-
COPIER	OPTION	IMG-MCON	TMC-SLCT	Restored	-	-
COPIER	OPTION	NETWORK	FTPTXPN	Restored	Restored	Restored
COPIER	OPTION	IMG-DEV	INTPPR-1	Restored	-	-
COPIER	OPTION	IMG-MCON	PRN-FLG	Restored	Restored	-
COPIER	OPTION	IMG-MCON	SCN-FLG	Restored	Restored	-
COPIER	OPTION	IMG-DEV	DVTGT-K	Restored	-	-
COPIER	OPTION	FNC-SW	INTROT-1	Restored	-	-
COPIER	OPTION	FNC-SW	INTROT-2	Restored	-	-
COPIER	OPTION	DSPLY-SW	NWERR-SW	Restored	Restored	Restored
COPIER	OPTION	IMG-DEV	DVTGT-Y	Restored	-	-
COPIER	OPTION	IMG-DEV	DVTGT-M	Restored	-	-
COPIER	OPTION	IMG-DEV	DVTGT-C	Restored	-	-
COPIER	OPTION	IMG-DEV	AUTO-DH	Restored	-	-
COPIER	OPTION	NETWORK	STS-PORT	Restored	Restored	Restored
COPIER	OPTION	NETWORK	CMD-PORT	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	BK-4CSW	Restored	-	-
COPIER	OPTION	FNC-SW	MODELSZ2	Restored	-	-
COPIER	OPTION	CLEANING	OHP-PTH	Restored	-	-
COPIER	OPTION	IMG-RDR	DFDST-L1	Restored	-	-
COPIER	OPTION	IMG-RDR	DFDST-L2	Restored	-	-
COPIER	OPTION	NETWORK	NS-CMD5	Restored	Restored	Restored
COPIER	OPTION	NETWORK	NS-GSAPI	Restored	Restored	Restored
COPIER	OPTION	NETWORK	NS-NTLM	Restored	Restored	Restored
COPIER	OPTION	NETWORK	NS-PLNWS	Restored	Restored	Restored
COPIER	OPTION	NETWORK	NS-PLN	Restored	Restored	Restored
COPIER	OPTION	NETWORK	NS-LGN	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	T-CRG-SW	Restored	-	-

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
COPIER	OPTION	NETWORK	MEAP-PN	Restored	Restored	Restored
COPIER	OPTION	IMG-MCON	TMIC-BK	Restored	Restored	-
COPIER	OPTION	FNC-SW	SVMD-ENT	Restored	Restored	Restored
COPIER	OPTION	ENV-SET	ENVP-INT	Restored	Restored	Restored
COPIER	OPTION	IMG-DEV	PCHINT-1	Restored	-	-
COPIER	OPTION	IMG-DEV	PCHINT-V	Restored	-	-
COPIER	OPTION	FNC-SW	FXWRNLVL	Restored	-	-
COPIER	OPTION	DSPLY-SW	FXMSG-SW	Restored	Restored	Restored
COPIER	OPTION	NETWORK	CHNG-STS	Restored	Restored	Restored
COPIER	OPTION	NETWORK	CHNG-CMD	Restored	Restored	Restored
COPIER	OPTION	NETWORK	MEAP-SSL	Restored	Restored	Restored
COPIER	OPTION	CUSTOM	SC-L-CNT	Restored	Restored	-
COPIER	OPTION	IMG-MCON	MIX-FLG	Restored	Restored	-
COPIER	OPTION	CLEANING	ITBB-TMG	Restored	-	-
COPIER	OPTION	IMG-SPD	FX-D-TMP	Restored	-	-
COPIER	OPTION	IMG-SPD	FIX-ROT	Restored	-	-
COPIER	OPTION	IMG-FIX	FX-S-TMP	Restored	-	-
COPIER	OPTION	IMG-MCON	REPORT-Z	Restored	Restored	-
COPIER	OPTION	IMG-MCON	IFXEML-Z	Restored	Restored	-
COPIER	OPTION	IMG-MCON	BMLNKS-Z	Restored	Restored	-
COPIER	OPTION	FNC-SW	KSIZE-SW	Restored	Restored	-
COPIER	OPTION	NETWORK	LPD-PORT	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	ORG-A4R	Restored	Restored	-
COPIER	OPTION	FNC-SW	PDF-RDCT	Restored	Restored	Restored
COPIER	OPTION	IMG-MCON	REDU-CNT	Restored	-	-
COPIER	OPTION	FNC-SW	REBOOTSW	Restored	Restored	Restored
COPIER	OPTION	IMG-MCON	VP-ART	Restored	-	-
COPIER	OPTION	IMG-MCON	VP-TXT	Restored	-	-
COPIER	OPTION	DSPLY-SW	UI-PRINT	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	SJB-UNW	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	IMGC-ADJ	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	UI-RSCAN	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	UI-WEB	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	UI-HOLD	Restored	Restored	Restored
COPIER	OPTION	IMG-MCON	PASCL-TY	Restored	Restored	-
COPIER	OPTION	FNC-SW	CARD-RNG	Restored	Restored	-
COPIER	OPTION	NETWORK	WUEN-LIV	Restored	Restored	Restored
COPIER	OPTION	IMG-DEV	DELV-THY	Restored	-	-
COPIER	OPTION	IMG-DEV	DELV-THC	Restored	-	-
COPIER	OPTION	IMG-DEV	DELV-THM	Restored	-	-
COPIER	OPTION	IMG-DEV	DELV-THK	Restored	-	-
COPIER	OPTION	IMG-DEV	ADJ-VPP	Restored	-	-
COPIER	OPTION	IMG-MCON	AST-SEL	Restored	-	-
COPIER	OPTION	IMG-FIX	TMP-TBL2	Restored	-	-
COPIER	OPTION	IMG-FIX	TMP-TBL3	Restored	-	-
COPIER	OPTION	IMG-FIX	TMP-TBL4	Restored	-	-
COPIER	OPTION	IMG-FIX	TMP-TBL5	Restored	-	-
COPIER	OPTION	IMG-FIX	TMP-TBL6	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-TMP2	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-TMP3	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-TMP4	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-TMP5	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-TMP6	Restored	-	-

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
COPIER	OPTION	IMG-FIX	FXST2-N2	Restored	-	-
COPIER	OPTION	IMG-FIX	FXST2-UH	Restored	-	-
COPIER	OPTION	IMG-FIX	FN-ENTMP	Restored	-	-
COPIER	OPTION	FNC-SW	SJOB-CL	Restored	Restored	Restored
COPIER	OPTION	IMG-FIX	FLYING	Restored	-	-
COPIER	OPTION	FNC-SW	DELV-FN2	Restored	-	-
COPIER	OPTION	IMG-FIX	TMP-TBL7	Restored	-	-
COPIER	OPTION	NETWORK	IFX-CHIG	Restored	Restored	Restored
COPIER	OPTION	NETWORK	DNSTRANS	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	MIBCOUNT	Restored	Restored	Restored
COPIER	OPTION	IMG-FIX	TMP-TBL8	Restored	-	-
COPIER	OPTION	ENV-SET	DRY-CISU	Restored	-	-
COPIER	OPTION	DSPLY-SW	RMT-CNSL	Restored	Restored	Restored
COPIER	OPTION	FEED-SW	EVLP-SPD	Restored	-	-
COPIER	OPTION	IMG-DEV	SL-RATIO	Restored	-	-
COPIER	OPTION	NETWORK	PROXYRES	Restored	Restored	Restored
COPIER	OPTION	NETWORK	WOLTRANS	Restored	Restored	Restored
COPIER	OPTION	IMG-RDR	DF2DSTL1	Restored	-	-
COPIER	OPTION	IMG-RDR	DF2DSTL2	Restored	-	-
COPIER	OPTION	NETWORK	802XTOUT	Restored	Restored	Restored
COPIER	OPTION	NETWORK	NCONF-SW	Restored	Restored	Restored
COPIER	OPTION	CUSTOM	ABK-TOOL	Restored	Restored	Restored
COPIER	OPTION	IMG-DEV	DMX-OF-Y	Restored	-	-
COPIER	OPTION	IMG-DEV	DMX-OF-M	Restored	-	-
COPIER	OPTION	IMG-DEV	DMX-OF-C	Restored	-	-
COPIER	OPTION	IMG-DEV	DMX-OF-K	Restored	-	-
COPIER	OPTION	FEED-SW	PINT-REG	Restored	-	-
COPIER	OPTION	FNC-SW	W/RAID	Restored	Restored	-
COPIER	OPTION	FNC-SW	PSWD-SW	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	SM-PSWD	Restored	Restored	Restored
COPIER	OPTION	CUSTOM	DEV-SP1	Restored	-	-
COPIER	OPTION	CUSTOM	DEV-SP2	Restored	-	-
COPIER	OPTION	FNC-SW	RPT2SIDE	Restored	Restored	Restored
COPIER	OPTION	NETWORK	AFS-JOB	Restored	Restored	Restored
COPIER	OPTION	NETWORK	AFC-EVNT	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	UI-SBOX	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	UI-MEM	Restored	Restored	Restored
COPIER	OPTION	NETWORK	ILOGMODE	Restored	Restored	Restored
COPIER	OPTION	NETWORK	ILOGKEEP	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	PSCL-MS	Restored	-	-
COPIER	OPTION	FNC-SW	DMX-DISP	Restored	-	-
COPIER	OPTION	DSPLY-SW	UI-NAVI	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	INVALPDL	Restored	Restored	-
COPIER	OPTION	FNC-SW	IMGCNTPR	Restored	Restored	-
COPIER	OPTION	FNC-SW	CDS-FIRM	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	CDS-MEAP	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	CDS-UGW	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	LOCLFIRM	Restored	Restored	Restored
COPIER	OPTION	IMG-FIX	TMP-TBL9	Restored	-	-
COPIER	OPTION	IMG-FIX	TMP-TB10	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-TMP7	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-TMP8	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-TM10	Restored	-	-

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
COPIER	OPTION	CUSTOM	DEV-SP3	Restored	-	-
COPIER	OPTION	CUSTOM	DEV-SP4	Restored	-	-
COPIER	OPTION	CUSTOM	DEV-SP5	Restored	-	-
COPIER	OPTION	CUSTOM	DEV-SP6	Restored	-	-
COPIER	OPTION	CUSTOM	DEV-SP7	Restored	-	-
COPIER	OPTION	CUSTOM	DEV-SP8	Restored	-	-
COPIER	OPTION	NETWORK	IPTBROAD	Restored	Restored	Restored
COPIER	OPTION	IMG-FIX	FXS-TMP9	Restored	-	-
COPIER	OPTION	DSPLY-SW	FCOT-DSP	Restored	Restored	Restored
COPIER	OPTION	NETWORK	PFWFTPRT	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	BXNUPLOG	Restored	Restored	Restored
COPIER	OPTION	IMG-FIX	THIN-LP	Restored	-	-
COPIER	OPTION	FEED-SW	EVLP-FS	Restored	-	-
COPIER	OPTION	FEED-SW	TFL-RTC	Restored	Restored	-
COPIER	OPTION	DSPLY-SW	UI-CUSTM	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	SDLMTWRN	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	AUTO-OUT	Restored	-	-
COPIER	OPTION	FNC-SW	JLK-PWSC	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	CNTCNFSW	Restored	-	-
COPIER	OPTION	FEED-SW	USZ-FEED	Restored	Restored	Restored
COPIER	OPTION	NETWORK	DDNSINTV	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	FAX-INT	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	PDL-Z-LG	Restored	Restored	-
COPIER	OPTION	FNC-SW	CDS-LVUP	Restored	Restored	Restored
COPIER	OPTION	IMG-FIX	TMP-TB11	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-TM11	Restored	-	-
COPIER	OPTION	FNC-SW	AMSOFFSW	Restored	Restored	Restored
COPIER	OPTION	CUSTOM	USEUPTNR	Restored	-	-
COPIER	OPTION	FNC-SW	UA-OFFSW	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	MIB-NVTA	Restored	Restored	-
COPIER	OPTION	FNC-SW	MIB-EXT	Restored	Restored	-
COPIER	OPTION	CUSTOM	DFEJCLED	Restored	-	-
COPIER	OPTION	FNC-SW	SVC-RUI	Restored	Restored	-
COPIER	OPTION	IMG-MCON	PSCL-TBL	Restored	-	-
COPIER	OPTION	IMG-MCON	BGE-OFS	Restored	-	-
COPIER	OPTION	FNC-SW	LCDSFLG	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	SDTM-DSP	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	BXSHIFT	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	HOME-SW	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	NO-LGOUT	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	JM-ERR-D	Restored	-	-
COPIER	OPTION	FNC-SW	JM-ERR-R	Restored	-	-
COPIER	OPTION	IMG-FIX	PLN-LP	Restored	-	-
COPIER	OPTION	IMG-FIX	TRC-LP	Restored	-	-
COPIER	OPTION	NETWORK	SIPAUDIO	Restored	Restored	Restored
COPIER	OPTION	NETWORK	SIPINOUT	Restored	Restored	Restored
COPIER	OPTION	NETWORK	SIPREGPR	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	ASLPMAX	Restored	Restored	Restored
COPIER	OPTION	NETWORK	VLAN-SW	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	SEND-SPD	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	2TR-TBLS	Restored	Restored	-
COPIER	OPTION	IMG-MCON	DITH-FB	Restored	-	-
COPIER	OPTION	IMG-MCON	FL-FB	Restored	-	-

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
COPIER	OPTION	IMG-MCON	INT-FB	Restored	-	-
COPIER	OPTION	IMG-MCON	PTN-INT	Restored	-	-
COPIER	OPTION	FNC-SW	VER-CHNG	Restored	Restored	Restored
COPIER	OPTION	NETWORK	FTPMODE	Restored	Restored	Restored
COPIER	OPTION	NETWORK	SSLMODE	Restored	Restored	Restored
COPIER	OPTION	NETWORK	SSLSTRNG	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	UI-PPA	Restored	Restored	Restored
COPIER	OPTION	NETWORK	NW-WAIT	Restored	Restored	Restored
COPIER	OPTION	NETWORK	WLAN-USE	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	CE-DSP	Restored	-	-
COPIER	OPTION	NETWORK	WLANPORT	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	LIMFNC-M	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	LOCAL-SZ	Restored	Restored	-
COPIER	OPTION	CUSTOM	PSCL-QS	Restored	Restored	Restored
COPIER	OPTION	CUSTOM	PAP-TYPE	Restored	Restored	Restored
COPIER	OPTION	CUSTOM	TIFFJPEG	Restored	Restored	Restored
COPIER	OPTION	NETWORK	RAW-PORT	Restored	Restored	Restored
COPIER	OPTION	NETWORK	LINKWAKE	Restored	-	-
COPIER	OPTION	DSPLY-SW				-
COPIER	OPTION	FNC-SW	PICLOGIN	Restored	Restored	-
COPIER	OPTION	CUSTOM	CPYROT-D	Restored	Restored	-
COPIER	OPTION	CUSTOM	CPYROT-S	Restored	Restored	-
COPIER	OPTION	CUSTOM	PRNROT-D	Restored	Restored	-
COPIER	OPTION	CUSTOM	PRNROT-S	Restored	Restored	-
COPIER	OPTION	DSPLY-SW	MD-PSCL	Restored	Restored	-
COPIER	OPTION	CLEANING	DRMB-TMG	Restored	-	-
COPIER	OPTION	CLEANING	DRMR-TMG	Restored	-	-
COPIER	OPTION	CLEANING	DRMR-MNG	Restored	-	-
COPIER	OPTION	IMG-DEV	ZAB-TH	Restored	-	-
COPIER	OPTION	IMG-DEV	ZAB-DENS	Restored	-	-
COPIER	OPTION	FNC-SW	1TRDELAY	Restored	-	-
COPIER	OPTION	IMG-DEV	IMG-FEED	Restored	-	-
COPIER	OPTION	FNC-SW	ITBGST	Restored	-	-
COPIER	OPTION	IMG-SPD	INTPPR-2	Restored	-	-
COPIER	OPTION	CUSTOM	DCM-EXCL	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	DCONTRY	Restored	-	-
COPIER	OPTION	DSPLY-SW	SND-NAME	Restored	Restored	Restored
COPIER	OPTION	IMG-FIX	FXS-T001	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-T002	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-T003	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-T004	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-T005	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-T006	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-T007	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-T008	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-T009	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-T010	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-T012	Restored	-	-
COPIER	OPTION	IMG-FIX	FXS-T013	Restored	-	-
COPIER	OPTION	IMG-FIX	TMP-TB01	Restored	-	-
COPIER	OPTION	IMG-FIX	TMP-TB02	Restored	-	-
COPIER	OPTION	IMG-FIX	TMP-TB03	Restored	-	-
COPIER	OPTION	IMG-FIX	TMP-TB04	Restored	-	-

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
COPIER	OPTION	IMG-FIX	TMP-TB05	Restored	-	-
COPIER	OPTION	IMG-FIX	TMP-TB06	Restored	-	-
COPIER	OPTION	IMG-FIX	TMP-TB07	Restored	-	-
COPIER	OPTION	IMG-FIX	TMP-TB08	Restored	-	-
COPIER	OPTION	IMG-FIX	TMP-TB09	Restored	-	-
COPIER	OPTION	IMG-FIX	TMP-T010	Restored	-	-
COPIER	OPTION	IMG-FIX	TMP-T011	Restored	-	-
COPIER	OPTION	IMG-FIX	TMP-T012	Restored	-	-
COPIER	OPTION	DSPLY-SW	PCMP-DSP	Restored	Restored	Restored
COPIER	OPTION	FNC-SW	FL-START	Restored	Restored	Restored
COPIER	OPTION	CUSTOM	FPOT-MD	Restored	Restored	Restored
COPIER	OPTION	NETWORK	BLEPOWER	Restored	-	-
COPIER	OPTION	NETWORK	WSMC-USE	Restored	Restored	Restored
COPIER	OPTION	IMG-FIX	REC-LP	Restored	-	-
COPIER	OPTION	FNC-SW	STAY-OUT	Restored	-	-
COPIER	OPTION	IMG-MCON	BOLD-SEL	Restored	-	-
COPIER	OPTION	FNC-SW				-
COPIER	OPTION	FNC-SW	3RDP-MSG	Restored	-	-
COPIER	OPTION	DSPLY-SW	ERR-DISP	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	SVC-ACA	Restored	Restored	Restored
COPIER	OPTION	NETWORK	INTENT	Restored	-	-
COPIER	OPTION	IMG-MCON	BIN-SEL	Restored	-	-
COPIER	OPTION	DSPLY-SW	RMT-CNCT	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	SVC-SRA	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	LF-DSP-S	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	LF-DSP-U	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	ERRL-DSP	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	JLG-UD-D	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	UFOS-DSP	Restored	Restored	Restored
COPIER	OPTION	DSPLY-SW	SVC-DAT	Restored	Restored	Restored
COPIER	OPTION	CST	CST1-P1	Restored	Restored	-
COPIER	OPTION	CST	CST2-P1	Restored	Restored	-
COPIER	OPTION	CST	CST3-P1	Restored	Restored	-
COPIER	OPTION	CST	CST4-P1	Restored	Restored	-
COPIER	OPTION	CST	CST-K-SW	Restored	Restored	Restored
COPIER	OPTION	CST	C2-K-SW	Restored	Restored	Restored
COPIER	OPTION	CST	C3-K-SW	Restored	Restored	Restored
COPIER	OPTION	CST	C4-K-SW	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-B01	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-B02	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-B03	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-B04	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-B05	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-B06	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-B07	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-B08	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-B09	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-B10	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-B11	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-B12	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-B13	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-B14	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-B15	Restored	Restored	Restored

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
COPIER	OPTION	CUSTOM2	SP-V42	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V43	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V44	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V45	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V46	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V47	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V48	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V49	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V50	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V51	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V52	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V53	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V54	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V55	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V56	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V57	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V58	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V59	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V60	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V61	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V62	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V63	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V64	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V65	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V66	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V67	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V68	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V69	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V70	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V71	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V72	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V73	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V74	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V75	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V76	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V77	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V78	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V79	Restored	Restored	Restored
COPIER	OPTION	CUSTOM2	SP-V80	Restored	Restored	Restored
COPIER	OPTION	INT-FACE	IMG-CONT	Restored	-	-
COPIER	OPTION	INT-FACE	AP-OPT	Restored	-	-
COPIER	OPTION	INT-FACE	AP-ACCNT	Restored	-	-
COPIER	OPTION	INT-FACE	AP-CODE	Restored	-	-
COPIER	OPTION	INT-FACE	NWCT-TM	Restored	-	-
COPIER	OPTION	INT-FACE	VTRNS-TO	Restored	-	-
COPIER	OPTION	INT-FACE	ERRHNDL	Restored	Restored	-
COPIER	OPTION	PM-DLV-D	TONER-Y	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	TONER-M	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	TONER-C	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	TONER-K	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	WST-TNR	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	PT-DR-Y	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	PT-DR-M	Restored	Restored	Restored

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
COPIER	OPTION	PM-DLV-D	PT-DR-C	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	PT-DRM	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	DV-UNT-Y	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	DV-UNT-M	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	DV-UNT-C	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	DV-UNT-K	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	TR-BLT	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	TR-ROLK	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	TR-ROLC	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	2TR-ROLL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	2TR-INRL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	T-CLN-BD	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	T/S-UNIT	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	FX-UP-FR	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	FX-LW-BR	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	FX-LW-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	FX-LW-GR	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	C1-PU-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	C1-FD-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	C1-SP-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	C2-PU-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	C2-FD-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	C2-SP-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	C3-PU-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	C3-SP-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	C3-FD-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	C4-PU-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	C4-FD-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	C4-SP-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	M-PU-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	M-FD-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	M-SP-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	TN-FIL1	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	DF-PU-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	DF-FD-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	DF-SP-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	DF-PR-PD	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	HCCFD-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	HCCPU-RL	Restored	Restored	Restored
COPIER	OPTION	PM-DLV-D	HCCSP-RL	Restored	Restored	Restored
COPIER	OPTION	PM-MSG-D	TONER-Y	Restored	Restored	Restored
COPIER	OPTION	PM-MSG-D	TONER-M	Restored	Restored	Restored
COPIER	OPTION	PM-MSG-D	TONER-C	Restored	Restored	Restored
COPIER	OPTION	PM-MSG-D	TONER-K	Restored	Restored	Restored
COPIER	OPTION	PM-MSG-D	WST-TNR	Restored	Restored	Restored
COPIER	OPTION	PM-PRE-M	TONER-Y	Restored	Restored	Restored
COPIER	OPTION	PM-PRE-M	TONER-M	Restored	Restored	Restored
COPIER	OPTION	PM-PRE-M	TONER-C	Restored	Restored	Restored
COPIER	OPTION	PM-PRE-M	TONER-K	Restored	Restored	Restored
COPIER	OPTION	PM-PRE-M	WST-TNR	Restored	Restored	Restored
COPIER	OPTION	PM-U-DSP	PT-DR-Y	Restored	Restored	Restored
COPIER	OPTION	PM-U-DSP	PT-DR-M	Restored	Restored	Restored
COPIER	OPTION	PM-U-DSP	PT-DR-C	Restored	Restored	Restored

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
COPIER	OPTION	PM-U-DSP	PT-DRM	Restored	Restored	Restored
COPIER	OPTION	PM-U-DSP	FX-REP	Restored	Restored	Restored
COPIER	OPTION	USER	COPY-LIM	Restored	Restored	-
COPIER	OPTION	USER	SLEEP	Restored	Restored	Restored
COPIER	OPTION	USER	SIZE-DET	Restored	-	-
COPIER	OPTION	USER	COUNTER2	Restored	Restored	Restored
COPIER	OPTION	USER	COUNTER3	Restored	Restored	Restored
COPIER	OPTION	USER	COUNTER4	Restored	Restored	Restored
COPIER	OPTION	USER	COUNTER5	Restored	Restored	Restored
COPIER	OPTION	USER	COUNTER6	Restored	Restored	Restored
COPIER	OPTION	USER	DATE-DSP	Restored	Restored	Restored
COPIER	OPTION	USER	MB-CCV	Restored	-	-
COPIER	OPTION	USER	CONTROL	Restored	-	-
COPIER	OPTION	USER	B4-L-CNT	Restored	Restored	-
COPIER	OPTION	USER	MF-LG-ST	Restored	Restored	Restored
COPIER	OPTION	USER	CNT-DISP	Restored	Restored	Restored
COPIER	OPTION	USER	COPY-JOB	Restored	Restored	-
COPIER	OPTION	USER	OP-SZ-DT	Restored	Restored	-
COPIER	OPTION	USER	JOB-INVL	Restored	Restored	Restored
COPIER	OPTION	USER	TAB-ROT	Restored	Restored	-
COPIER	OPTION	USER	PR-PSESW	Restored	Restored	Restored
COPIER	OPTION	USER	IDPRN-SW	Restored	Restored	-
COPIER	OPTION	USER	CPRT-DSP	Restored	Restored	Restored
COPIER	OPTION	USER	PCL-COPY	Restored	Restored	Restored
COPIER	OPTION	USER	CNT-SW	Restored	Restored	Restored
COPIER	OPTION	USER	TAB-ACC	Restored	Restored	Restored
COPIER	OPTION	USER	BCNT-AST	Restored	Restored	Restored
COPIER	OPTION	USER	PRJOB-CP	Restored	Restored	Restored
COPIER	OPTION	USER	DFLT-CPY	Restored	Restored	Restored
COPIER	OPTION	USER	DFLT-BOX	Restored	Restored	Restored
COPIER	OPTION	USER	DOC-REM	Restored	Restored	Restored
COPIER	OPTION	USER	DPT-ID-7	Restored	Restored	Restored
COPIER	OPTION	USER	RUI-RJT	Restored	Restored	Restored
COPIER	OPTION	USER	SND-RATE	Restored	Restored	Restored
COPIER	OPTION	USER	FREG-SW	Restored	Restored	Restored
COPIER	OPTION	USER	IFAX-SZL	Restored	Restored	Restored
COPIER	OPTION	USER	IFAX-PGD	Restored	Restored	Restored
COPIER	OPTION	USER	MEAPSAFE	Restored	Restored	-
COPIER	OPTION	USER	TRAY-FLL	Restored	Restored	Restored
COPIER	OPTION	USER	PRNT-POS	Restored	Restored	Restored
COPIER	OPTION	USER	AFN-PSWD	Restored	Restored	Restored
COPIER	OPTION	USER	PTJAM-RC	Restored	Restored	Restored
COPIER	OPTION	USER	PDL-NCSW	Restored	Restored	-
COPIER	OPTION	USER	PS-MODE	Restored	Restored	Restored
COPIER	OPTION	USER	CNCT-RLZ	Restored	Restored	Restored
COPIER	OPTION	USER	COUNTER7	Restored	Restored	Restored
COPIER	OPTION	USER	COUNTER8	Restored	Restored	Restored
COPIER	OPTION	USER	2C-CT-SW	Restored	Restored	Restored
COPIER	OPTION	USER	LDAP-SW	Restored	Restored	Restored
COPIER	OPTION	USER	FROM-OF	Restored	Restored	Restored
COPIER	OPTION	USER	FILE-OF	Restored	Restored	Restored
COPIER	OPTION	USER	MAIL-OF	Restored	Restored	Restored
COPIER	OPTION	USER	IFAX-OF	Restored	Restored	Restored

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
COPIER	OPTION	USER	LDAP-DEF	Restored	Restored	Restored
COPIER	OPTION	USER	FREE-DSP	Restored	-	-
COPIER	OPTION	USER	TNRB-SW	Restored	Restored	Restored
COPIER	OPTION	USER	HDCR-DSW	Restored	Restored	Restored
COPIER	OPTION	USER	BWCL-DSP	Restored	Restored	Restored
COPIER	OPTION	USER	USBH-DSP	Restored	Restored	Restored
COPIER	OPTION	USER	USBM-DSP	Restored	Restored	Restored
COPIER	OPTION	USER	USBI-DSP	Restored	Restored	Restored
COPIER	OPTION	USER	CTCHKDSP	Restored	Restored	Restored
COPIER	OPTION	USER	USBR-DSP	Restored	Restored	Restored
COPIER	OPTION	USER	POL-SCAN	Restored	Restored	Restored
COPIER	OPTION	USER	JA-SBOX	Restored	Restored	Restored
COPIER	OPTION	USER	JA-DFAX	Restored	Restored	Restored
COPIER	OPTION	USER	JA-REP	Restored	Restored	Restored
COPIER	OPTION	USER	JA-FREP	Restored	Restored	Restored
COPIER	OPTION	USER	JA-BOX	Restored	Restored	Restored
COPIER	OPTION	USER	JA-FORM	Restored	Restored	Restored
COPIER	OPTION	USER	JA-PREV	Restored	Restored	Restored
COPIER	OPTION	USER	JA-PULL	Restored	Restored	Restored
COPIER	OPTION	USER	JA-PDLB	Restored	Restored	Restored
COPIER	OPTION	USER	JA-JOBK	Restored	Restored	Restored
COPIER	OPTION	USER	JA-JDF	Restored	Restored	Restored
COPIER	OPTION	USER	JA-RUI	Restored	Restored	Restored
COPIER	OPTION	USER	JA-WEB	Restored	Restored	Restored
COPIER	OPTION	USER	EXP-CRYP	Restored	Restored	Restored
COPIER	OPTION	USER	SNDSTREN	Restored	Restored	Restored
COPIER	OPTION	USER	FAXSTREN	Restored	Restored	Restored
COPIER	OPTION	USER	SJ-UNMSK	Restored	Restored	Restored
COPIER	OPTION	USER	SJ-CLMSK	Restored	Restored	Restored
COPIER	OPTION	USER	PRTDP-SW	Restored	Restored	Restored
COPIER	OPTION	USER	PDFD-MSW	Restored	Restored	Restored
COPIER	OPTION	USER	SFT-OUT	Restored	Restored	Restored
COPIER	OPTION	USER	LGCY-SCP	Restored	Restored	Restored
COPIER	OPTION	USER				-
COPIER	OPTION	USER				-
COPIER	OPTION	USER				-
COPIER	OPTION	USER				-
COPIER	OPTION	USER	FLM-DSPL	Restored	Restored	-
COPIER	OPTION	USER	CNT-PRT	Restored	Restored	Restored
COPIER	OPTION	USER	C-P-SIZE	Restored	Restored	Restored
COPIER	OPTION	USER	MF-FEED	Restored	Restored	Restored
COPIER	OPTION	USER	INSTDT-Y	Restored	-	-
COPIER	OPTION	USER	INSTDT-M	Restored	-	-
COPIER	OPTION	USER	INSTDT-D	Restored	-	-
COPIER	OPTION	USER	INSTDT-H	Restored	-	-
COPIER	OPTION	USER	INSTDT-N	Restored	-	-
COPIER	OPTION	USER	STOP-USE	Restored	Restored	Restored
COPIER	OPTION	USER	LASTREST	Restored	Restored	Restored
COPIER	OPTION	USER	SZCHKSW	Restored	Restored	Restored
COPIER	TEST	NET-CAP	CAPIF	Restored	-	-
FEEDER	ADJUST	-	DOCST	Restored	-	-
FEEDER	ADJUST	-	LA-SPEED	Restored	-	-
FEEDER	ADJUST	-	DOCST2	Restored	-	-

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
FEEDER	ADJUST	-	LA-SPD2	Restored	-	-
FEEDER	ADJUST	-	ADJMSCN1	Restored	-	-
FEEDER	ADJUST	-	ADJMSCN2	Restored	-	-
FEEDER	OPTION	-	R-ATM	Restored	Restored	-
FEEDER	OPTION	-	R-OVLPLV	Restored	Restored	-
SORTER	ADJUST	-	PNCH-Y	Restored	-	-
SORTER	ADJUST	-	STP-F1	Restored	-	-
SORTER	ADJUST	-	STP-R1	Restored	-	-
SORTER	ADJUST	-	STP-2P	Restored	-	-
SORTER	ADJUST	-	BFF-SFT	Restored	-	-
SORTER	ADJUST	-	PNCH-X	Restored	-	-
SORTER	ADJUST	-	BFF-SFT2	Restored	-	-
SORTER	ADJUST	-	SDL-STP	Restored	-	-
SORTER	ADJUST	-	SDL-FLD	Restored	-	-
SORTER	ADJUST	-	SDL-ALG	Restored	-	-
SORTER	ADJUST	-	PUNCH-SB	Restored	-	-
SORTER	ADJUST	-	ST-ALG1	Restored	-	-
SORTER	ADJUST	-	ST-ALG2	Restored	-	-
SORTER	ADJUST	-	SW-UP-RL	Restored	-	-
SORTER	ADJUST	-	INSTP-F1	Restored	-	-
SORTER	ADJUST	-	INSTP-R1	Restored	-	-
SORTER	ADJUST	-	NST-SPD	Restored	-	-
SORTER	ADJUST	-	FR-ST-PS	Restored	Restored	-
SORTER	ADJUST	-	FR-STP-X	Restored	-	-
SORTER	ADJUST	-	FR-STP-Y	Restored	-	-
SORTER	ADJUST	-	RBLT-PRS	Restored	-	-
SORTER	ADJUST	-	MSTP-2P	Restored	-	-
SORTER	ADJUST	-	INF-ALG1	Restored	-	-
SORTER	ADJUST	-	INF-ALG2	Restored	-	-
SORTER	ADJUST	-	CENT-ALG	Restored	-	-
SORTER	ADJUST	-	SDL-STP2	Restored	-	-
SORTER	ADJUST	-	SDL-FLD2	Restored	-	-
SORTER	ADJUST	-	ESC1-SPD	Restored	-	-
SORTER	ADJUST	-	SFT-SPD	Restored	-	-
SORTER	ADJUST	-	STP-SPD	Restored	-	-
SORTER	ADJUST	-	RBLT-PS2	Restored	-	-
SORTER	ADJUST	-	RBLT-PS3	Restored	-	-
SORTER	OPTION	-	MD-SPRTN	Restored	-	-
SORTER	OPTION	-	BUFF-SW	Restored	-	-
SORTER	OPTION	-	PUCH-SW	Restored	Restored	-
SORTER	OPTION	-	1SHT-SRT	Restored	Restored	-
SORTER	OPTION	-	NSRT-STC	Restored	Restored	-
SORTER	OPTION	-	MSTP-TMG	Restored	Restored	Restored
SORTER	OPTION	-	FR-ST-PO	Restored	Restored	-
SORTER	OPTION	-	MSTP-WT	Restored	Restored	-
SORTER	OPTION	-	TRY-PSTN	Restored	Restored	-
SORTER	OPTION	-	PUN-Y-SW	Restored	Restored	-
SORTER	OPTION	-	PNCH-SW2	Restored	Restored	-
SORTER	OPTION	-	PNCH-SW3	Restored	Restored	-
SORTER	OPTION	-	SFT-CHNG	Restored	Restored	-
SORTER	OPTION	-	STP-ALG	Restored	Restored	-
SORTER	OPTION	-	SDL-ALG	Restored	Restored	-
SORTER	OPTION	-	TRY-STP	Restored	Restored	-

List of Service Modes That Can Be Restored

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
SORTER	OPTION	-	TRY-LMT	Restored	Restored	-
SORTER	OPTION	-	FR-ST-SW	Restored	Restored	-
SORTER	OPTION	-	ASTG-TMG	Restored	Restored	-
SORTER	OPTION	-	TRY-UP	Restored	Restored	-