

imageCLASS MF429dw



Canon

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Introduction

Important Notices



Application

This manual has been issued by Canon Inc. for qualified persons to learn technical theory, installation, maintenance, and repair of products.

This manual covers all localities where the products are sold. For this reason, there may be information in this manual that does not apply to your locality.



Corrections

This manual may contain technical inaccuracies or typographical errors due to improvements or changes in products. When changes occur in applicable products or in the contents of this manual, Canon will release technical information as the need arises. In the event of major changes in the contents of this manual over a long or short period, Canon will issue a new edition of this manual.

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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.	1x	Remove the claw.
()	Check visually.	1x	Insert the claw.
2(6)	Check a sound.		Push the part.

Symbols	Explanation	Symbols	Explanation
1x	Disconnect the connector.		Connect the power cable.
1x	Connect the connector.		Disconnect the power cable.
1x	Remove the cable/wire from the cable guide or wire saddle.	ON	Turn on the power.
1x	Install the cable/wire to the cable guide or wire saddle.	OFF	Turn off the power.
1x	Remove the screw.	1x	Loosen the screw.
1x	Install the screw.	1x	Tighten the screw.
	Cleaning is needed.		Measurement is needed.

The following rules apply throughout this Service Manual:

- 1. 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 Safety

Since radiation emitted inside this machine is completely confined with protective housings and external covers, 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.

How to Handle the Laser Scanner Unit

This machine is classified as a Class 1 laser product.

However, the laser scanner unit contains source of Class 3B laser beam and exposure to the beam may cause eye injuries.

Therefore, be sure not to disassemble the laser scanner unit. No adjustment can be made to the laser scanner unit in the machine in the field.

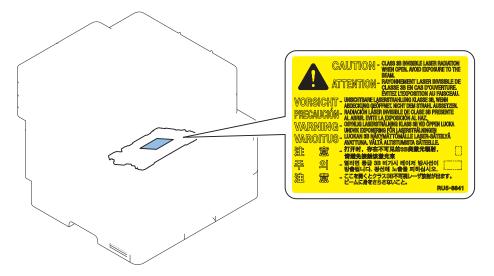
The label shown in the following figure is affixed on the laser scanner unit.

Dieses Gerät ist der Klasse 1 der Laserprodukte zugeordnet.

Allerdings enthält die Laserscannereinheit eine Laserstrahlquelle der Klasse 3B, die Augenschäden verursachen kann, wenn man in diesen Strahl blickt.

Deshalb darf die Laserscannereinheit nicht zerlegt werden. An der Laserscannereinheit kann keine Justage vor Ort vorgenommen werden.

Der in folgendem Bild dargestellte Aufkleber ist auf der Laserscannereinheit angebracht.



Power Supply

As a general rule, do not use extension cords.
 If an extension cord must be used, however, use one for local rated voltage and over, until the cord binding, and insert the power plug completely into the extension cord outlet to ensure a firm connection between the power cord and the extension cord.



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

• The socket-outlet shall be installed near the equipment and shall be easily accessible.

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 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

Notes Before it Works Serving

- · 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)

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.



Product Overview

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Product Lineup



Host Machine

MF429/428



	MF429	MF428
Print Speed	38ppm	38ppm
Сору	Yes	Yes
Print	Yes	Yes
Fax	Yes	-
Remote UI	Yes	Yes
ADF	2-sided scanning	2-sided scanning
2-sided printing	Yes	Yes
Control Panel	5 inch Touch Panel	5 inch Touch Panel
NFC	No	No
Backup of counter	Yes	Yes
MEAP	-	-
Network	Yes	Yes
Wireless LAN	Yes	Yes

PDL

	MF429/428
UFR2	Yes
PS	Yes
PCL	Yes

Option

	MF429/428
Cassette Feeding Module- AH1	yes
Copy Card Reader Attachment-J1	yes
HANDSET-J1	-
Barcode Printing Kit-E1	yes
Copy Card Reader-F1	yes
MiCARD Attachment Kit-B1	yes
Copy Control Interface Kit-C1	yes

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CAUTION:

Option settings differ depending on the region even among the same models.



Middle Class A4/LTR Color Laser MFP

1. Improved Control Panel operability

Improved operability by adopting the Large 5 inch Color Touch Panel.

2. Simultaneous duplex scanning ADF

Increased productivity in 2-sided original reading by adopting the simultaneous duplex scanning ADF (Scan, Send, Copy).

- 3. Mobile print supported
- 4. Wireless LAN supported

Printing can be performed by touching a mobile device where Canon PRINT Business is installed.

Specifications



Specifications of Host Machine

Item	Specification / Function		
Copyboard	Fixed		
Device Installation	Desktop		
Light source	LED (RGB)		
Photoreceptor	OPC drum (24 mm dia.)		
Image scanning	CIS (color)		
Light exposure method	Laser beam exposure		
Charging method	Roller charging		
Developing method	Developing method		
Transfer method	Transfer Roller method		
Separation method	Curvature separation		
Cassette paper feed	Simple separation retard		
MP Tray paper feed	Pad separation method		
Drum cleaning method	Cleaning blade		
Fixing method	On-demand fixing		
Paper delivery method	Face-down		
Toner level sensor	Mounted		
Toner type	One-component magnetic toner		
Toner supply method	All-in-one cartridge (drum + toner)		
Toner save mode	yes *1		
Document types	Sheet / book		
Maximum document size	Copyboard Glass: 216 mm x 297 mm		
	Feeder: 216 mm x 356 mm		
Document size sensor	N/A		
Image size magnification	Zoom: 25 to 400% (1% increment)		
Warm-up Time *2	14 seconds or less		
Recovery Time *3	Approx. 4 seconds or less		
Print resolution	600 x 600 dpi (MAX)		
Reading Speed	Fixed (A4/LTR):		
	• N/A		
	Continuous reading, SEND:		
	20 images / minute (A4)21 images / minute (LTR)		
Print resolution	600 x 600 dpi		
	Approx. 6.5 seconds		
First copy time	Approx. 5.5 seconds		
First print time			
Print Speed *4	At 1-sided printing: • MF421/424/426/428/429: 38 sheets/min. (A4), Approx. 40 sheets/min. (LTR)		
	MF423: 33 sheets/min. (A4), Approx. 34.5 sheets/min. (LTR)		
	At 2-sided printing:		
	 MF421/424/426/428/429: 30.3 sheets/min. (A4), Approx. 32 sheets/min. (LTR) 		
	MF423: 26.4 sheets/min. (A4), Approx. 27.6 sheets/min. (LTR)		
Available paper type for cassette	Thin paper, Recycled paper, Color paper, Plain paper, Heavy paper, Coated paper, Label		
Available paper type for Multi-purpose Tray	Thin paper, Recycled paper, Color paper, Plain paper, Heavy paper, Coated paper, Label, Envelope		
Available paper size in cassette	A4, B5, A5, LGL, LTR, STMT, EXEC, OFFICIO, B-OFFICIO, M-OFFICIO, GLTR, GLGL, FLS, AFLS, indLGL, K16, FA4, Custom paper		
Multi-purpose tray paper size	A4, B5, A5, LGL, LTR, STMT, EXEC, OFFICIO, B-OFFICIO, M-OFFICIO, GLTR, GLGL, FLS, AFLS, indLGL, K16, FA4, Envelope (COM10, Monarch, C5, DL), Custom paper		
Cassette capacity	Cassette: 250 sheets (60 to 90 g/m²)		
	Option: 550 sheets (60 to 90 g/m²)		

Item	Specification / Function		
Multi-purpose Tray capacity	100 sheets (60 to 90 g/m ²)		
Delivery tray stacking capacity *5	150 sheets (75 g/m²)		
Continuous copying	1 to 99 sheets		
Automatic 2-sided	Yes		
Memory capacity	1 GB		
Sleep mode	Yes		
Allowable environmental temperature	10 to 30 deg C		
Allowable humidity	20 to 80% in relative humidity (no condensation)		
Power rating	Rated input voltage: 120 V system: 115 V (60Hz) 200 V system: 220 to 240 V (50/60Hz)		
Maximum power consumption	120V: 1300W or lower 230V: 1300W or lower		
Average power at operation	120V:Approx. 600W 230V:Approx. 540W		
Average power at standby	Print mode: 10W		
Average power at sleep mode	Approx. 0.9W		
Power consumption at Main Power Switch OFF	0.1 W or lower		
Dimensions (W x D x H)	453×464×392mm		
Weight (Excluding toner cartridges)	Approx.16.2kg (TBD)		

- *1: Toner saving mode is a user mode setting, and it cannot be set in service mode.
- *2: The time from when the power is turned ON to when the basic screen appears. This may vary depending on the usage conditions and environment of this machine.
- *3: The time for recovery from sleep to standby
- *4: The print speed may become lower depending on the settings such as output resolution, paper type, orientation, and number of sheets printed. In the case of 2-sided printing, 1 page on the front side and 1 page on the back side are output as 1 sheet.
- *5: The actual stack capacity varies depending on the site environment and the type of paper used.



Reader Specifications

Description

Item	Specification/Function	
Photo conductor	LED	
Resolution at reading	600 dpi x 600 dpi	
Number of gradations 256 gradations		
Magnification ratio 25 to 400 % (in increments of 1 %)		
Number of lines of the Document Reading Sensor	1 line	
Original size detection	None	



ADF finished stamp function

Description

Item	Specifications
ADF original separation method	Upper separation
ADF original reading method	Stream reading only
ADF original basis weight	50 to 105 g/m ²

Item	Specifications
ADF original size	A4, B5, A5, A6, LGL, LTR, STMT
	Feed direction:128 to 355.6 mm, Reading width direction: 105.0 to 215.9 mm
ADF Original Tray stacking capacity	A4/LTR: 50 sheets (80 g/m ²)
	LGL: 30 sheets (80 g/m ²)
ADF original size recognition	None
ADF mixed paper functions	Mix of the same configuration width: Available
	Mix of the different configuration width: Not available
ADF finished stamp function	None
Maximum document size	215.9 mm x 355.6 mm
Document processing speed	At copy
	• 1-sided
	A4/LTR: 20 ipm /21 ipm (600 dpi x 600 dpi)
	• 2-sided
	A4/LTR: 34 ipm /35 ipm (600 dpi x 600 dpi)

Paper type

(Yes: Pickup possible -: Pickup not possible)

Type of paper		Paper settings in this machine	Standard Cassette/ Cassette Feeding Module-AH1 (op- tion)	Multi-purpose Tray	Auto 2-sided print- ing
Plain paper	60 to 74 g/m ²	Plain paper 1	yes	yes	yes
	75 to 89 g/m ²	Plain paper 2	yes	yes	yes
Thin paper	60 g/m ²	Thin paper 1	yes	yes	yes
	52 to 59 g/m ²	Thin paper 2	yes	yes	yes
Recycled	60 to 74 g/m ²	Recycled 1	yes	yes	yes
	75 to 89 g/m ²	Recycled 2	yes	yes	yes
Heavy paper	90 to 105 g/m ²	Heavy paper 1	yes	yes	yes
	106 to 120 g/m ²	Heavy paper 2	yes	yes	yes
	121 to 149 g/m ²	Heavy paper 3	-	yes	-
	150 to 163 g/m ²	Heavy paper 4	-	yes	-
Bond paper	60 to 74 g/m ²	Bond paper 1	yes	yes	yes
	75 to 104 g/m ²	Bond paper 2	yes	yes	yes
	105 to 120 g/m ²	Bond paper 3	yes	yes	yes
Label paper		Label paper	-	yes	-
Postcard/ Reply	/ Postcard	Postcard	-	-	-
Envelope		Envelope	-	yes	-
		Envelope H	-	yes	-

Paper size

(Yes: Pickup possible, -: Pickup not possible)

Paper size		Standard Cassette/ Cassette Feeding Mod- ule-AH1 (option)	Multi-purpose Tray	Auto 2-sided printing
A4	210.0 mm x 297.0 mm	yes	yes	yes
B5	182.0 mm x 257.0 mm	yes	yes	-
A5	148.0 mm x 210.0 mm	yes	yes	-
LGL	215.9 mm x 355.6 mm	yes	yes	yes
LTR	215.9 mm x 279.4 mm	yes	yes	yes

1. Product Overview

Pa	oer size	Standard Cassette/ Cassette Feeding Mod- ule-AH1 (option)	Multi-purpose Tray	Auto 2-sided printing
STMT	139.7 mm x 215.9 mm	yes	yes	-
EXEC	184.2 mm x 266.7 mm	yes	yes	-
OFFICIO	215.9 mm x 317.5 mm	yes	yes	yes
B-OFFICIO	216 mm x 355 mm	yes	yes	-
M-OFFICIO	216 mm x 341 mm	yes	yes	-
G-LTR	203.2 mm x 266.7 mm	yes	yes	-
G-LGL	203.2 mm x 330.2 mm	yes	yes	yes
FLSC	215.9 mm x 330.2 mm	yes	yes	-
AFLS	206 mm x 338 mm	yes	yes	-
Indian LGL	215.0 mm x 345.0 mm	yes	yes	yes
16K	195.0 mm x 270.0 mm	yes	yes	-
FA4	215.9 mm x 342.9 mm	yes	yes	yes
Envelope No.10 (COM10)	104.7 mm x 241.3 mm	-	yes	-
Envelope Monarch	98.4 mm x 190.5 mm	-	yes	-
Envelope C5	162.0 mm x 229.0 mm	-	yes	-
Envelope DL	110.0 mm x 220.0 mm	-	yes	-
Custom paper	-	yes *1	yes *2	yes *3

^{*1: 105} to 215.9 mm × 148.0 to 355.6 mm

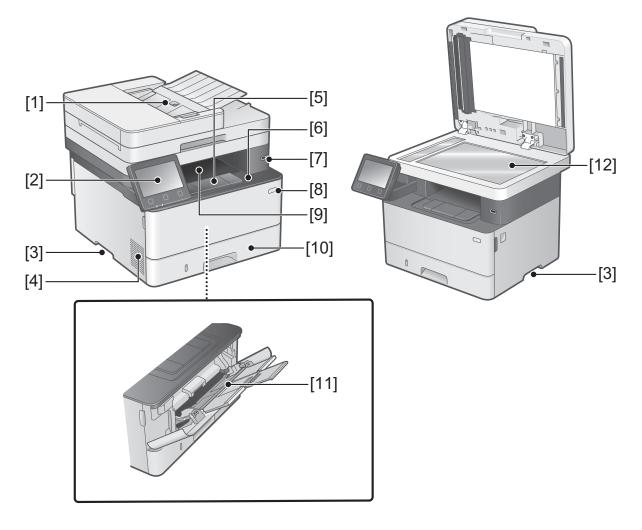
^{*2: 76.2} to 215.9 mm × 127 to 355.6 mm

^{*3: 210} to 215.9 mm × 279.4 to 355.6 mm

Parts Name

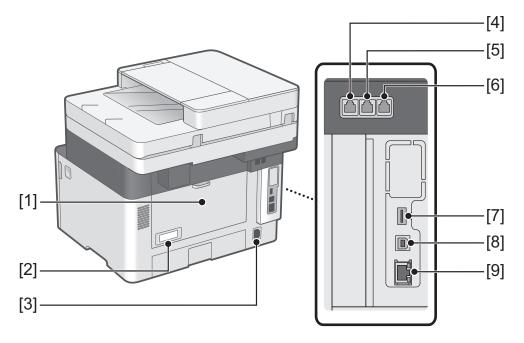
External view

■ Front side of the machine



No.	Name	No.	Name
1	Feeder	7	USB port
2	Control Panel	8	Power Switch
3	Handle for carrying	9	Delivery Tray
4	Speaker	10	Pickup Cassette
5	Delivery Stopper	11	Multi-purpose Tray
6	Cartridge Door	12	Copyboard Glass

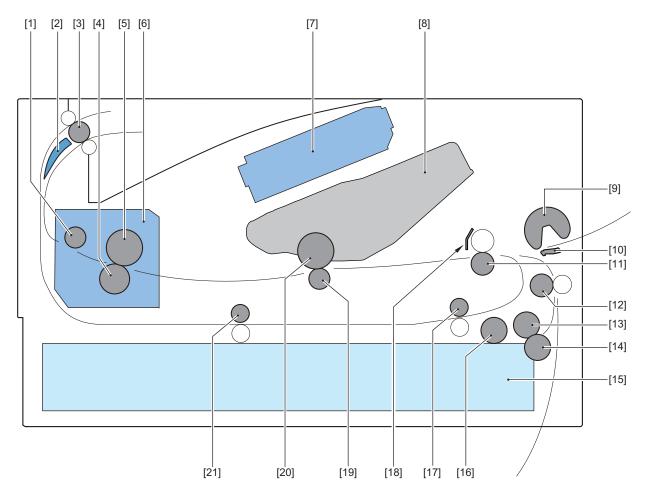
■ Rear side of the machine



No.	Name	No.	Name
[1]	Rear Cover	[6]	Terminal for Handset
[2]	Rating name plate label	[7]	USB port (for USB device)
[3]	Power Socket	[8]	USB port (for PC)
[4]	Terminal for telephone line	[9]	LAN Port
[5]	Terminal for external telephone		

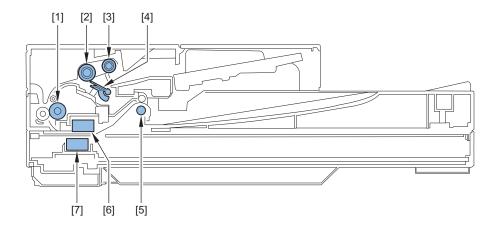
Cross Section View

■ Host Machine



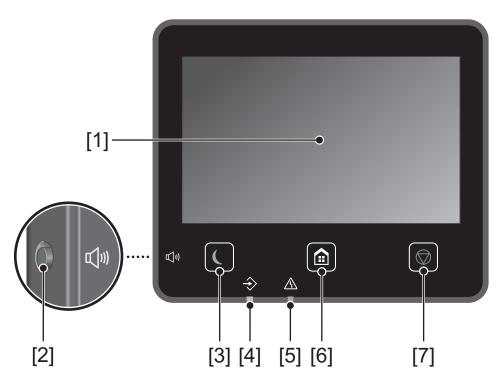
No.	Name	No.	Name
[1]	Fixing Delivery Roller	[12]	Delivery Roller
[2]	Duplex Flapper	[13]	Cassette Feed Roller
[3]	Delivery Roller	[14]	Cassette Separation Roller
[4]	Pressure Roller	[15]	Cassette
[5]	Fixing Film	[16]	Cassette Pickup Roller
[6]	Fixing Assembly	[17]	Duplex Re-pickup Roller
[7]	Laser Scanner Unit	[18]	Registration Shutter
[8]	Cartridge	[19]	Transfer Roller
[9]	MP Tray Pickup Roller	[20]	Photosensitive Drum
[10]	MP Tray Separation Pad	[21]	Duplex Feed Roller
[11]	Registration Roller		

■ ADF/Reader Unit



No.	Name	No.	Name
[1]	Feed Roller	[5]	Delivery Roller
[2]	Separation Roller	[6]	Contact Image Sensor (back side)
[3]	Pickup Roller	[7]	Contact Image Sensor (front side)
[4]	Separation Pad		

Control Panel



No.	Name	No.	Name
[1]	Display	[5]	Error Lamp
[2]	Volume key	[6]	Home key
[3]	Energy Saver key	[7]	Stop key
[4]	Data Lamp		

2

Technical Explanation (Device)

Basic Configuration	17
Original Exposure/Feed System	18
Controller System	22
Laser Exposure System	29
Image Formation System	31
Fixing System	36
Pickup Feed System	40

Basic Configuration

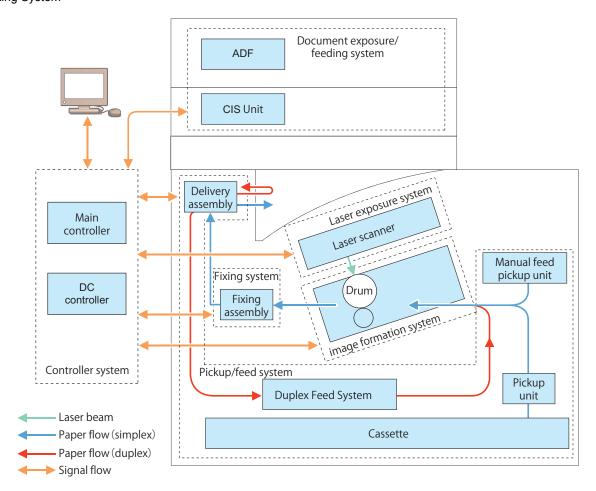


Functional Configuration

Description

This machine is roughly composed of the following six blocks.

- · Original Exposure/Feed System
- · Laser Exposure System
- · Controller System
- Image Formation System
- · Pickup Feed System
- · Fixing System



Original Exposure/Feed System



Original Exposure System

■ Functional Configuration

Description

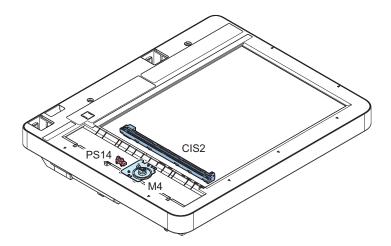
The original on the Copyboard Glass is read by moving the Contact Image Sensor (CIS) by rotating the Reader Motor based on the drive signal from the Main Controller PCB.

When using the ADF, the original is read by feeding it using the ADF, without moving the CIS.

A CIS for reading the back side of the document is built in the ADF so that both sides of the original can be simultaneously read by feeding the paper only once.

■ Major Components

Description



Symbol	Name	
M4	Reader Motor	
CIS2	Contact Image Sensor	
PS14	CIS HP Sensor	

Dust Detection Control

Overview

Presence/absence of dust on the Stream Reading Glass is detected when an original is read. In accordance with the detection result, the original reading position is changed or image correction is performed to prevent the dust from being printed on the image.

Control of dust detection consists of the following two items:

- · Dust detection correction
- Dust evasion

Execution Condition/Timing

Dust detection correction

During the period of time from the moment when the original of a stream reading job arrives just before the reading position to the moment when reading of the original is completed (for each page)

Dust evasion

When a job starts

Description

Dust detection correction

If dust on the Stream Reading Glass is detected, the image is corrected to prevent the dust from being printed.

- 1. Before the original arrives, the White Plate is read through the Stream Reading Glass, and points where dust may exist are detected.
- 2. The leading edge of the original is detected.
- 3. The detection results before and after the leading edge of the original appears on the Stream Reading Glass are compared. If dust does not exist at the dust point detected in step 1, it is judged to be dust on the White Plate and dust correction is not performed. If dust exists at the point detected in step 1, it is judged to be dust on the Stream Reading Glass and dust correction is performed.

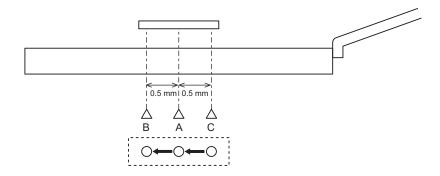
Dust evasion

If dust is detected when the last job paper is read, the reading position of the next stream reading job is changed in order to avoid the dust.

The amount of adjustment for dust evasion is -0.5 mm (B), 0 mm (A), and +0.5 mm (C).

Each time dust is detected when reading the last paper of a stream reading job, the CIS moves to the three positions in the order shown below.

A -> B -> C -> A ->



NOTE:

This control is applied only to reading of the front side where the CIS can be moved.

If any of the following conditions is detected 6 times in a row, it is judged that the Stream Reading Glass is soiled, and a message prompting the user to clean the Stream Reading Glass is displayed on the screen of the Control Panel.

- Dust of 1 pixel or larger and smaller than 5 pixels is detected at 11 points or more.
- Dust of 5 pixels or larger is detected at 1 point or more.

Service Mode

- Adjustment of the image correction level at stream reading [front]
 COPIER > OPTION > BODY > DFDST-L1
- Adjustment of the image correction level at stream reading [back]
 COPIER > OPTION > BODY > DF2DSTL1

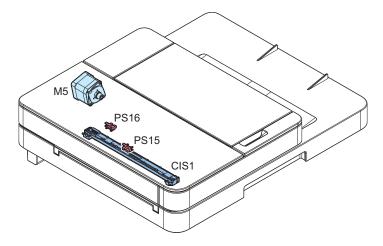
Additional Functions Mode/Menu

- ON/OFF of automatic correction at the time of dust detection
 Menu > Adjustment/Maintenance > Adjust Image Quality > Remove Streaks from Orig. Scanning Area
- ON/OFF of notification to clean the Stream Reading Glass
 Menu > Preferences > Display Settings > Notify to Clean Original Scanning Area



■ Major Components

Description

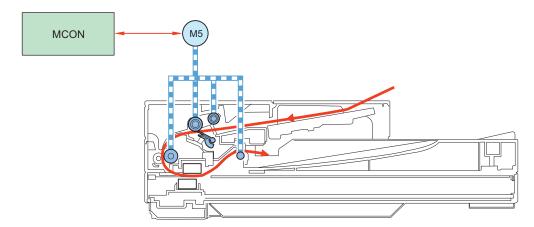


Symbol	Name	
M5	ADF Motor	
CIS1	Contact Image Sensor	
PS16	Document Sensor	
PS15	Document End Sensor	

■ Drive Configuration

Description

When copy, fax, or scan is started, the ADF Motor (M5) is driven by a drive command from the Main Controller PCB. The document which is placed face-up on the Original Tray is picked up and fed one sheet at a time in order from the top. When the fed original passes over the Platen Glass, the image is read by the Contact Image Sensor (CIS), and then the original is delivered face-down to the Document Delivery Assembly.



Symbol Name		
M5	ADF Motor	
MCON	Main Controller PCB	

■ Original Detection

Overview

This machine has the following two types of original detection functions.

- · Original Detection
- · Original Edge Detection

NOTE:

This machine does not have a document size (original width) detection function.

Description

Original Detection

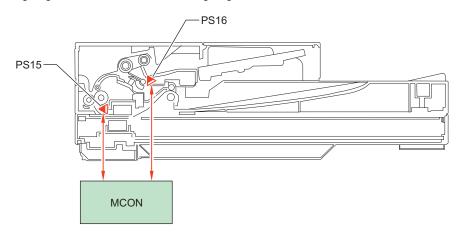
As the actuator is pushed up by placing an original on the Original Tray, the Document Sensor (PS16) is turned ON (light is transmitted -> light is blocked) so that the presence of an original is detected.

Original Edge Detection

As the actuator is pushed up by the leading edge of the fed original, the Document End Sensor (PS15) is turned ON (light is blocked -> light is transmitted) so that the leading edge of the original is detected.

In addition, when the trailing edge of the original passes the position of the actuator, the actuator returns to the original position, which causes the Document End Sensor (PS15) to turn OFF (light is transmitted -> light is blocked) to detect the trailing edge of the original.

Note that the original length that can be read by this machine is 400 mm and less; if an original longer than that is fed, it is stopped due to jam. The original size is determined by the time required from when the Document End Sensor (PS15) detects the original's leading edge to when it detects its trailing edge.



Symbol	Name	
PS16	Document Sensor	
PS15	Document End Sensor	

Jam Detection

Execution Condition/Timing

When the power is turned ON or when the original is being read

Description

In the following cases, it is judged that an ADF jam has occurred.

- · When the original is late in arriving the Document End Sensor (SR1) or remains in the ADF while the original is being read
- When the Document End Sensor (SR1) detects presence of paper when the power is turned ON (residual paper jam)
- · When a document of 400 mm or more is detected

When a jam is detected, the reading operation stops and "Paper is jammed." is displayed on the screen of the Control Panel. The jam can be cleared by removing the jammed paper, closing the ADF Upper Cover, and placing the original again.

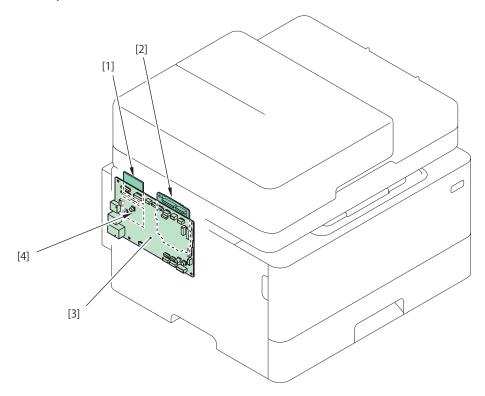
Controller System



Functional Configuration

Description

This machine is controlled by the Main Controller PCB and the DC Controller PCB.



No.	Parts name	Role
[1]	Serial Number PCB	-
[2]	DC Controller PCB	Printer control, laser control, high voltage control, various I/O control, and retaining setting values
[3]	Main Controller PCB	System control, image processing control, Reader/ADF control, FAX control, network control, and retaining various setting values
[4]	Memory PCB	-



Main Controller PCB

Overview

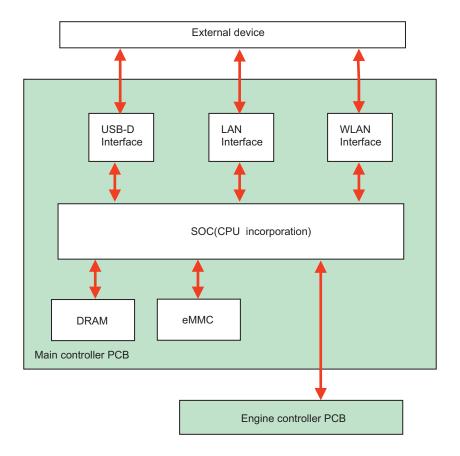
The Main Controller receives print information from the external equipment (computer, etc.) via the interface cable.

There are 2 types of print information: CPCA command data to exchange the status or unique information of a printer and dot

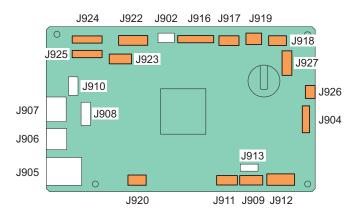
After dot data is sent to the Main Controller, video data is generated and is sent to the Engine Controller.

CPCA command data is the data sent to see the printer status from the external equipment via the interface cable.

When the machine receives the data, the Main Controller communicates with the Engine Controller and then returns the printer status to the external equipment.



Description



No.	Roles and Specifications	No.	Roles and Specifications
J904	For the Wireless LAN PCB	J920	For the DC Controller PCB
J909	For the Serial Number PCB	J922	For the ADF Motor
J911	For the Memory PCB	J923	For the Reader Motor
J912	For the Low Voltage Power Supply Unit	J924	For the Reader CIS
J916	For Fax	J925	For the ADF CIS
J917	For the Off Hook PCB	J926	For the 5-inch Touch Panel
J918	For the USB PCB	J927	For the 5-inch Touch Panel
J919	For speaker		

CAUTION:

In order to cover all models, the maximum number of connectors are shown.

Error Code

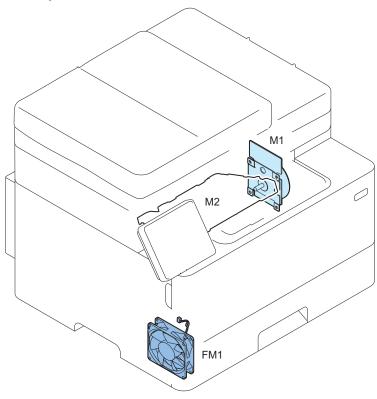


Motor Control

Overview

This machine uses motors for paper feed and image formation.

Description



CAUTION:

Although illustration of a MFP model is used, motor positions are common to SFP model.

Sym- bol	Name	Drive parts	Failure Detection
M1		Photosensitive Drum, Transfer Roller, Pressure Roller, Fixing Film, Delivery Roller, Duplex Flapper, Duplex Feed Roller, Cassette Pickup Roller, Cassette Feed Roller, Feed Roller, Registration Roller, Multi-purpose Tray Pickup Roller	
M2	Scanner Motor	Scanner Mirror	Yes



Fan Control

Overview

This machine uses a fan for preventing temperature rising inside the machine and for cooling the delivered paper.

Description

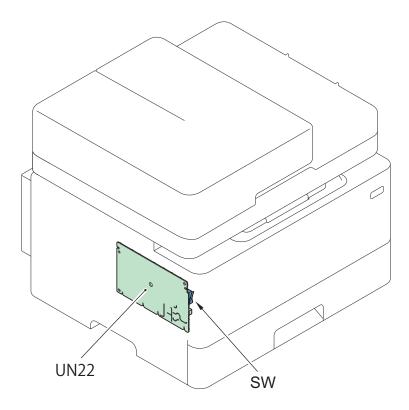
Symbo	l Name	Cooling area	Туре	Speed
FM1	Main Fan	Around the cartridge and low voltage power	Suction	Full speed
		supply		



Overview

This machine uses the Interlock Switch of the High Voltage Power Supply PCB (UN21) to detect whether the Cartridge Door is opened or closed.

Description



Symbol	Name	Role	Remarks	
(UN21)	•	_	When the switch has failed, the PCB needs to be re-	
		Door is opened or closed.	placed.	

When door open is detected by this switch, the DC Controller stops drive of the motors and the solenoids.



Low Voltage Power Supply Control

Overview

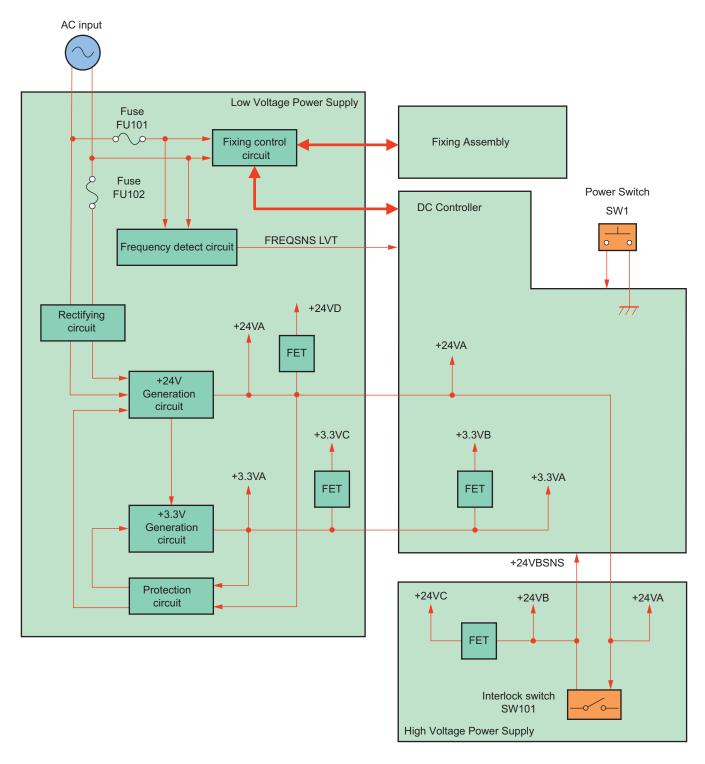
This circuit converts the AC voltage to DC power supply and provides it to each load.

Description

The following shows a block diagram of the low voltage power supply.

• Low voltage power supply: Generates the DC power supply needed inside the printer. It also controls the temperature of the Fixing Heater of the Fixing Assembly.

The low voltage power supply starts to operate when the AC power supply is connected to the inlet. The AC power supply is converted to +24 V, which is the DC power supply required by the printer, and +3.3 V.





Overview

This machine has a protection function against overcurrent and overvoltage.

Description

If overcurrent or abnormal voltage occurs due to a trouble, the DC voltage is automatically cut off to prevent damage to the Power Supply PCBs.

The Low Voltage Power Supply has a protection function to prevent damage to the Power Supply PCB caused by overcurrent and overvoltage.

When no DC voltage is output from the Low Voltage Power Supply Assembly, it is possible that the protection function has been activated. Therefore, turn OFF the Power Switch, disconnect the AC Power Supply Cord from the inlet, and then fix the trouble before turning ON the Power Switch again.

The machine has 2 power supply fuses (FU101 and FU102) inside the PCB as an additional protection function. If overcurrent occurs in the AC line, the power supply fuse blows and cuts off the power supply.

NOTE:

This machine has a function that stops supplying the +24VB and +24VC when the Cartridge Door Switch is turned OFF for the safety of users and service technicians.

As the power of this machine is turned ON/OFF by the remote switch control circuit, power is supplied to the AC line even when the Power Switch is turned OFF. Never disassemble the machine while the Power Supply Cord is connected to the inlet.

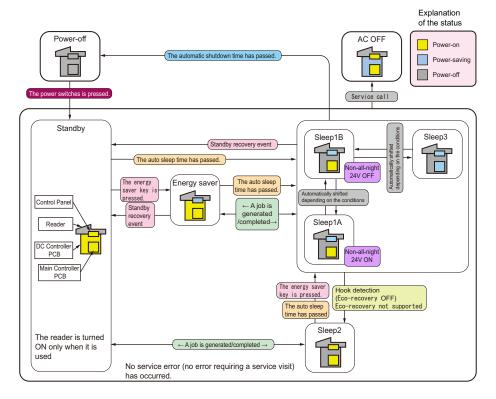


Power-saving Mode

Overview

Power-saving mode is a function that reduces the printer power consumption.

Description



	State	Description
Standby	The machine moves to a standby state by turning ON the main switch.	When introduction of jobs become possible, timers of the auto low power time and auto sleep time start counting.
Energy Saver	In a standby state, the machine moves to an energy saver state by pressing the Energy Saver key.	The Control Panel LCD, Function LED, Start Key LED and Paper Source LED are turned OFF. Moreover, the LED of energy saver is turned ON.
Sleep 1A	The machine is in a state where the 24V non-all-night power is ON.	When the auto sleep time has elapsed, transition to sleep 1A occurs.
Sleep 1B	The machine is in a state where the 24V non-all-night power is OFF.	Sleep 1B is a state where CPU moves to an operation state from sleep 3 by a hardware interruption.
Sleep 2	When change in on-hook/off-hook state is detected while the machine is in sleep 1A, sleep 1B, or sleep 3, it moves to sleep 2.	The Control Panel LCD display is turned ON, and the machine accepts key operations. When the auto sleep time has elapsed, the machine moves back to sleep 1.
Sleep 3	The controller itself gets into a power-saving mode.	In this mode, CPU of the controller has stopped. (The most effective power saving state)
Service er- ror	When an error requiring a service visit occurs, the machine moves to this state.	Power state of the printer remains in power-saving mode so that the machine can respond to request from service mode.

2. Technical Explanation (Device)

Sleep	It is a function that saves power consumption and improves noise reduc
Mode Eco	tion by letting the machine gets into a standby state without turning ON
Exit	the engine and reader when recovering from sleep.

Laser Exposure System



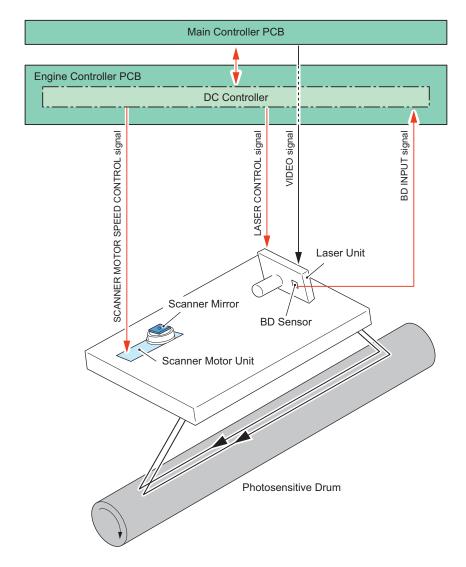
Functional Configuration

Overview

The laser exposure system forms a static latent image on the Photosensitive Drum by laser exposure.

Description

The Laser Scanner Unit consists of the Laser Unit and the Scanner Motor Unit, and is controlled by the signal input from the DC Controller.



Shutter Control

The Laser Scanner Unit of this machine has the laser shutter mechanism.

The Laser Shutter blocks laser path of the Laser Scanner Unit when the Cartridge Door is opened for the safety of users and service technicians.



Failure Detection

Overview

The DC Controller detects the following failures in the Laser Scanner Unit.

- · Scanner area failure
- Scanner Motor failure

Description

Scanner area failure detection

If an error in any of the Scanner Motor, Laser Unit, or BD detection in the scanner area is detected, an error code is notified.

Scanner Motor failure detection

- When the BD cycle is out of the specified range, an error code is notified.
- If a motor error is detected while the Scanner Motor is being driven, an error code is notified.

Error Code

E100: Scanner area failure
• E100-0000: BD error
E110: Scanner Motor failure

• E110-0000: Scanner Motor startup error

• E110-0001: Scanner Motor rotation error

Image Formation System



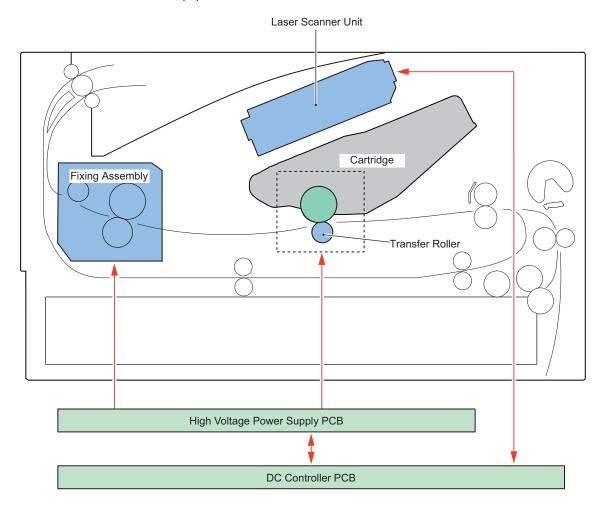
Functional Configuration

Overview

The image formation system forms a toner image on the paper.

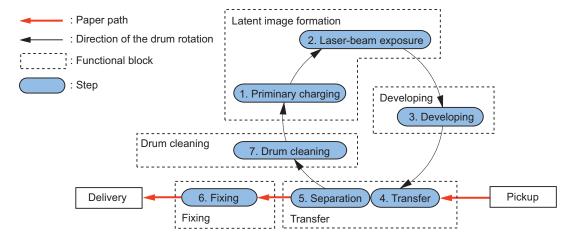
Description

The DC Controller controls the Laser Scanner Unit and High Voltage Power Supply to form the toner image on the Photosensitive Drum, and transfers and fixes this to the paper.





Description



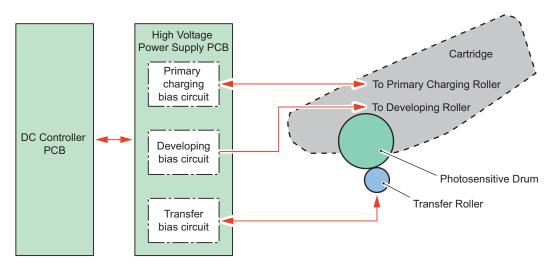
High Voltage Power Supply Control

Description

The High Voltage Power Supply applies high voltage biases to the following:

- Primary Charging Roller (inside the cartridge)
- · Developing Roller (inside the cartridge)
- · Transfer Roller

The high voltage biases are generated by the DC Controller controlling the High Voltage Power Supply.





Overview

Overview

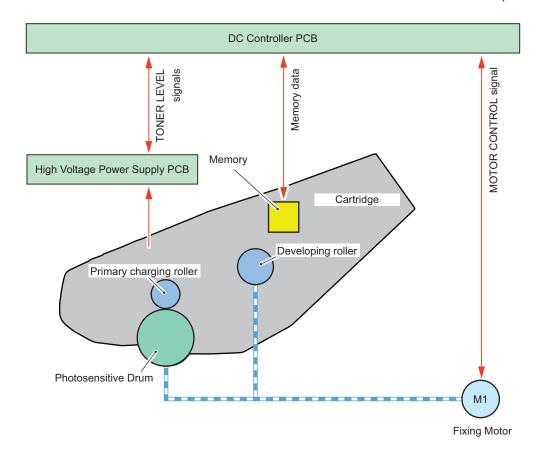
The cartridge has the function to form a visible image on the Photosensitive Drum with toner.

Description

The cartridge consists of the Photosensitive Drum, Developing Assembly, Primary Charging Roller, Memory, etc.

The DC Controller drives the Fixing Motor to rotate the Photosensitive Drum and Developing Roller. The Primary Charging Roller is driven and rotated by the Photosensitive Drum.

The DC Controller detects the toner level by monitoring the toner level detection signal.



■ Cartridge State Detection

Execution Condition/Timing

- · At power-on
- · When the Cartridge Door is closed
- · At recovery from sleep mode
- · When a job is completed and no jobs remain in the machine

NOTE:

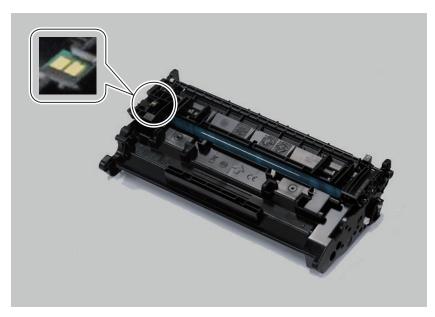
Since a validity period of authentication has been set to reduce the number of authentication, authentication processing is not performed when the conditions are satisfied.

Description

The DC Controller detects/records the cartridge usage, etc. by reading/writing data stored in the memory. When the memory cannot be detected or a non-genuine part is detected, it notifies the Main Controller and a message is displayed on the display.

Display:

Cartridge communication error| A counterfeit or non-Canon cartridge may be in use.



Memory Position

■ Cartridge Detection

Execution Condition/Timing

- · At power-on
- · When the Cartridge Door is closed

Description

The DC Controller detects whether a cartridge is installed according to the presence/absence of memory and the detected toner level

If a cartridge is detected as absent, it is notified the Main Controller and a message is displayed on the display.

Display:

Toner Cartridge Not Inserted

■ Cartridge Life Detection

Execution Condition/Timing

- · At power-on
- When the engine operation is completed after the Cartridge Door is closed
- · At completion of printing
- When the reference value of cartridge life is changed

Description

The DC Controller notifies the Main Controller when cartridge consumption reaches the specified value.

Upon receipt of the notification, the Main Controller displays a warning or a message that the cartridge has reached the end of its life on the display.

Warning display*2		End of life display*4, *5
Toner level*1	Differs depending on the setting*3	0%
Detected to (location)	Memory	Memory
Message (machine operation)	Prepare the toner cartridge.	End of Cartridge Lifetime

^{*1:} The remaining toner level can be checked on the Status Monitor.

Refer to "Checking remaining toner level" in "Settings/Registration Mode/Menu" shown below.

Refer to "Setting of whether to display or hide warnings" in "Settings/Registration Mode/Menu" shown below.

*3: The threshold value to display a warning can be specified in the menu.

Refer to "ON/OFF of display of the screen for setting the threshold value for preparation of the cartridge" in "Service Mode" shown below.

^{*2:} Whether to display or hide warnings can be specified in the menu.

Refer to "Setting of the threshold value to display a warning" in "Settings/Registration Mode/Menu" shown below.

*4: The operation when the cartridge has reached the end of life can be specified in service mode.

Refer to "Setting of the behavior when the cartridge reaches the end of its estimated life" in "Service Mode" shown below.

*5: The reference value of cartridge life (Photosensitive Drum, Developing Assembly, and Waste Toner) can be specified in service mode.

Refer to "Setting of the reference values for replacement of the Photosensitive Drum, Developing Assembly, and Waste Toner (Bk)" in "Service Mode" shown below.

Service Mode

- Setting of the behavior when the cartridge reaches the end of its estimated life:
 COPIER > OPTION > FNC-SW > CRG-PROC
- Setting of the reference values for replacement of the Photosensitive Drum, Developing Assembly, and Waste Toner (Bk):
 COPIER > OPTION > FNC-SW > CRGLF-K
- ON/OFF of display of the screen for setting the threshold value for preparation of the cartridge: COPIER > OPTION > DSPLY-SW > CRGLW-LV

Additional Functions Mode/Menu

- Checking remaining toner level
 Status Monitor > Device Information > Cartridge Information
- Setting of whether to display or hide warnings:
 Menu > Preferences > Display Settings > Displ. Timing for Cartridge Prep. Notif.
- Setting of the threshold value to display a warning:
 Menu > Preferences > Display Settings > Displ. Timing for Cartridge Prep. Notif. > Custom

Developing Roller Engagement/Disengagement Control

Description

This machine does not control the Developing Roller inside the Toner Cartridge to be engaged/disengaged with the Photosensitive Drum according to the machine state.

Fixing System



Functional Configuration

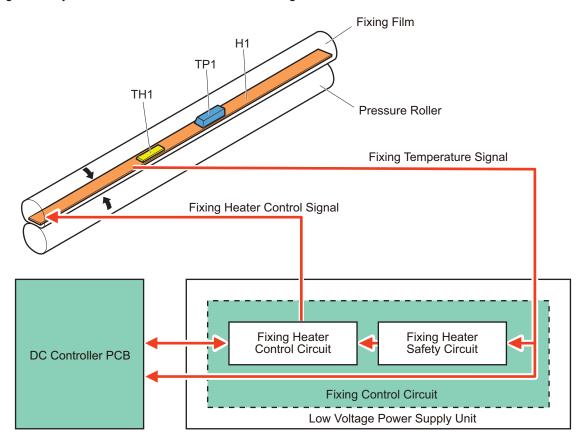
Overview

The fixing system forms a permanent image by melting the toner on the paper using pressure and heat.

Description

The fixing control circuit controls the temperature of the Fixing Assembly.

The Fixing Assembly of this machine uses the on-demand fixing method.



Symbol	Parts name
H1	Fixing Heater
TH1	Thermistor
TP1	Thermo Switch



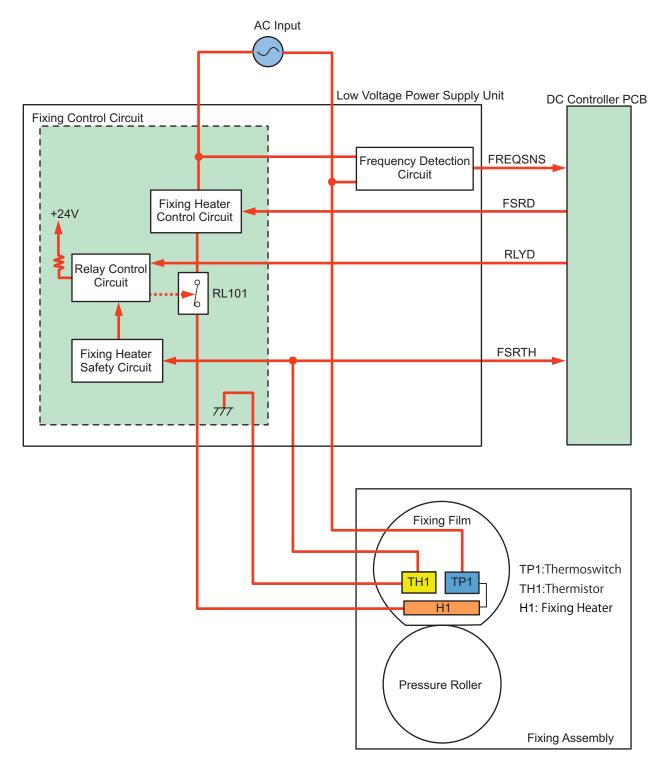
Fixing Temperature Control

Overview

Temperature control of the Fixing Assembly is performed by the Fixing Heater control circuit and Fixing Heater safety circuit according to the command of the DC Controller.

Description

The DC Controller PCB monitors the fixing temperature detection signal and outputs a fixing control signal according to the detected temperature. The fixing control circuit controls the Fixing Heater on the basis of this signal, and controls the temperature of the Fixing Heater to the target value.



Protection Function

Overview

This machine has a function to detect abnormal temperature rising in the Fixing Assembly and cut off the power supply to the Fixing Heater.

Description

This machine has the following four protection functions to prevent abnormal temperature rising in the Fixing Heater.

- DC Controller PCB
- · Fixing Heater safety circuit
- · Thermo Switch
- · Down sequence control

The details are explained below.

DC Controller PCB

The DC Controller PCB monitors the thermistor temperature of the Fixing Heater (Center).

When it exceeds the specified temperature, it is judged that the temperature of the Fixing Assembly is abnormally high, and the fixing control signal (FSRD) output is stopped, the relay is turned OFF, and the power supply to the heater is turned OFF.

Fixing Heater safety circuit

The Fixing Heater safety circuit monitors the thermistor temperature of the Fixing Heater (Center).

When it exceeds the specified temperature, it is judged that the temperature of the Fixing Assembly is abnormally high, and the relay is turned OFF and the power supply to the heater is turned OFF.

Thermo Switch

If the temperature of the Fixing Heater rises abnormally and it exceeds the specified temperature, contact point of the Thermo Switch is opened and the power supply to the heater is turned OFF.

Down sequence control

During continuous printing, the throughput is changed to reduce heat buildup on parts not in contact with paper, to improve Fixing characteristics and reduce curling.

38 sheets of models Throughput Reduction Control

Mode	Paper type	Paper size	Cassette (sheet/min)	Multi-purpose Tray (sheet/min)	Remarks
1-sided	Plain pa-	A4	38.0	35.2	
	per, Thin paper	B5	40.0 -> 14.0	37.0 -> 14.0	
		A5	40.0 -> 14.0	37.0 -> 14.0	
		A5R	63.1	58.5	
		A6	40.0 -> 14.0	37.0 -> 14.0	
		LTR	40.0	37.0	
		LGL	32.4	30.4	
		EXE	40.0 -> 14.0	37.0 -> 14.0	
	Heavy pa-	A4	19.0	17.6	
	per 1	B5	17.0 -> 6.0	17.0 -> 6.0	Minimum in four phases
		A5	17.0 -> 6.0	17.0 -> 6.0	Minimum in four phases
		A5R	31.9	29.2	
		A6	22.0 -> 7.0	22.0 -> 7.0	Minimum in four phases
		LTR	20.0	18.5	
		LGL	16.2	15.2	
		EVE	17.0 -> 6.0	17.0 -> 6.0	Minimum in four phases
	Heavy paper 2	A4	-	17.6	
		B5	-	12.0 -> 4.0	Minimum in four phases
		A5	-	12.0 -> 4.0	Minimum in four phases
		A5R	-	18.5	
		A6	-	12.0 -> 4.0	Minimum in four phases
		LTR	-	18.5	
		LGL	-	15.2	
		EXE	-	12.0 -> 4.0	Minimum in four phases
	Envelope	(Nagaga- ta 3)	-	17.0 -> 6.0	Minimum in four phases
2-sided	Plain pa-	A4	30.3	28.1	
	per, Thin	LTR	32.0	29.6	
	paper	LGL	15.9	15.9	
	Heavy pa-	A4	15.1	14.0	
	per 1	LTR	16.0	14.8	

Mode	Paper type	Paper size	Cassette (sheet/min)	Multi-purpose Tray (sheet/min)	Remarks
2-sided	Heavy pa- per 1	LGL	8.3	8.3	
	Heavy pa-	A4	-	14.0	
	per 2	LTR	-	14.8	
		LGL	-	8.3	



Fixing Assembly Failure Detection

Overview

When the machine is under the following conditions, the DC Controller shuts down the power supply to the Fixing Assembly and notifies an error.

- · Startup failure
- · Abnormal high temperature failure
- · Abnormal low temperature failure
- · Fixing control circuit failure

Description

Fixing Assembly startup failure

An error code is notified if the Fixing Assembly does not reach a certain temperature within a specified period of time.

Abnormal high temperature failure

An error code is notified if an abnormally high temperature is detected in the Fixing Assembly.

Abnormal low temperature failure

An error code is notified if an abnormally low temperature is detected in the Fixing Assembly.

Fixing control circuit failure

An error code is notified if a zero cross signal is not detected for the specified period of time or more.

Error Code

- E000-0000: Fixing Assembly startup failure
- E001-0000: Abnormal high temperature of Fixing Assembly
- E003-0000: Abnormal low temperature of Fixing Assembly
- E004-0000: Fixing control circuit failure

Pickup Feed System



Overview

Overview

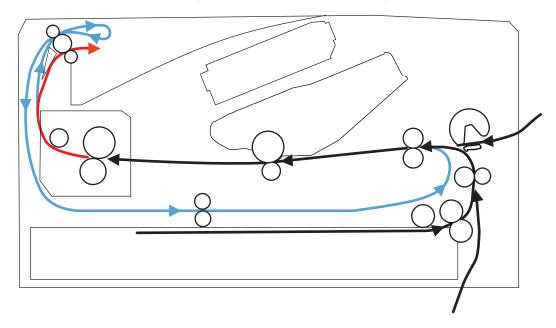
The pickup, feed, and delivery systems are controlled by the DC Controller.

The DC Controller controls the blocks in the pickup, feed, and delivery systems to pickup, feed, and deliver paper inside the machine.

Description

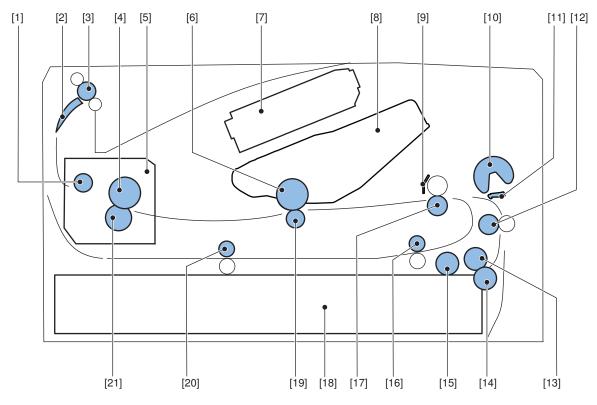
The pickup, feed, and delivery systems consist of the following three blocks.

- Pickup/Feed: From each pickup slot to the inlet of the Fixing Assembly (Black arrow)
- Fixing/Delivery: From the Fixing Assembly to the delivery outlet (Red arrow)
- Duplex: From the Duplex Reverse Assembly to the Duplex Re-pickup Assembly (Blue arrow)



Parts Configuration

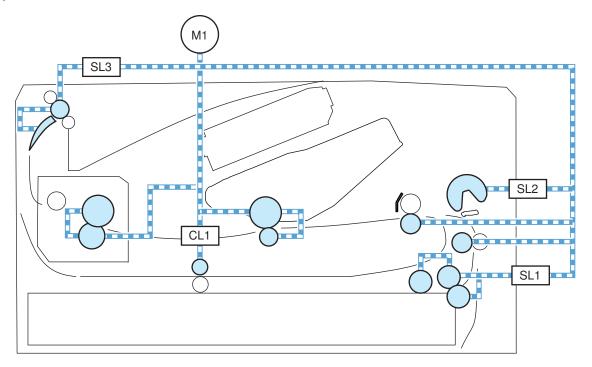
Description



No.	Name	No.	Name
[1]	Fixing Delivery Roller	[12]	Feed Roller
[2]	Duplex Flapper	[13]	Cassette Feed Roller
[3]	Delivery Roller	[14]	Cassette Separation Roller
[4]	Fixing Film	[15]	Cassette Pickup Roller
[5]	Fixing Assembly	[16]	Duplex Re-pickup Roller
[6]	Photosensitive Drum	[17]	Registration Roller
[7]	Laser Scanner Unit	[18]	Cassette
[8]	Cartridge	[19]	Transfer Roller
[9]	Registration Shutter	[20]	Duplex Feed Roller
[10]	MP Tray Pickup Roller	[21]	Pressure Roller
[11]	MP Tray Separation Pad		

Drive Configuration

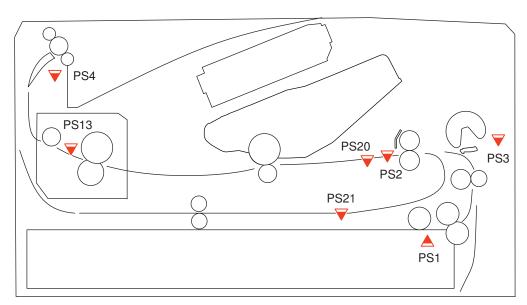
Description



Sym- bol	Name	Sym- bol	Name
M1	Fixing Motor	SL3	Duplex Reverse Solenoid
SL1	Cassette Pickup Solenoid	CL1	Duplex Re-pickup Clutch
SL2	MP Tray Pickup Solenoid		

Layout of Sensors

Description



Symbol	Name	Remarks	Symbol	Name	Remarks
PS1	Cassette Paper Sensor	UN5	PS13	Fixing Delivery Sensor	UN28
PS2	TOP Sensor	UN7	PS14	CIS HP Sensor	
PS3	MP Tray Paper Sensor	UN4	PS20	Paper Width Sensor	UN6

Symbol	Name	Remarks	Symbol	Name	Remarks
PS4	Delivery Tray Full Sensor	UN10	PS21	Duplex Feed Sensor	UN6



Cassette Detection

Description

Presence of the cassette is detected using the Cassette Paper Sensor (PS1).



Cassette Pickup Control

Description

The DC Controller rotates the Pickup Roller by rotating the Fixing Motor (M1).

The Pickup Arm is lifted and lowered to feed the paper by rotating the Pickup Cam with the Cassette Pickup Solenoid (SL1).

Double Feed Prevention Mechanism

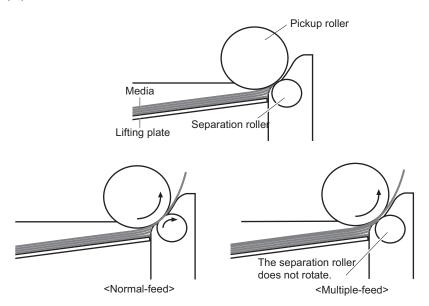
This machine employs the Separation Roller method for double feed prevention.

The Separation Roller method of this machine is a method that prevents paper double feeds by using the Separation Roller without drive.

The Separation Roller is driven and rotated by the Pickup Roller.

- · At normal time
 - The Separation Roller is driven by the Pickup Roller drive via paper. This causes the Separation Roller to rotate in the feed direction.
- · During Double Feed

Since the friction force between sheets of paper becomes weaker when there are multiple sheets of paper, the Pickup Roller drive force transmitted to the Separation Roller becomes extremely weak. Since force suppressing rotation is applied to the Separation Roller of this machine, this mechanism does not allow rotation by the weak drive force transmitted from the Pickup Roller during double feed. The Separation Rollers therefore do not rotate and do not pickup double feed paper.





Multi-purpose Tray Pickup Control

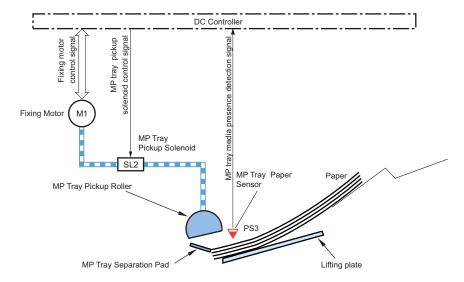
Description

The Multi-purpose Tray pickup feeds paper from the Multi-purpose Tray one sheet at a time into the machine.

The following describes the operation of the Multi-purpose Tray pickup.

- 1. When a print command is input from the Main Controller, the DC Controller rotates the Fixing Motor (M1).
- 2. When the DC Controller turns ON the MP Tray Pickup Solenoid (SL2), the Multi-purpose Tray Pickup Roller rotates and paper is picked up.

3. After double feed paper is removed by the Multi-purpose Tray Separation Pad, paper is fed into the machine. Note that the presence of paper on the MP Tray is detected by the MP Tray Paper Sensor (PS3), and printing is not performed if there is no paper.



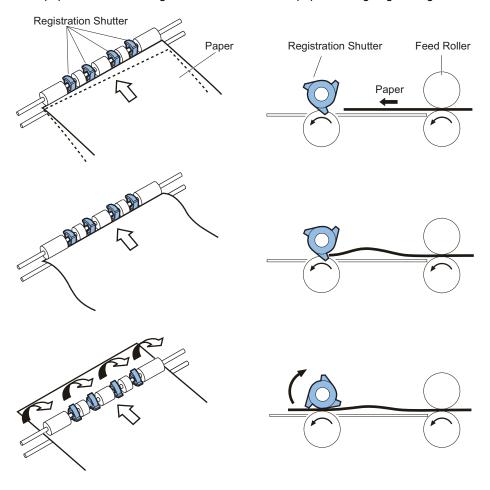


Description

This machine can correct paper skew without lowering throughput.

Skew is corrected as follows.

- 1. The paper leading edge pushes against the Registration Shutter to align the leading edge of the paper.
- 2. The trailing edge of the paper is fed and slack is generated at the leading edge of the paper.
- 3. When the trailing edge is fed even further, the paper leading edge for which slack was generated pushes up the Registration Shutter and then the paper is fed to the Registration Roller while the paper leading edge is aligned.

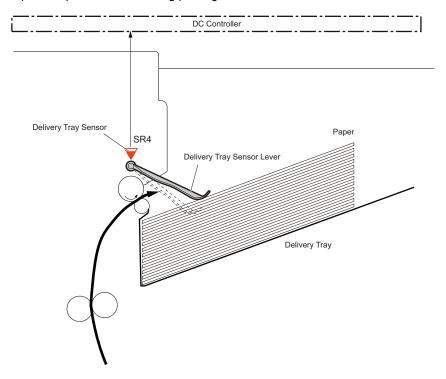




Description

The DC Controller detects paper full in the Output Tray using the Delivery Tray Full Sensor (PS4).

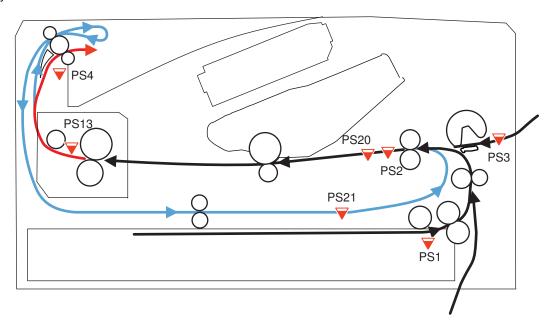
The DC Controller judges that the Output Tray is full and notifies the Main Controller when the Delivery Tray Full Sensor detects paper for more than the specified period of time during printing.





Description

The sensors are provided at the locations shown below to detect the presence of print paper and whether the print paper is being fed correctly.



This machine uses the following sensors and switches to detect the presence of print paper and whether the print paper is being fed correctly.

- TOP Sensor (PS2)
- · Paper Width Sensor (PS20)

- Fixing Delivery Sensor (PS13)
- Duplex Feed Sensor (PS21)
- Delivery Tray Full Sensor (PS4)

Jam name	Details			
Pickup delay jam	When the TOP Sensor (PS2) fails to detect the leading edge of paper within a specified period of time after the start of pickup from a cassette, pickup retry is performed twice. After that, if the TOP Sensor (PS2) fails to detect the leading edge of paper within a specified period of time again, it is judged as a pickup delay jam.			
Pickup stationary jam	When the TOP Sensor (PS2) fails to detect the trailing edge of paper although a specified period of time has passed after it detects the leading edge of paper, it is judged as a pickup stationary jam.			
Fixing delivery delay jam	When the Fixing Delivery Sensor (PS13) fails to detect the leading edge of paper although a specified period of time has passed after the TOP Sensor (PS2) detects the leading edge of paper, it is judged as a fixing delivery delay jam.			
Fixing delivery stationary jam	When the Fixing Delivery Sensor (PS13) never detects absence of paper within a specified period of time after the TOP Sensor (PS2) detects the trailing edge of paper, it is judged as a fixing delivery stationary jam.			
Internal stationary jam	When any of the TOP Sensor (PS2), Paper Width Sensor (PS20), Fixing Delivery Sensor (PS13) or Deliver Tray Full Sensor (PS4) detects presence of paper at the start of initial rotation, it is judged as an internal stionary jam.			
Internal stationary jam 2	When residual paper is detected during printing, it is judged as an internal stationary jam 2.			
Door Open Jam	When door open is detected during paper feed, it is judged as a door open jam.			
Fixing paper wrapping jam	When the Fixing Delivery Sensor (PS13) detects absence of paper within a specified period of time from detection of the trailing edge of paper by the TOP Sensor (PS2) after the Fixing Delivery Sensor (PS13) detects the leading edge of paper, it is judged as a fixing paper wrapping jam.			
Duplex Re-pickup Assembly jam	When the Duplex Feed Sensor (PS21) fails to detect paper although a specified period of time has passed after the start of duplex reversing, it is judged as a Duplex Re-pickup Assembly jam.			



Technical Explanation (System)

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Security Functions	

Overview of System Management

This chapter describes information for service technicians on the system of this machine.

Although this chapter contains some information described in the User's Guide, for details on the functions for users, refer to the e-Manual.

Version Upgrade



Function Overview

The following firmware upgrade methods are available with this device.

Version upgrade using User Support Tool (UST).

Upgrade the firmware of the device using UST

Open the file for UST version upgrade on a PC connected with the device and upgrade the firmware.

Since the host machine and the PC are connected using a USB cable, version upgrades can be performed in an environment where a network is not available.

Version upgrade via Internet

Access the dedicated server, and download and upgrade the firmware.

Provided that Internet connection is available, the system automatically configures the connection destination setting and executes processing such as download and version upgrade.

Version upgrade using a USB flash drive (released only in special cases)

Upgrade the firmware of this machine using a USB flash drive.

Connect a USB flash drive where the firmware is stored to the device, and update the firmware in service mode.

Version upgrades can be performed in an environment where a PC or network is not available.

NOTE:

Firmware that can be used for version upgrade using a USB flash drive is released only in special cases such as a tender business, and is not normally released. As for the detailed version upgrade procedure, follow the instructions given at the time of release of the customized firmware for version upgrade using a USB flash drive.

Version upgrade by replacing the PCB

Version upgrade by replacing the existing PCB with a PCB where the latest firmware is installed

Version upgrade using Local CDS

Use iW EMC/iW MC and DFU plug-in to download firmware from Local CDS and upgrade the host machine.

NOTE:

When using Local CDS to upgrade it, refer to the manual/material of iW EMC/iW MC DFU plug-in.

CAUTION:

A message appears when an attempt is made to upgrade a host machine to which specified firmware has been applied. This is a precaution not to use wrong firmware to upgrade a host machine to which specified firmware has been applied. See the following regarding the combination of whether the message will be displayed:

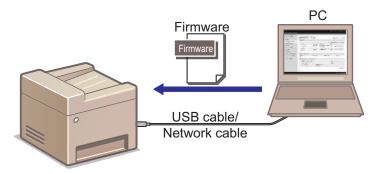
Type of firmware applied to the	Firmware to upgrade				
host machine	General firmware	Specified firmware			
General firmware	No message	No message			
Specified firmware	Message displayed	Message displayed			



Version Upgrade Using UST

UST is included in the firmware for the machine that can be downloaded from the website of CINC. Firmware is downloaded as a zip file and a folder containing UST is extracted by decompressing the file.

When executing UST on the PC connected to the machine with a USB Cable, the firmware can be upgraded by downloading it from the PC to the machine. For the detailed procedure, refer to "User Support Tool Operation Guide" stored in the decompressed folder. "User Support Tool Operation Guide" is also available on the website of CINC.





Version Upgrade via Internet

Connect to the Internet using the network function of the device, and download and upgrade the latest firmware from the server. If the device is in an environment where Internet connection is available, firmware versions can be upgraded only by operation from the menu without using PC.

■ Prerequisite

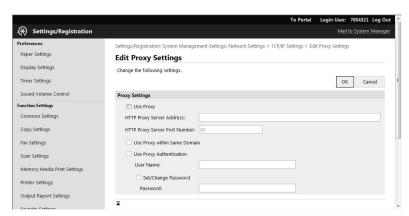
In order to perform version upgrade of the device via Internet, the following conditions must be met.

There should be no other jobs being executed.

Firmware cannot be upgraded while there is a job being executed. If there is a job being executed, wait for completion of the job and then perform the work.

The device should be able to be connected to the external network.

If connection is not available because, for example, there is a proxy server, follow the e-Manual to configure the proxy server settings and enable connection to the external network.



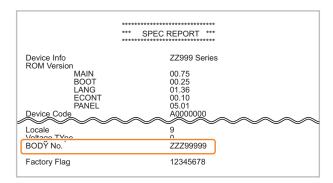
The serial number of the host machine should be shown on the Main Controller PCB.

Whether or not the serial number of the host machine is shown on the Main Controller PCB can be checked from the Control Panel or SPEC REPORT.

Procedure to check from SPEC REPORT

- 1. Execute the following service mode to print SPEC REPORT.
 - COPIER > FUNCTION > MISC-P> SPEC

2. Check if the serial number ("3 alphabetical characters + 5-digit number" or "1-digit number + 2 alphabetical characters + 5-digit number") is shown in [BODY No.] of the printed SPEC REPORT.



■ Procedure for Upgrading the Firmware via Internet

- 1. Select the following menu to upgrade the firmware via Internet:
 - [Management Settings] > [Remote UI Settings/Update Firmware] > [Update Firmware] > [Via Internet] > [Yes] When the upgrading of firmware is completed, the machine automatically restarts.
- 2. Select the following menu, and check that the firmware has been correctly upgraded:
 - [Management Settings] > [Remote UI Settings/Update Firmware] > [Update Firmware] > [Version Information]

CAUTION:

This function does not support the operations from remote UI. ([Update Firmware] does not exist in the [System Management Settings] menu of the remote UI.)

Messages

The message displayed on the device operation panel is as follows.

No	Error message	The timing of oc-	Remedy
-		currence	
1	Job in progress Wait a moment, then try again.	If there is a job being executed:	 Wait until the job is completed. Cancel the job.
2	Cannot check the firmware version. (Server communication error.)	Network error	 Check whether the device can be connected to the external network. Check whether the proxy setting has been made (in case of access via a proxy server).
3	Cannot download the firmware. (Error during download.)		 Check whether the device can be connected to the external network. Check whether the proxy setting has been made (in case of access via a proxy server). Check that the serial number of the host machine is shown on the Main Controller PCB.
4	***DOWNLOAD MODE*** NETWORK AVAILA- BLE IP ADRESS IP address of the machine PRESS STOP KEY TO EXIT	If update (writing) of the firmware has ended in failure:	Update the firmware again using UST.
5	***DOWNLOAD MODE*** FAILED TO UPDATE		
6	***DOWNLOAD MODE*** UPDATE IS COM- PLETE	If the update of the firmware is successful	-

Version Upgrade Using a USB Flash Drive (Released Only in Special Cases)

Connect a USB flash drive where the firmware is stored to this machine, and update the firmware in service mode.

NOTE:

Firmware that can be used for version upgrade using a USB flash drive is released only in special cases such as a tender business, and is not normally released. As for the detailed version upgrade procedure, follow the instructions given at the time of release of the customized firmware for version upgrade using a USB flash drive.

■ Prerequisite

In order to perform version upgrade of the machine using a USB flash drive, the following conditions must be met.

There should be no other jobs being executed.

Firmware cannot be upgraded while there is a job being executed. If there is a job being executed, wait for completion of the job and then perform the work.

Procedure for Upgrading the Firmware Using a USB Flash Drive

- 1. Connect a USB flash drive where the firmware is stored to this machine.
- 2. Execute one of the following service modes.
 - COPIER > FUNCTION > SYSTEM > DOWNLOAD
 - COPIER > FUNCTION > SYSTEM > DOWNLOAD_FORCE

NOTE:

If you want to apply only firmware that is newer than the firmware currently applied in the machine, execute DOWNLOAD. If you want to apply all the firmware contained in the USB flash drive regardless of whether it is newer or older, execute DOWNLOAD_FORCE.

- 3. The signature data of the downloaded file is verified, and download instruction information is written to the designated area of the flash memory only if the verification result is correct.
- 4. The machine is automatically restarted.
- 5. When the upgrading of firmware is completed, the machine automatically restarts.

Setting Information Export/Import Function (DCM)



Overview

Various data is stored in the storage inside the device.

Depending on the works to be done such as replacing parts, this data needs to be backed up and restored.

There are some ways to back up and restore data, and the appropriate one should be used depending on the purpose and storage destination.

This section describes the procedure for backing up and restoring service mode setting values.

For the procedure for backing up and restoring other information, refer to the e-Manual.

■ Function Overview

This machine has a setting information export/import function (hereinafter referred to as DCM (Device Configuration Management) function) which exports/imports the machine's setting value information as a file. The file exported/imported using the DCM function is called a DCM file, and the target setting information is as follows:

- · Setting information of the menu ([Settings/Registration] menu)
- · Service mode setting information
- · Address Book

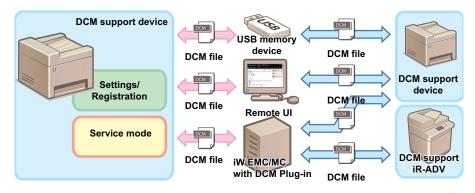
The DCM file is exported to a USB flash drive or PC local disk from the Control Panel or remote UI.

The exported DCM file can be returned to the original device or imported to a different device.

When the file is returned to the original device, this can be used as a function to back up the settings, and when the file is imported to a different device, this can be used as a function to copy setting information.

Data can also be imported to or exported from an iR-ADV machine by using iW EMC/MC DCM Plug-in.

In the case of the setting value backup function before implementation of the DCM function, an exported file could be imported only to the same device, but the DCM function enables import of an exported file to a different device.



Conceptual diagram

NOTE:

In order to export or import setting information using DCM, it is necessary that the device supports DCM.

■ Backup/Restoration for Service Technicians

Backup and Restoration from the Menu ([Settings/Registration] Menu)

Setting information can be backed up and restored from the Control Panel of the device or from the menu ([Settings/Registration] menu) of remote UI.

Although the menu ([Settings/Registration] menu) is for users, the service mode settings information can be backed up and restored from the Import/Export function by changing the service mode setting.

The service mode settings information can be backed up and restored only by accessing from the remote UI [Settings/Registration] menu.

Backup/Restoration Using Service Mode

Some of the functions in service mode can be used to backup and restore data.

Setting value information and service counter (DC-CON) values can be backed up and restored.

■ Combination of Information Exported/Imported by DCM, Means, and Storage Locations

A DCM file is exported and imported using the Control Panel, remote UI, or the iW EMC server, depending on the situation of the site.

The information exported/imported differs depending on the means.

Combinations of them are shown in the following table.

Menu used	Operation	Information exported			Save destination
		Setting values of menu options	Address book**1	Service mode set- ting values	
[Settings/Registra-	Control panel	Yes (fixed)*2	Yes (fixed)*2	No	USB flash drive
tion] menu	Remote UI	Yes	Yes	With conditions*3	PC local disk
Service mode	Control panel	No	No	Yes	USB flash drive / Storage in the host machine
	Remote UI	No	No	Yes	Storage in the host machine

■ Compatibility of Data

The following table shows compatibility of data in the case where the device from which the data is exported and the device to which the data is imported differ in model and/or serial number.

For items that are imported in Cases A, B, and C, refer to "List of Items Which Can Be Imported" on page 337.

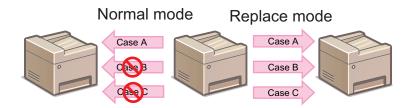
Model	Serial number	Import process
Same	Same	Items corresponding to Case A are imported.*4
Same	Different*5	Items corresponding to Case B are imported.*4
Different	Different*5	Items corresponding to Case C are imported.*6
Different	Same	The file is judged to be invalid, and the process ends with an error.

■ Replacement Mode

When this function is used for migrating the setting data upon replacement of a device, some of the data cannot be migrated depending on the model to which the data is migrated.

When this function is used in normal mode, data that is applicable to either Case B (of different serial number) or Case C (of different mode) cannot be imported.

When replacement mode of the device to which the data is imported is enabled, data can be forcibly migrated even to a device of a different serial number or even between different models.



- *1. Models without address books are excluded. In the case of a fax option model without SEND function, address books are exported only if a fax option is connected with the device.
- *2. When the [Settings/ Registration] menu is used from the Control Panel, both the setting menu information and the address book are imported/exported. It is not possible to export/import only either of them.

 Information which is not included in the data to be imported is not imported.
- *3. Service mode is added to the data to be exported only when service mode COPIER > OPTION > USER > SMD-EXPT is set. For information on items that are imported, refer to "List of Items Which Can Be Imported".
- *4. If the firmware version at the time of import differs from that at the time of export, predetermined corrective processing may be performed.
- *5. If a serial number is missing, the serial numbers are judged to be mismatched.
- *6. Predetermined corrective processing may be performed.

The following shows the procedure to turn ON replacement mode of the device to which the data is imported:

1. Set the following service mode setting value to "1":

• COPIER > OPTION > USER > RPL-IMP

NOTE:

Refer to "List of Items Which Can Be Imported" on page 337 for the target data of replacement mode.

CAUTION:

Since replacement mode is not lifted automatically, the setting value of the foregoing service mode needs to be changed back to "0" to return to normal mode.



Import/Export Procedure from [Settings/Registration] of Remote UI

This section describes the procedure for backing up and restoring service mode setting information by using the [Import/Export] function in the [Settings/Registration] menu of Remote UI.

CAUTION:

- The service mode setting information can be backed up and restored only from the [Settings/Registration] menu on Remote UI, and the operation cannot be performed from the [Settings/Registration] menu on the Control Panel.
- In the case of backing up and restoring only the setting information of the [Settings/Registration] menu or the address book, refer to the procedure described in the e-Manual.

Limitations

The following limitations exist when backing up and restoring the service mode settings information from the [Settings/Registrations] menu of remote UI.

A job must not be accepted during an import/export processing.

Except for the calibration requested by the engine, a job is not allowed to be accepted during a processing. In addition, import/export must not be performed during execution of a job.

Firmware must not be updated during an import/export processing.

Fax cannot be received while firmware is updated during a processing. In addition, import/export must not be performed also during firmware update.

Power must not be turned off during an import/export processing.

If power discontinuity occurs during an import processing, a rollback processing is not performed, therefore the settings imported up to that point are reflected while the rest of the settings remain as-is.

When power discontinuity occurs during an export processing, export is not executed.

■ Procedure for Export from Remote UI ([System Management Settings] Menu)

Service mode setting information can be exported from the [System Management Settings] menu by setting the following service mode setting value to "1".

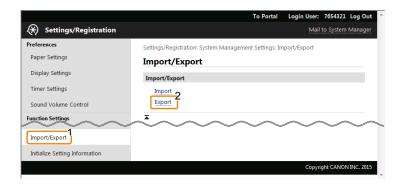
- 1. Enter service mode, and set the following item to "1".
 - COPIER > OPTION > USER > SMD-EXPT

NOTE:

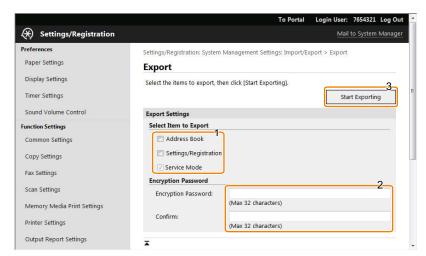
The [SMD-EXPT] setting can be configured either from the Control Panel or from the remote UI.

2. Exit service mode, start remote UI, log in as a system administrator, and then select the following item:

• [Settings/Registration] > [Import/Export] > [Export]



3. After confirming that [Service Mode] is displayed/selected in [Select Item to Export], enter the password and click [Start Exporting].



Address Book

Select the check box to export the address book data.

Settings/Registration

Select this check box to import the menu option data.

Encryption password

Enter 32 or less numeric characters set when the file was exported.

- 4. The file download dialog box will appear. Save the file to any location.
- 5. Enter service mode, and set the following item to "0".
 - COPIER > OPTION > USER > SMD-EXPT

CAUTION:

Since the screen of export function can also be accessed by the user, be sure to disable the [SMD-EXPT] setting (setting value: 0).

■ Procedure for Import from Remote UI ([System Management Settings] Menu)

Import the service mode setting information file that was exported in the previous procedure.

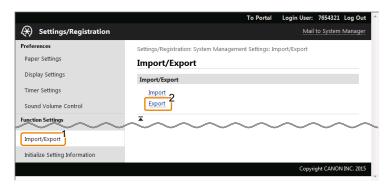
- 1. Enter service mode, and set the following item to "1".
 - COPIER > OPTION > USER > SMD-EXPT

NOTE:

The [SMD-EXPT] setting can be configured either from the Control Panel or from the remote UI.

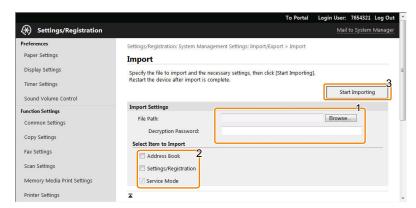
2. Exit service mode, start remote UI, log in as a system administrator, and then select the following item:

• [Settings/Registration] > [Import/Export] > [Import]



3. Configure the import settings, and click [Start Importing].

Entering the password and clicking [Start Importing] imports the menu option data.



[Browse...] button

Click to select the file to import.

Decryption password

Enter 32 or less numeric characters set when the file was exported.

Address Book

Select the check box to import the address book data.

Settings/Registration

Select this check box to import the menu option data.

4. Click [OK] when a dialog box confirming whether you want to execute the import process is displayed.



5. When a message indicating completion of the processing appears, click [OK].



- 6. Restart this machine, enter service mode, and confirm that the setting information is reflected. This completes the procedure for importing a setting information file.
- 7. Enter service mode, and set the following item to "0".
 - COPIER > OPRION > USER > SMD-EXPT

CAUTION:

Since the screen of export function can also be accessed by the user, be sure to disable the [SMD-EXPT] setting (setting value: 0).



Procedure for Exporting/Importing Service Mode Setting Information

Service mode setting information can be backed up and restored by using service mode functions. The backup file can be saved to a USB flash drive or a storage in the machine.

Backup/restoration to a USB flash drive

COPIER > FUNCTION >SYSTEM > EXPORT COPIER > FUNCTION >SYSTEM > IMPORT

Backup/restoration to a storage in the machine

COPIER > FUNCTION >SYSTEM > SAVE-SM COPIER > FUNCTION >SYSTEM > RSTR-SM

	Backup/restoration to a USB flash drive	Backup/restoration to a storage in the machine
Storage destination	USB flash drive	Storage in the machine
Number of files saved	Depends on the capacity of the USB flash drive	One
Duplication of the setting	Possible	Not possible
values for other machines		

■ Procedure for Exporting to a USB Flash Drive

Use the service mode function to save the service mode setting information to a USB flash drive.

This operation can be performed both from the Control Panel and remote UI.

The following USB flash drives can be used for export/import.

- USB flash drive in FAT 16 format (storage capacity: 2 GB)
- USB flash drive in FAT 32 format (storage capacity: 32 GB)

Note that the descriptions in parenthesis in the procedure are the descriptions in the case of remote UI.

- 1. Connect the USB flash drive to the USB Memory Port.
- 2. Enter service mode, and execute the following service mode.
 - COPIER > FUNCTION > SYSTEM > EXPORT

CAUTION:

Even if the service mode is executed without connecting a USB flash drive, an error is not displayed. It looks as if the process has been completed successfully, but the file has not been exported to anywhere.

For the reason shown above, be sure to check before execution that a USB flash drive is connected.

- 3. The message displayed during the process will disappear. When the display has returned to the original state, remove the USB flash drive.
- 4. Check that a setting information file (service.dcm) exists in the directory directly under the root of the USB flash drive.

This completes the export of a setting information file.

■ Procedure for Import from USB Flash Drive

- 1. Save the setting information file (service.dcm) to be imported to directly under the root of the USB flash drive.
- 2. Connect the USB flash drive to the USB Memory Port.

- 3. Enter service mode, and execute the following service mode.
 - COPIER > FUNCTION > SYSTEM > IMPORT
- 4. The message displayed during the process will disappear. When the display has returned to the original state, remove the USB flash drive.
- 5. Restart this machine, enter service mode, and confirm that the setting information is reflected.

This completes the the import of a setting information file.

Backup Procedure to the Storage in the Machine

Use the service mode function to back up the service mode setting information to the storage in the machine.

This operation can be performed both from the Control Panel and remote UI.

The setting information that can be saved in the machine's storage is only one.

- 1. Enter service mode, and execute the following service mode.
 - COPIER > FUNCTION > SYSTEM > SAVE-SM
- 2. Backup process is complete after checking that the message displayed during the process disappears and the display returns to the original state.

■ Procedure for Restoration from Internal Storage

Restore the service mode setting information that has been backed up to the storage in the machine in the previous procedure.

- 1. Enter service mode, and execute the following service mode.
 - COPIER > FUNCTION > SYSTEM > RSTR-SM
- 2. Restoration process is complete after checking that the message displayed during the process disappears and the display returns to the original state.

Monitoring Function (imageWARE Remote)



Overview of System

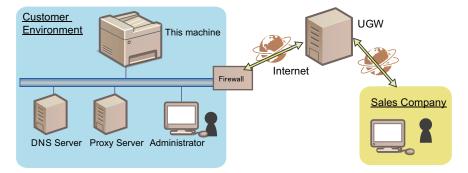
■ Function Overview

E-RDS (Embedded RDS) is a monitoring program that runs on the host machine. When the monitoring option is enabled by making the setting on this machine, information such as the status change of the machine, counter information, and failure information are collected. The collected device information is sent to a remote maintenance server called UGW (Universal Gateway Server) via Internet.

The information to be monitored is:

- · Billing counter
- · Parts counter
- · ROM version
- · Service call error log
- · Jam log
- · Alarm log
- · Change of status (such as status of consumables)

Since the information shown above is customer information, HTTPS/ SOAP protocol is used for communication between the UGW server and the host machine to improve security.



■ Features

E-RDS is embedded in the network module of the device, and the front-end module of the imageWARE Remote system is realized without requiring hardware besides the device.

Main Functions

Functional cat- egory	Sub category	Description
Communication Test	Test	By executing the following service mode, E-RDS communicates with UGW, retrieves schedule information, and establish communication. COPIER > FUNCTION > INSTALL > COM-TEST
Transmission of counters	Billing/all resources/parts/ mode-by-mode counters	E-RDS Periodically send billing/all resources/parts/mode-by-mode counters to the server.
Transmission of event logs	Service call/alarm/jam log	Each time a service call, alarm, or jam log occurs, the error log is sent to the server. Having alarm log or not is different by a model.
Data transmis- sion	ROM version / Device configuration	E-RDS periodically sends the firmware information of the device to UGW. E-RDS sends the device configuration information only when there is any change in the configuration.
	E-RDS Debug log	Debug logs of E-RDS are stored in E-RDS, and they are sent to UGW only when they exceed a specific size.
	Sublog transmission	When E-RDS catches the sublog transmission of a message designation than UGW, send data such as device Sublogs and DCON logs to the server.
Operation in- struction	Operation check	E-RDS contacts UGW to check if there is processing to be executed next, and receives the following instructions if any. • Linkage with CDS • Sublog transmission

Servicing Notes

- After clearing the Main Controller PCB, initialization of the E-RDS setting (ERDS-DAT) and a communication test (COM-TEST) need to be performed. If this work is omitted, an error may occur when counters are sent to UGW.
 - After replacing the Main Controller PCB, all the settings need to be reconfigured.
- Do not change the values of the following service modes unless otherwise instructed.

If they are changed, a communication error will occur with UGW.

- Port number of UGW [COPIER] > [FUNCTION] > [INSTALL] > [RGW-PORT] Default: 443
- If the imageWARE Remote contract of the device becomes invalid, be sure to turn OFF the E-RDS setting (E-RDS: 0).
- When the E-RDS function is enabled, a communication test can be performed from [Check Counter] of the Control Panel of the host machine *1

When conducting a communication test from [Check Counter], pay attention to the following points:

- During a communication test, do not take any actions such as pressing a key. Actions are not accepted until the communication test is completed (actions are ignored).
- When a communication test is being conducted from service mode or from [Check Counter], do not conduct a communication test from the other. This operation is not guaranteed.

Setting Procedure

Preparation

Since this function communicates with the UGW server, it is necessary to connect to the external network. Check the following items, and make the settings if not yet set.

- · IP address settings
- · DNS server settings
- Proxy server settings*2
- Installation of CA certificate (arbitrary *3)

CAUTION:

- · Obtain the information on the network environment from the system administrator of the user.
- When having changed the network settings, turn OFF and then ON the main power of the machine.

■ Procedure for Setting E-RDS

- 1. In the following service mode, select the following service mode to initialize the E-RDS setting values:
 - COPIER > FUNCTION > CLEAR > ERDS-DAT

NOTE:

This operation initializes the E-RDS settings to factory setting values.

For the setting values to be initialized, see the section of "Setting values and data to be initialized" on page 62.

- 2. Enable the E-RDS function in the following service mode, and perform a communication test.
 - 1. Select the following item:
 - COPIER > FUNCTION > INSTALL > ERDS

^{*1.} The user can perform a communication test or browse the result of communication test.

If the communication results in failure, an error code (hexadecimal number, 8 digit) is displayed on the Control Panel.

^{*2.} If authentication is necessary, make the settings of the authentication information as well.

^{*3.} When using a certificate other than those pre-installed in the device

2. Enter [1] from the keyboard, and press [Apply].

CAUTION:

The following settings i.e. RGW-PORT in Service mode must not be change unless there are specific instructions to do so. Changing these values will cause error in communication with UGW.

When the E-RDS function is enabled, the function to communicate with UGW is enabled.

3. Select [COM-TEST] and then touch [Yes].

If the communication is successful, "OK" is displayed. If "NG" is displayed, check the network settings and USW server address (URL).

CAUTION:

The communication results with UGW can be distinguished by referring to the COM-LOG. By performing the communication test with UGW, E-RDS acquires schedule information and starts monitoring and meter reads operation.



Maintenace

Initializing E-RDS settings

It is possible to clear the FLASH data of E-RDS and change the E-RDS setting back to the default value.

Initialization procedure

Follow the procedure shown below to initialize E-RDS.

- 1. Enter service mode as a system administrator user.
- 2. Select the following service mode, and press [OK] to execute.
 - COPIER > FUNCTION > CLEAR > ERDS-DAT

Setting values and data to be initialized

The following E-RDS settings, internal data, and Alarm filtering information are initialized.

- COPIER > FUNCTION > INSTALL > ERDS
- COPIER > FUNCTION > INSTALL > RGW-PORT
- COPIER > FUNCTION > INSTALL > COM-LOG

CAUTION:

If a certificate other than the CA certificate at the time of shipment has been installed, initializing the E-RDS setting will not change the settings back to those at the time of shipment. To change the certificate back to the CA certificate at the time of shipment, delete the certificate (install the CA certificate at the time of shipment) after initializing the E-RDS settings.

■ Report Output of Communication Error Log (COM-LOG)

A report of communication error log information on five affairs can be output.

Report output procedure

- 1. Select the following service mode, and press [Yes].
 - COPIER > FUNCTION > MISC-P > ERDS-LOG

12/09 2015 10:14AM

No.01 DATE 12/09 2015 TIME 03:21 AM CODE 05000003 Information SUSPEND: Communication test is not performed.

No.02 DATE 12/09 2015 TIME 03:21 AM CODE 00000000 Information SUSPEND: mode changed.

No.03 DATE 12/09 2015 TIME 03:18 AM CODE 05000003 Information SUSPEND: Communication test is not performed.

No.04 DATE 12/09 2015 TIME 03:18 AM CODE 00000000 Information SUSPEND: mode changed.

No.05 DATE 12/09 2015 TIME 01:56 AM CODE 05000003 Information SUSPEND: Communication test is not performed.

Output sample

Security Functions

A technical description on the security-related functions implemented in this equipment and the works to be performed for servicing are shown below.

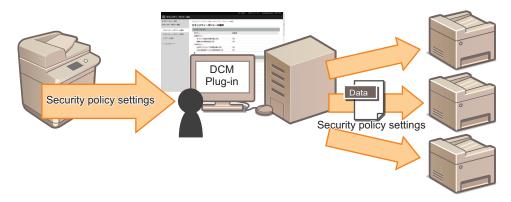


Security Policy Function

What is security policy function?

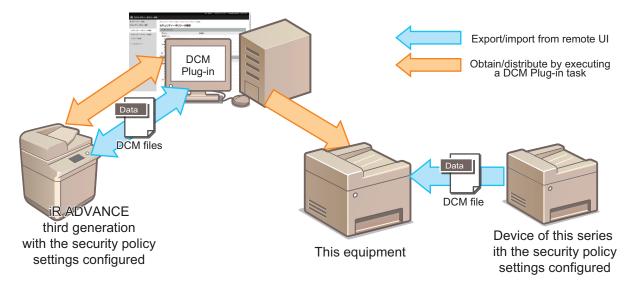
The security policy function is a function for collectively configuring the security-related settings on devices located at various places.

If the user has security policies such as information security basic policies and security standards, the settings can be collectively configured/managed in accordance with the security policies.



Perform either of the following works to configure the security policies on this equipment.

- Using iW EMC DCM Plug-in, distribute the security policy settings created by an iR ADVANCE third generation device.
- · Import the DCM file exported from a device of the same series where the security policy settings have already been enabled.



NOTE:

Security policy settings can be configured on devices of this series only by distributing the settings using iW EMC DCM Plug-in. A DCM file imported from a device of this series where the security policy settings have been configured can be used to configure the settings, but the original device where the settings have been configured can be created only by using iW EMC DCM Plug-in. In iR ADVANCE series, the security policy function is implemented only in the third generation devices.

■ Security Administrator

Differences between Security Administrator and System Manager

In the security policy setting function, there is an administrator called a "security administrator" in addition to the conventional "system manager".

The system manager can operate/set all the items in the [Settings/Registration] menu of the device.

However, if the security policy has been set by the security administrator described later, even the system manager cannot perform operation or change the settings against the security policy.

The security administrator is an administrator who creates, applies, edits, backs up, and restores the security policy.

The security administrator is a system manager and is a user who knows the password for the security policy settings.

	Account	[Settings/Registration] menu				Policy-	related		
	Add/ delete	Settings (Adminis- trator set- tings)	Settings (Other than the adminis- trator set- tings)	Initialize (User mode)	Initialize (Service mode)	Intro- duce/ change	Browse	Back up/ restore	Disable the re- strictions
Security administrator	1	√*1	√*1	✓	-	1	1	1	1
System manager	1	J*1	√*1	=	-	-	1	1	-
End user	-	-	√*1	=	-	-	-	-	-
Service technician	1	-	-	-	/	-	-	-	1

Security Administrator Password

The security administrator password is a password that is set to protect the configured security policy. The password setting is not mandatory.

Behavior when the security administrator password has been set

If the security administrator password has been set on this equipment, the security administrator password is required when [Initialize All Data/Settings] is executed. This is intended to prevent the device from being initialized without discretion and the configured security policy from being disabled.

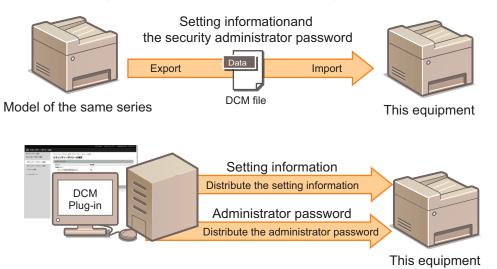
NOTE:

Even if the security administrator password has not been set, as long as the security policy has been configured, [Management Settings] > [Data Management] > [Initialize Menu] is grayed out and cannot be used.

Importing the security administrator password

If a security policy setting file of iR ADVANCE series where the security administrator password has been set is imported via iW EMC DCM Plug-in, the security administrator password is not reflected.

In the case of importing the file via iW EMC DCM Plug-in, it is necessary to execute [Create Task to Change Security Policy Password] and distribute the security administrator password to set the security administrator password.



Initializing the security administrator password

In case the user has forgotten the security administrator password, there is a service mode setting for initializing the password. Execute the service mode shown below to initialize the security administrator password set on this equipment.

Service mode > COPIER > Function > CLEAR > PLPW-CLR

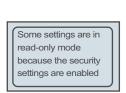
^{*1.} Restrained by the policy

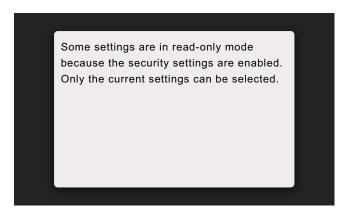
■ Screen Displayed When Security Policy Is Applied

If the security policy is applied, the message shown below appears when you access the [Settings/Registration] screen.



Example of the remote UI screen





Example of the Control Panel (Touch Panel) screen

If the security administrator password has been set, the security administrator password is required when [Initialize All Data/ Settings] is executed.





Security administrator password entry screen

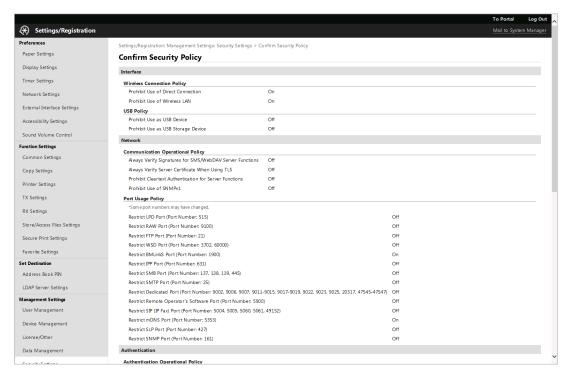
■ Checking the Configured Settings

The policy settings that have been configured can be checked on the remote UI screen shown below.

1. Start remote UI as a user having the administrator privileges.

2. Display the screen shown below.

• [Settings/Registration] > [Management Settings] > [Security Settings] > [Confirm Security Policy]



Screen example

NOTE:

On the [Confirm Security Policy] screen, all the settings related to security policies are displayed regardless of the model. Therefore, policy settings related to functions that are not implemented in the model are also displayed.

For example, the models of this series do not have the SMB server function, but [Restrict SMB Port] is displayed.

■ Export/Import of Setting Information

For the procedure for exporting/importing setting information, refer to the User's Guide of this equipment or the User's Guide of iW EMC DCM Plug-in.



Periodical Service

Periodically Replaced Parts	69
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Periodically Replaced Parts

This machine does not have any periodically replaced parts.

Consumable Parts

This machine does not have any consumable parts.

Periodical Services

This machine does not require any periodical service.



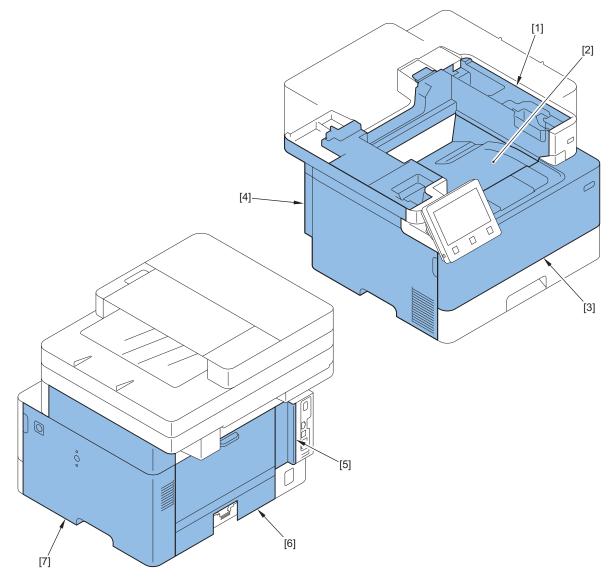
Parts Replacement and Cleaning

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External Cover System	81
Original Exposure/Feed System	95
Controller System	.120
Laser Exposure System	138
Image Formation System	140
Fixing System	.141
Pickup Feed Delivery System	144

List of Parts

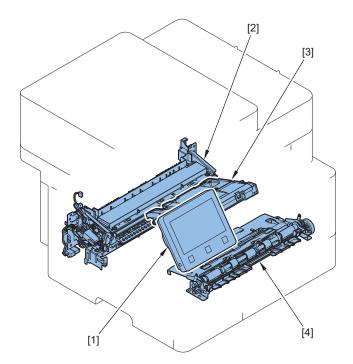


■ External Cover



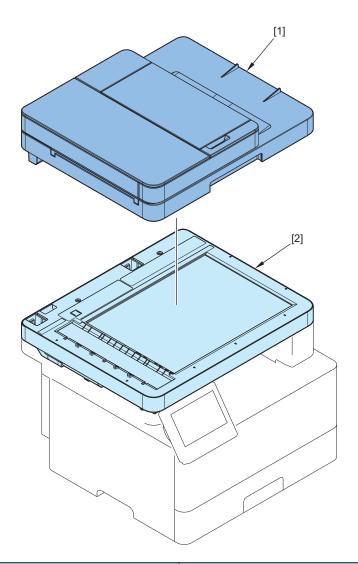
No.	Name
[1]	Upper Cover
[2]	Output Tray
[3]	Cartridge Door
[4]	Left Cover
[5]	Left Rear Cover
[6]	Rear Door
[7]	Right Cover

■ Host Machine



No.	Name
[1]	Control Panel Unit
[2]	Fixing Assembly
[3]	Laser Scanner Unit
[4]	Registration Unit

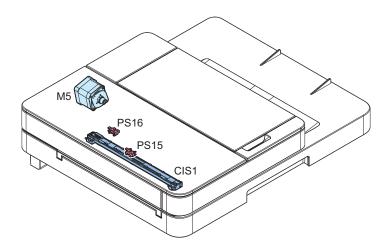
■ ADF/Reader



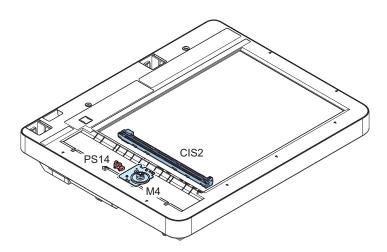
No.	Name
[1]	ADF Unit
[2]	Reader Unit

Layout Drawing of Electrical Components

■ ADF/Reader

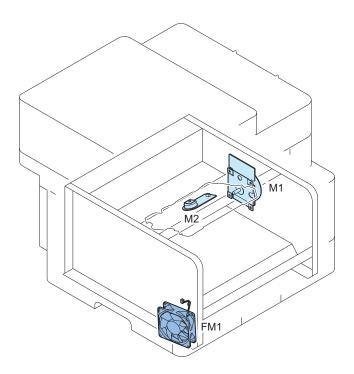


No.	Name
M5	ADF Motor
CIS1	Contact Image Sensor
PS16	Document Sensor
PS15	Document End Sensor



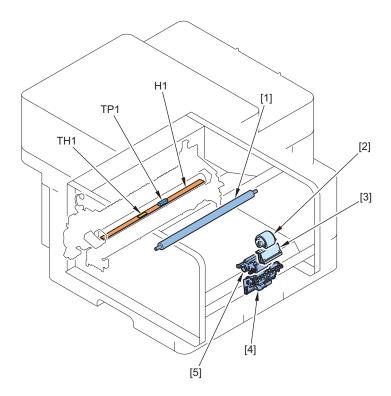
No.	Name
M4	Reader Motor
CIS2	Contact Image Sensor
PS14	CIS HP Sensor

■ Motor/Fan



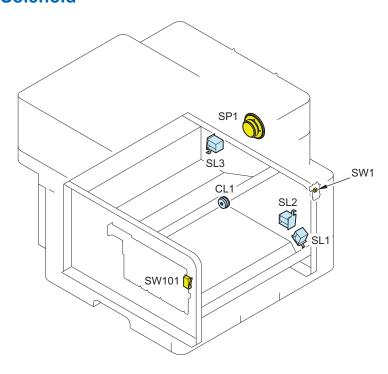
No.	Name
M1	Fixing Motor
M2	Laser Scanner Motor
FM1	Main Fan

■ Heater/Etc.



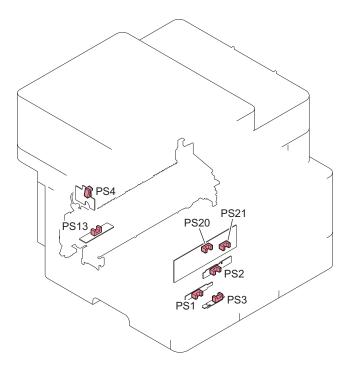
No.	Name
H1	Fixing Heater
TH1	Thermistor
TP1	Thermo switch
[1]	Transfer Roller
[2]	MP Tray Pickup Roller
[3]	MP Tray Separation Pad
[4]	Cassette Separation Roller Unit
[5]	Cassette Pickup Roller Unit

■ Switch/Clutch/Solenoid



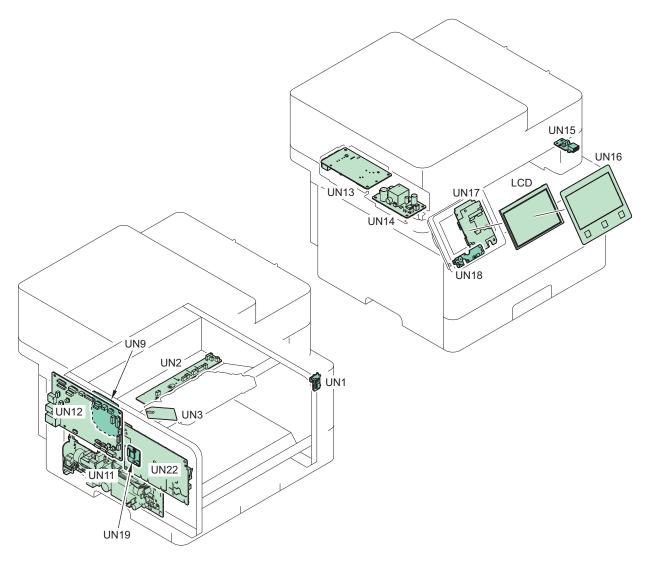
No.	Name
CL1	Duplex Re-pickup Clutch
SL1	Cassette Pickup Solenoid
SL2	MP Tray Pickup Solenoid
SL3	Duplex Reverse Solenoid
SW1	Power Switch
SW101	Cartridge Door Switch
SP1	Speaker

■ Sensor



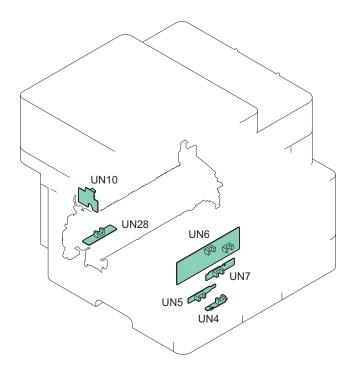
No.	Name
PS1	Cassette Paper Sensor
PS2	TOP Sensor
PS3	MP Tray Paper Sensor
PS4	Delivery Tray Full Sensor
PS13	Fixing Delivery Sensor
PS20	Paper Width Sensor
PS21	Duplex Feed Sensor

■ PCB



No.	Name
UN1	Power supply switch PCB
UN2	Relay PCB
UN3	Laser Scanner Driver PCB
UN9	DC Controller PCB
UN11	Low Voltage Power Supply Unit
UN12	Main Controller PCB
UN13	FAX PCB
UN14	Off Hook PCB
UN15	USB PCB
UN16	5-inch Touch Panel
UN17	Control Panel PCB
UN18	Control Panel LED PCB
UN19	Wireless LAN PCB
UN22	High Voltage Power Supply PCB
LCD	LCD

5. Parts Replacement and Cleaning



No.	Name
UN4	MP Tray Paper Sensor PCB
UN5	Cassette Paper Sensor PCB
UN6	Paper Width/ Duplex Feed Sensor PCB
UN7	TOP Sensor PCB
UN10	Delivery Tray Full Sensor PCB
UN28	Fixing Delivery Sensor PCB

External Cover System

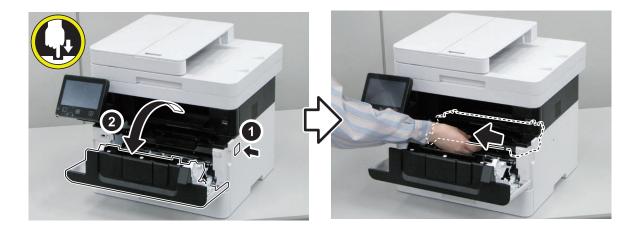
Removing the Cartridge

■ Procedure

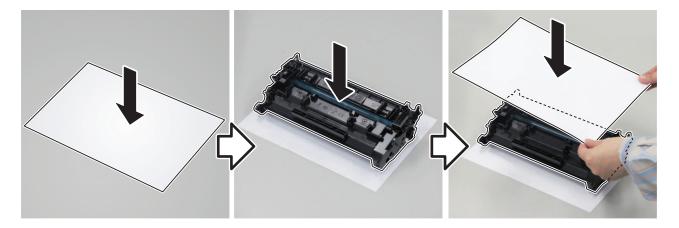
CAUTION:

When handling the cartridge, be sure to follow the CAUTION shown below.

• When removing the cartridge, be sure to block light to the Photosensitive Drum. Cover the removed drum with 5 or more sheets of paper to block light.



2.

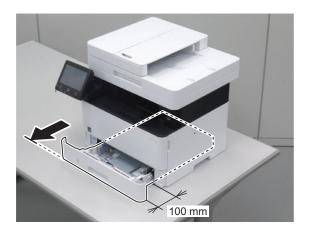


Removing the Right Cover

■ Preparation

1. "Removing the Cartridge" on page 81

■ Procedure



CAUTION:

When removing the cover, moving the product 50 mm or more while the cassette is pulled out will disturb the balance of the product and may cause it to fall down; therefore, do not completely pull out the cassette.



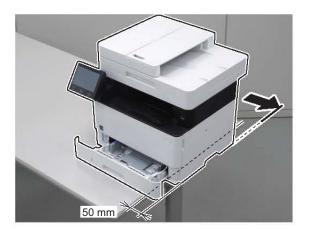


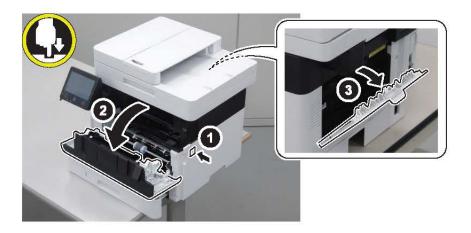
2.

CAUTION:

If it is moved too much when removing the Cover, pressure will be applied to the Cassette Rear Cover and the cover may be damaged.

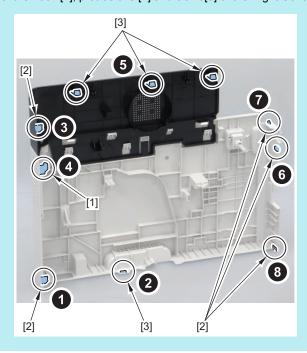


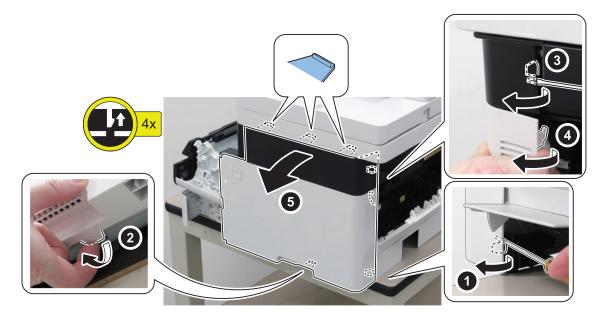


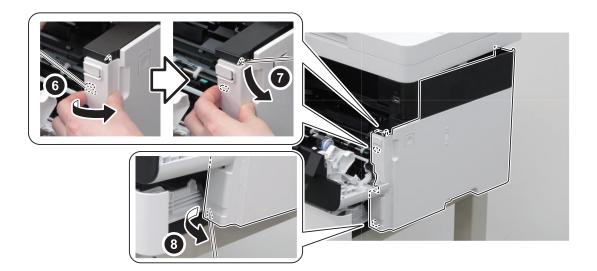


NOTE:

The positions and removal order of the hook [1], protrusions [2] and claws[3] of the Right Cover are shown below.





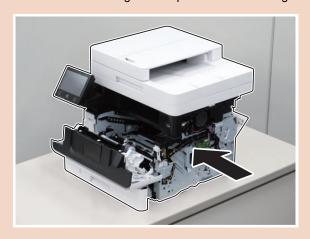


6.



CAUTION:

Shift the host machine back to the center of the working table to prevent it from falling down.



NOTE:

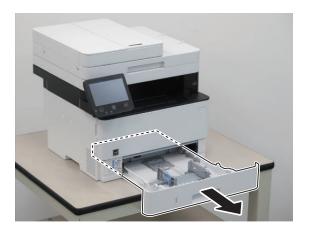
When installing the Right Cover, be sure to push in the Cartridge Door Button if it is not installed properly.

Removing the Left Cover

■ Preparation

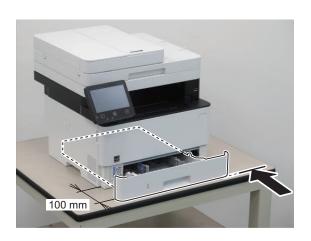
■ Procedure

1.



2.





CAUTION:

When removing the cover, moving the product 70 mm or more while the cassette is pulled out will disturb the balance of the product and may cause it to fall down; therefore, do not completely pull out the cassette.



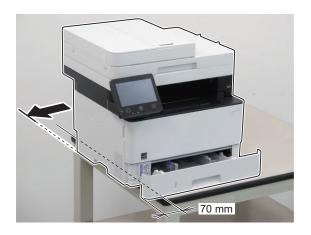


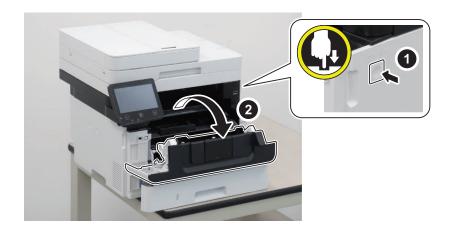
4.

CAUTION:

If it is moved too much, pressure will be applied to the Cassette Rear Cover and the cover may be damaged.



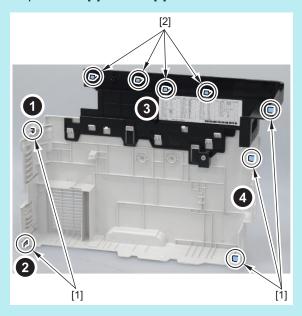


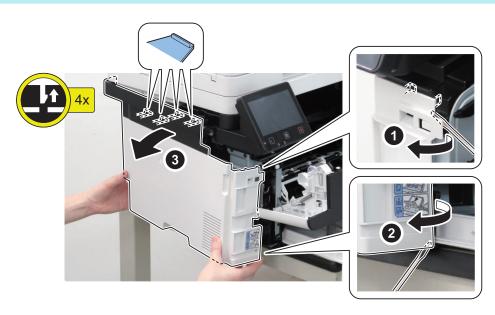


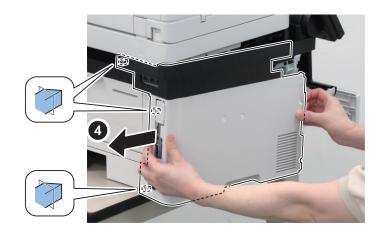
6.

NOTE:

The positions and removal order of the protrusions [1] and claws[2] of the Left Cover are shown below.

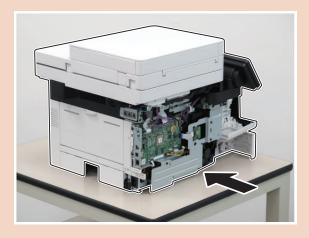






CAUTION:

Shift the host machine back to the center of the working table to prevent it from falling down.

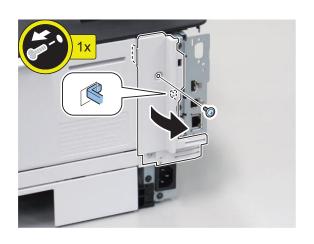


Removing the Left Rear Cover

■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85

■ Procedure



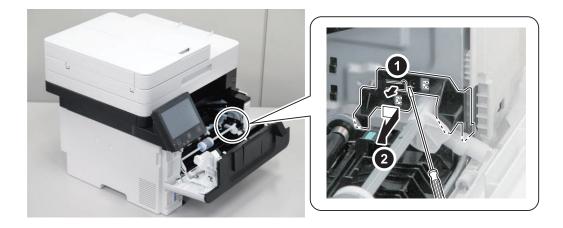
Removing the Cartridge Door

■ Preparation

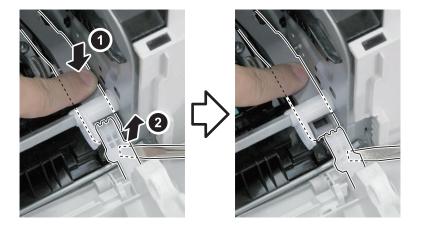
- 1. Remove the cassette.
- 2. "Removing the Cartridge" on page 81

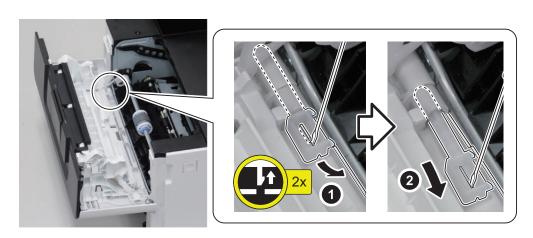
■ Procedure

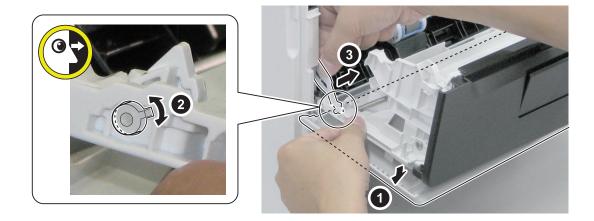
1.



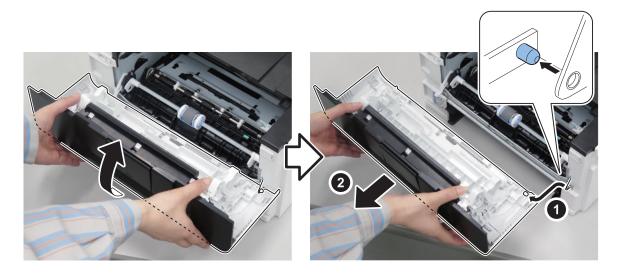
2.







5.

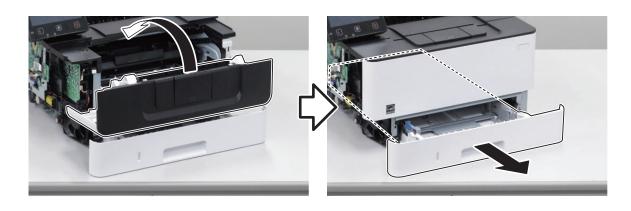


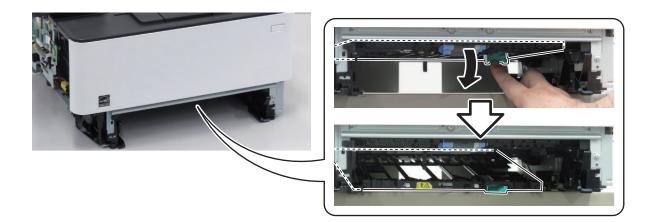
Removing the Rear Door

■ Preparation

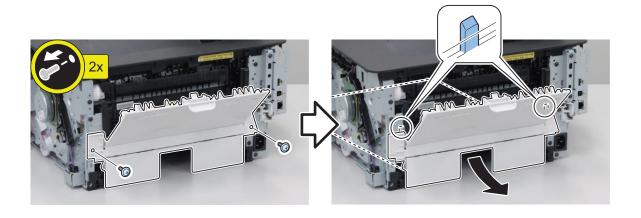
- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Left Rear Cover" on page 89
- 4. "Removing the Right Cover" on page 81

■ Procedure

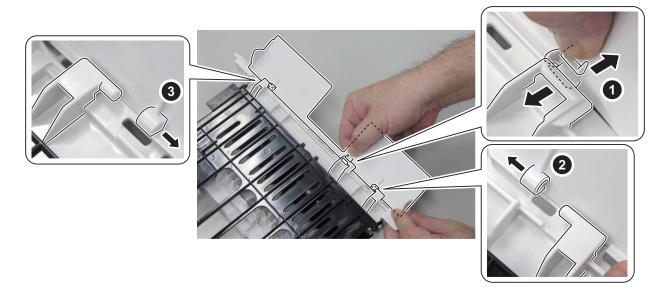




3.



4.

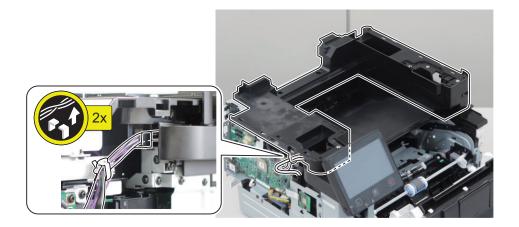


Removing the Upper Cover

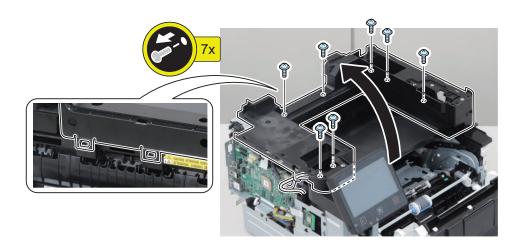
■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Right Cover" on page 81
- 4. "Removing the ADF Unit + Reader Unit" on page 95

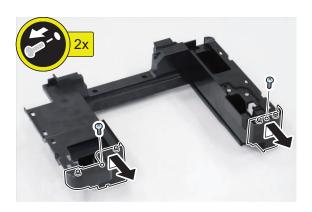
■ Procedure



2.



3.

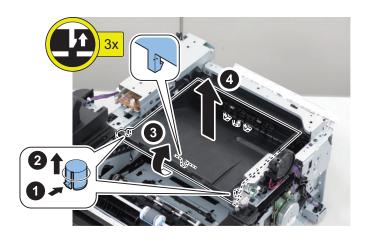


Removing the Output Tray

■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Right Cover" on page 81
- 4. "Removing the ADF Unit + Reader Unit" on page 95
- 5. "Removing the Upper Cover" on page 92

■ Procedure



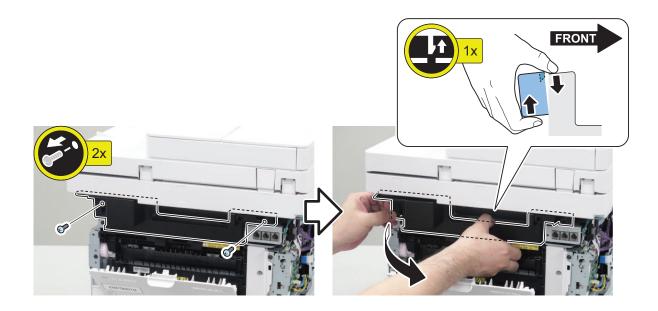
Original Exposure/Feed System

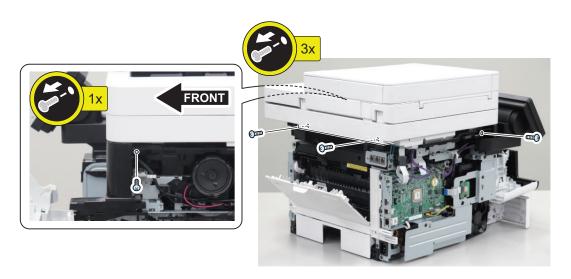
Removing the ADF Unit + Reader Unit

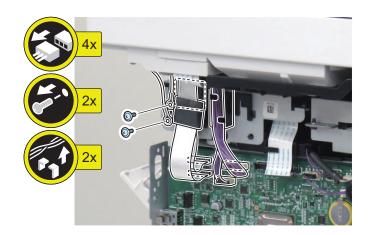
■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Right Cover" on page 81

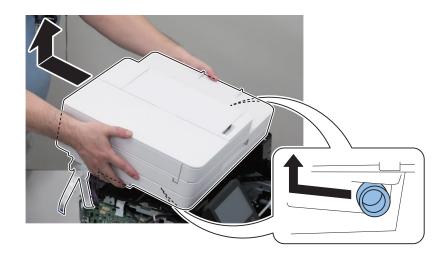
■ Procedure







4.



Separating the ADF Unit + Reader Unit

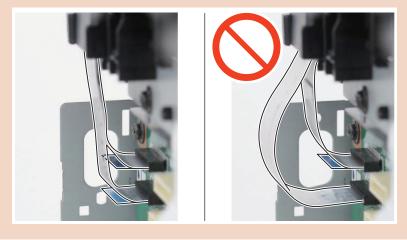
■ Preparation

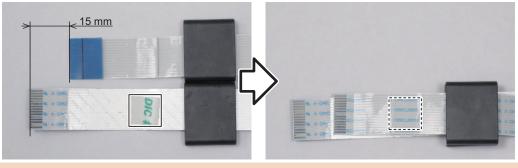
- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Right Cover" on page 81
- 4. "Removing the ADF Unit + Reader Unit" on page 95

■ Procedure

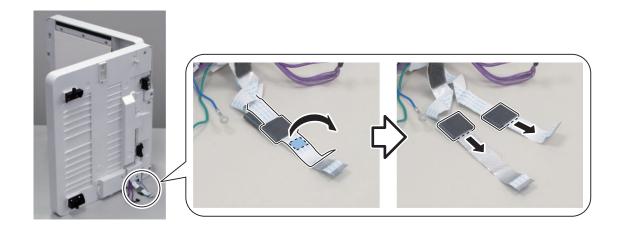
CAUTION:

If the Flat Cable is not securely fitted when removing the Left Cover, it may come in contact with the protrusion on the back side of the Left Cover, resulting pulling out the Flat Cable from the connector or damage on the Flat Cable. When installing the ADF Unit and the Reader Unit, affix the Flat Cable for the Reader to the Flat Cable for the ADF using the double-sided tape on the cable for the ADF while shifting the leading edge of the cable for the Reader for 15 mm so that the cable is securely fitted.

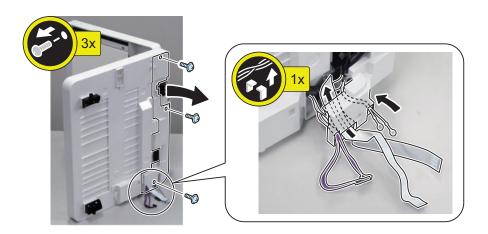


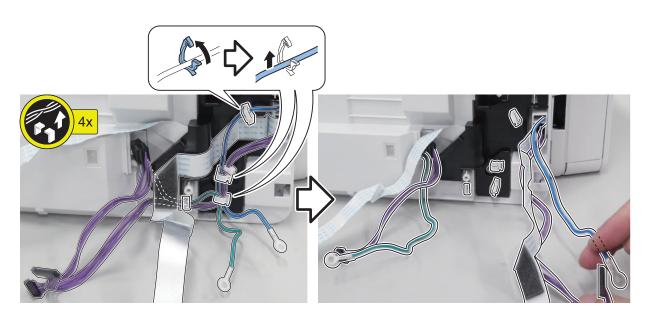






3.





NOTE:

The ADF Unit can only be removed from the Reader Unit if it is opened to the position indicated by the arrow [A], as it has two claws.





6 • Actions after replacement:

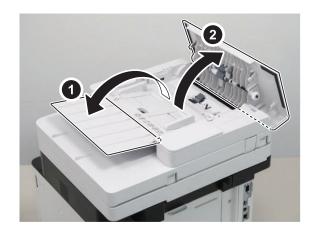
- "After Replacing the ADF Unit" on page 167
- "After Replacing the ADF Unit" on page 167

Removing the ADF Roller Unit

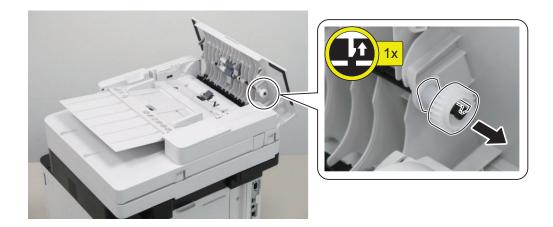
■ Procedure

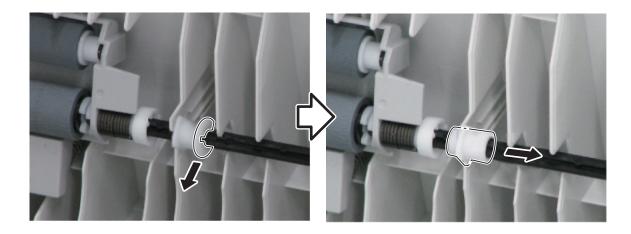
CAUTION:

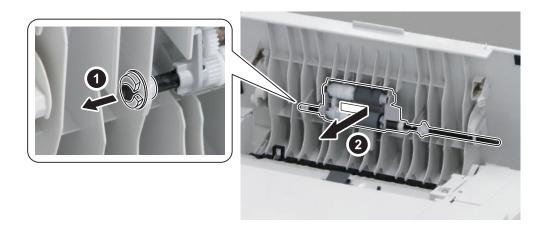
Do not touch the surface of the roller with bare hands, as doing so will attach skin oil on it and decrease feedability.



2.







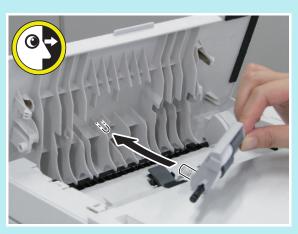
CAUTION:

Because the spring attached to the ADF Roller Unit is easy to come off, be careful about its loss.



NOTE:

When installing, match the spring of the ADF Roller Unit to the boss.



Removing the ADF Pickup Roller

■ Preparation

1. "Removing the ADF Roller Unit" on page 99

■ Procedure

CAUTION:

Do not touch the surface of the roller with bare hands, as doing so will attach skin oil on it and decrease feedability.

1.



2.



Removing the ADF Separation Roller

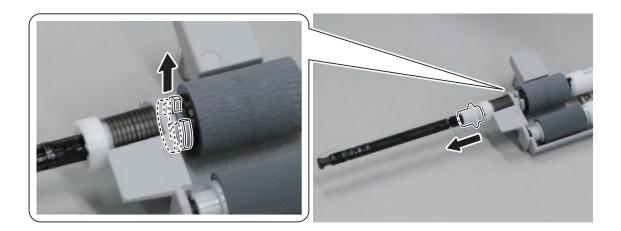
■ Preparation

1. "Removing the ADF Roller Unit" on page 99

■ Procedure

CAUTION:

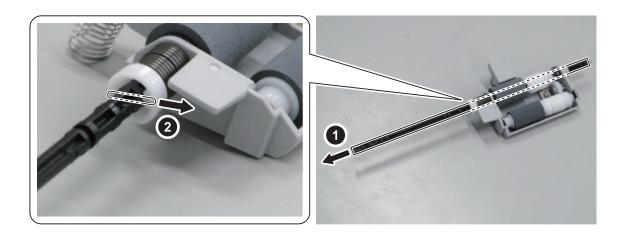
Do not touch the surface of the roller with bare hands, as doing so will attach skin oil on it and decrease feedability.

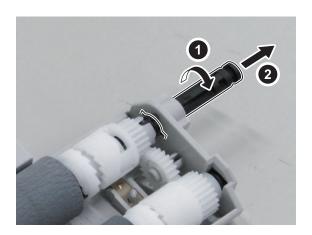


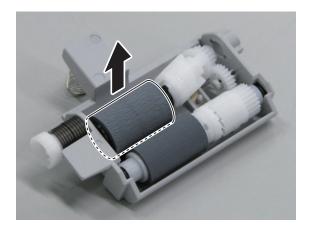
2.

CAUTION:

Be careful not to lose the Parallel Pin during installation/removal because it can easily come off.







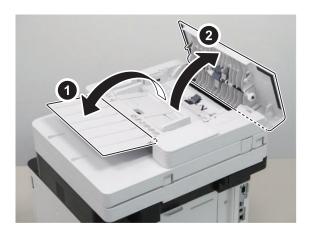
Removing the ADF Separation Pad Unit

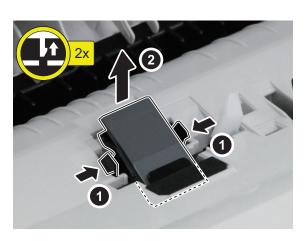
■ Procedure

CAUTION:

Do not touch the surface of the pad with bare hands, as doing so will attach skin oil on it and decrease feedability.

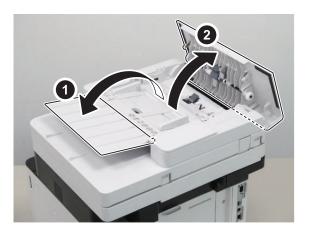
1.



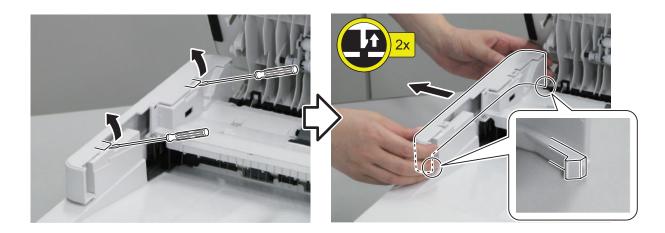


Removing the ADF Upper Cover Unit

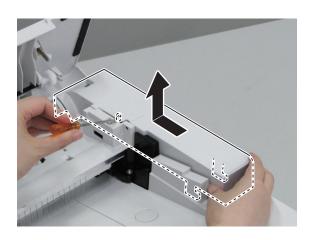
■ Procedure



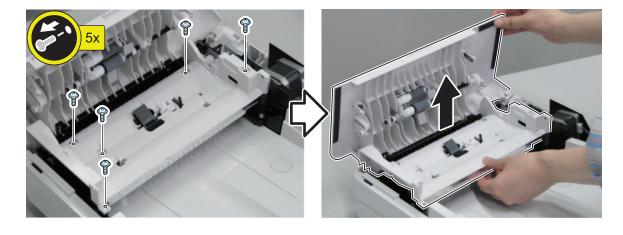


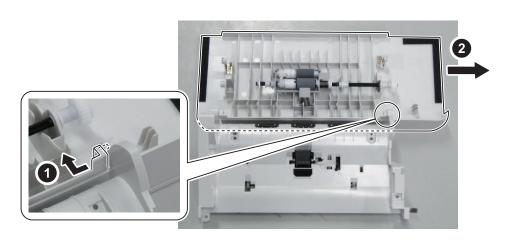


4.



5.





Removing the ADF Feed Unit

■ Preparation

1. "Removing the ADF Upper Cover Unit" on page 105

■ Procedure

1.

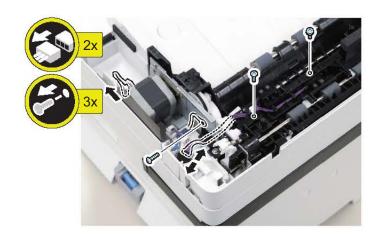


2.

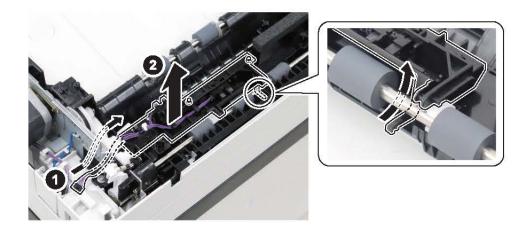


3_

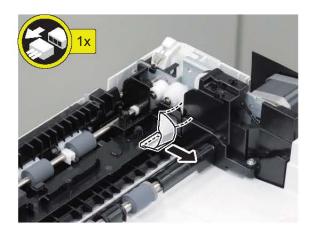


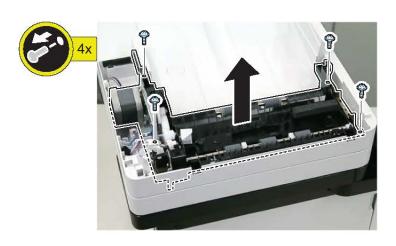


5.



6.

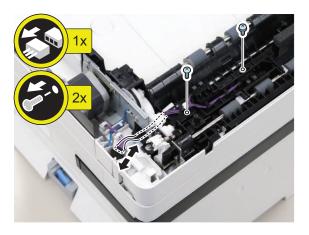




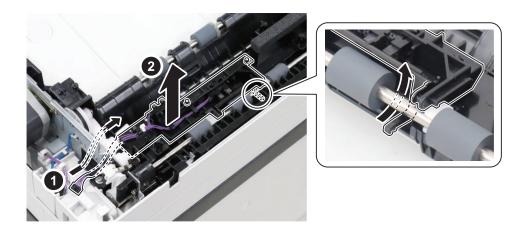
Removing the ADF CIS Unit

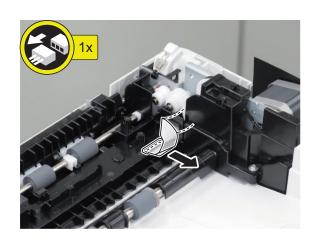
- Preparation
- 1. "Removing the ADF Upper Cover Unit" on page 105
- Procedure

1.

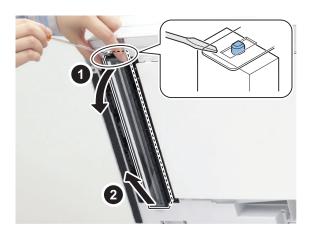


2.









CAUTION:

Because the spring is easy to come off, be careful about its loss.

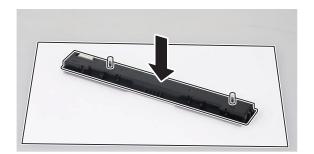


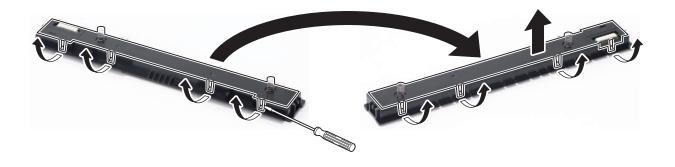
CAUTION:

When installing the ADF CIS Unit, be careful that the Guide Sheet does not get caught in the interior.



6.





CAUTION:

Do not touch the CIS sensor area of ADF with your hands, as doing so will attach skin oil on it and cause image failure such as lines from soiling.





9 Actions after replacement: "After Replacing the ADF CIS Unit" on page 174

Removing the ADF Drive Unit

■ Preparation

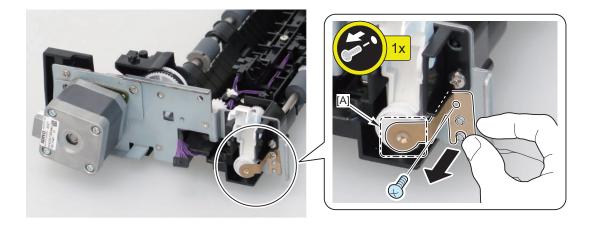
- 1. "Removing the ADF Upper Cover Unit" on page 105
- 2. "Removing the ADF Feed Unit" on page 107

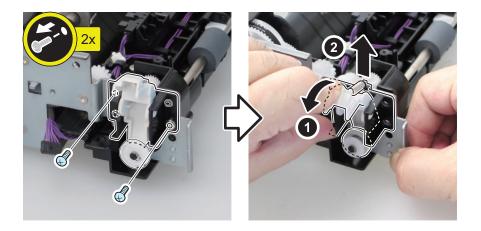
■ Procedure

1.

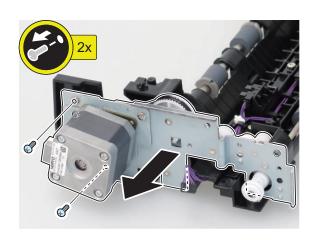
NOTE:

Be sure to avoid touching grease as grease is applied to the $\ensuremath{\mathsf{A}}$ part.



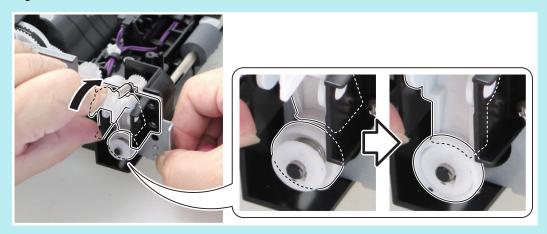


3.



NOTE:

When installing the ADF Drive Unit, mount the lever on the bush.



Removing the Reader Upper Cover Unit

■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Right Cover" on page 81
- 4. "Removing the ADF Unit + Reader Unit" on page 95
- 5. "Separating the ADF Unit + Reader Unit" on page 96

■ Procedure

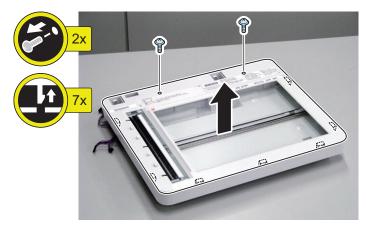
CAUTION:

Since the Copyboard Glass is included in the Reader Upper Cover Unit, replace the entire Reader Upper Cover Unit when replacing the Copyboard Glass.

1.

CAUTION:

Do not touch the Copyboard Glass with your hands, as doing so will attach skin oil on it and cause image failure from soiling. If soiling is attached, wipe it with lint-free paper moistened.



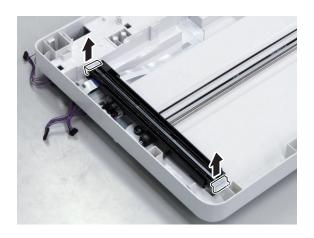
2 Actions after replacement: "After Replacing the Reader Upper Cover Unit" on page 168

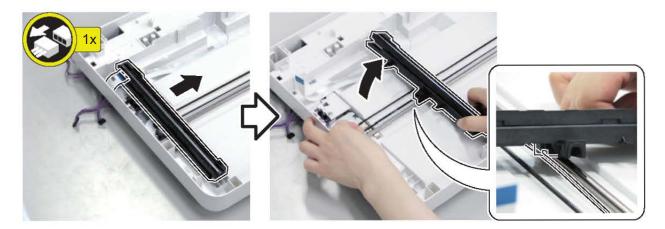
Removing the Reader CIS

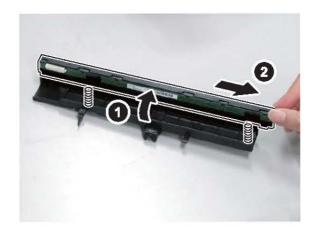
Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Right Cover" on page 81
- 4. "Removing the ADF Unit + Reader Unit" on page 95
- 5. "Separating the ADF Unit + Reader Unit" on page 96
- 6. "Removing the Reader Upper Cover Unit" on page 114

■ Procedure







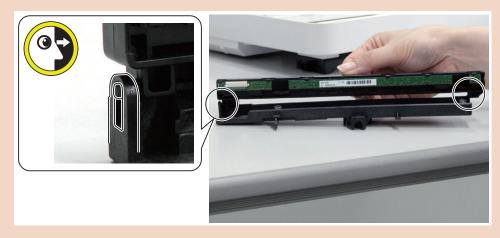
CAUTION:

Do not touch the sensor of the Reader CIS with your hands, as doing so will attach skin oil on it and cause image failure such as lines from soiling.



CAUTION:

When installing the Reader CIS, align the 2 shafts on the right and left, and confirm that the protrusions and grooves are properly fitted.



4 Actions after replacement: "After Replacing the Reader CIS Unit" on page 172

Removing the Reader CIS Timing Belt

■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Right Cover" on page 81
- 4. "Removing the ADF Unit + Reader Unit" on page 95
- 5. "Separating the ADF Unit + Reader Unit" on page 96
- 6. "Removing the Reader Upper Cover Unit" on page 114
- 7. "Removing the Reader CIS" on page 115

■ Procedure

■ Remove the [A] part of the belt from the gear.

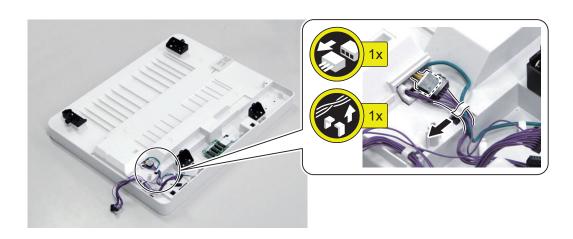


Removing the Reader Scanner Motor

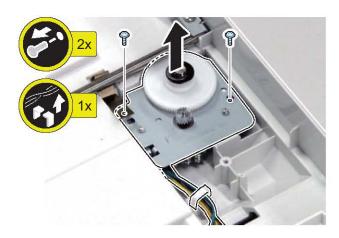
■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Right Cover" on page 81
- 4. "Removing the ADF Unit + Reader Unit" on page 95
- 5. "Separating the ADF Unit + Reader Unit" on page 96
- 6. "Removing the Reader Upper Cover Unit" on page 114
- 7. "Removing the Reader CIS" on page 115
- 8. "Removing the Reader CIS Timing Belt" on page 117

■ Procedure







Controller System

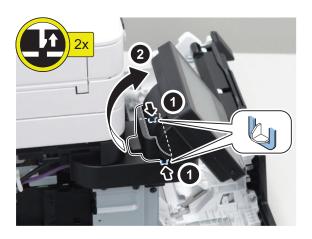
Removing the Control Panel Unit

■ Preparation

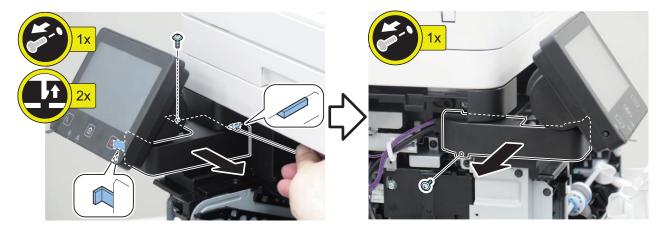
- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85

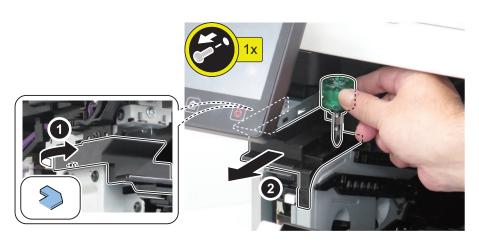
■ Procedure

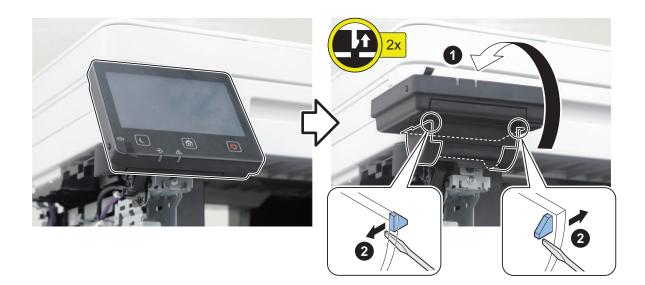
1.



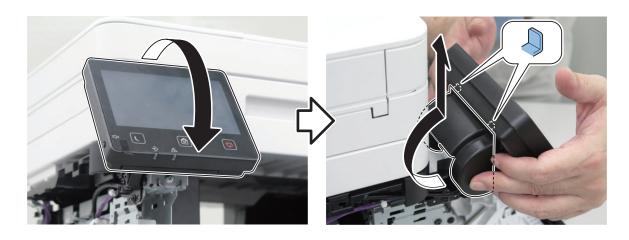
2.



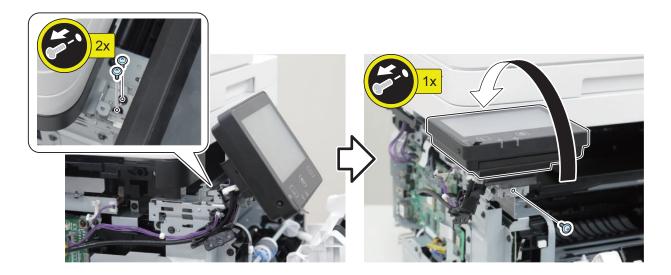




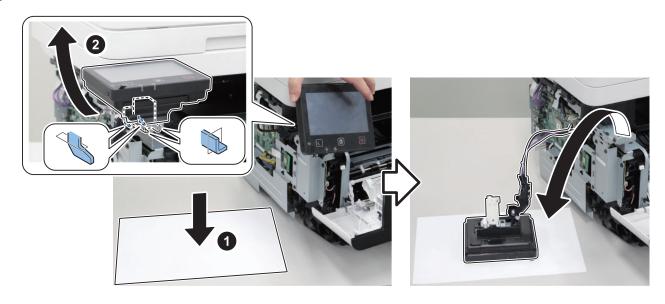
5.

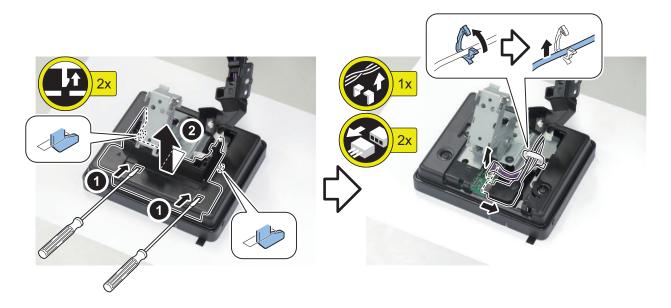






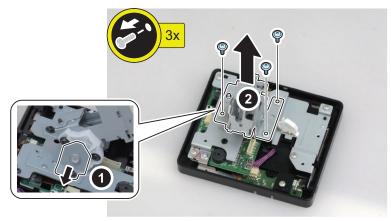
8.



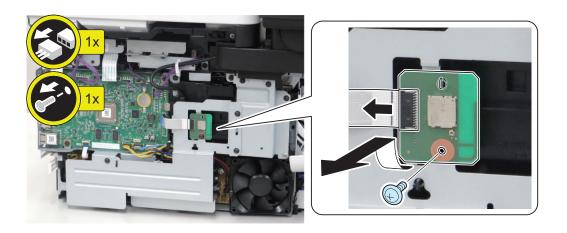




11.



- 12. Actions after replacement: "After Replacing the Control Panel" on page 153
 - Removing the Wireless LAN PCB
 - Preparation
 - 1. "Removing the Cartridge" on page 81
 - 2. "Removing the Left Cover" on page 85
 - **Procedure**



NOTE:

When installing, turn over the gloss surface of the Flat Cable to the front side facing upward.

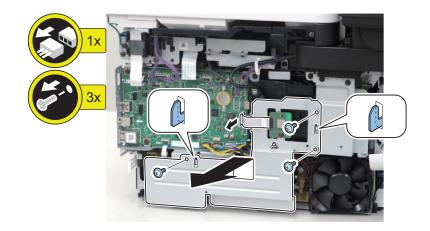
Removing the Wireless LAN Unit

■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85

■ Procedure

1.



NOTE:

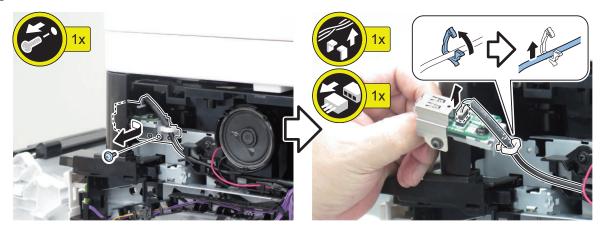
When installing, turn over the gloss surface of the Flat Cable to the front side facing upward.

Removing the USB Unit

■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Right Cover" on page 81

■ Procedure



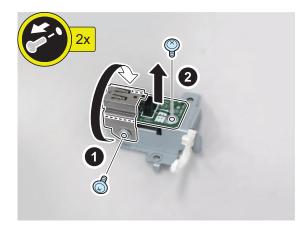
Removing the USB PCB

■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Right Cover" on page 81
- 3. "Removing the USB Unit" on page 124

■ Procedure

1.

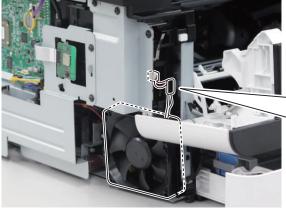


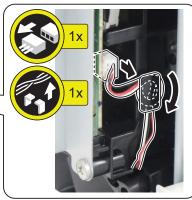
Removing the Main Fan

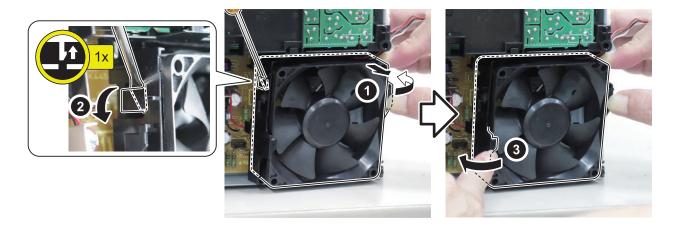
■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85

■ Procedure







NOTE:

When installing, install to 2 hooks at the lower side.



Removing the Main Controller PCB

■ Preparation

CAUTION:

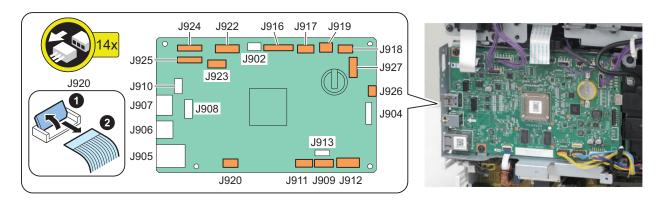
Make sure to perform Before Replacing the Main Controller PCB" on page 153 before replacing the Main Controller PCB.

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Wireless LAN Unit" on page 124

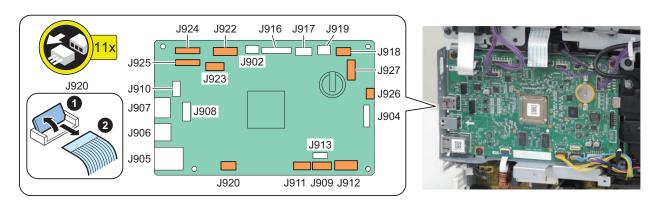
■ Procedure

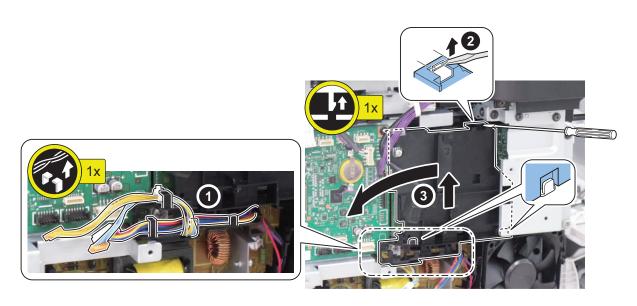
1.

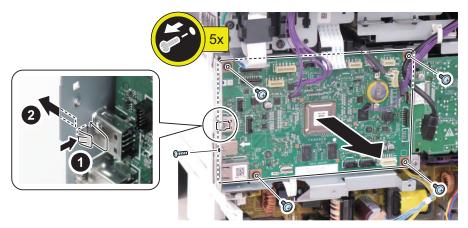
<MF429dw/MF429x>



<MF428x>







- 4 Actions after replacement: "After Replacing the Main Controller PCB" on page 153
 - Removing the Main Controller Unit

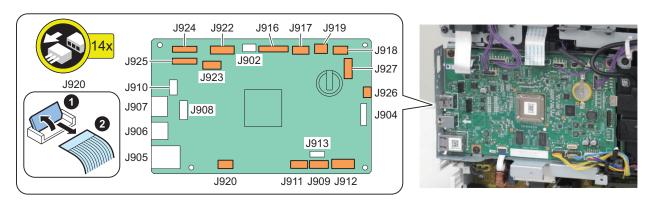
■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Wireless LAN Unit" on page 124

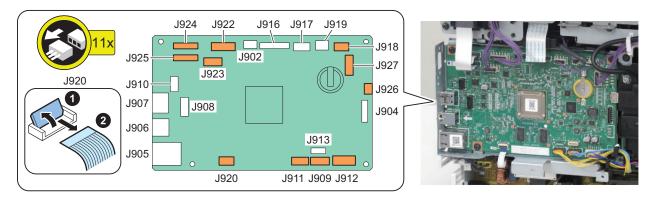
■ Procedure

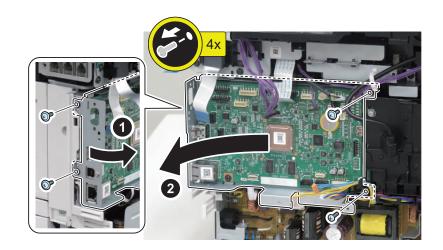
1.

<MF429dw/MF429x>



<MF428x>





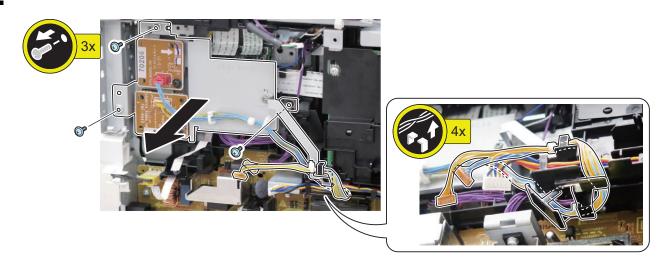
Removing the DC Controller PCB Cover

■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Wireless LAN Unit" on page 124
- 4. "Removing the Main Controller Unit" on page 128

■ Procedure

1.



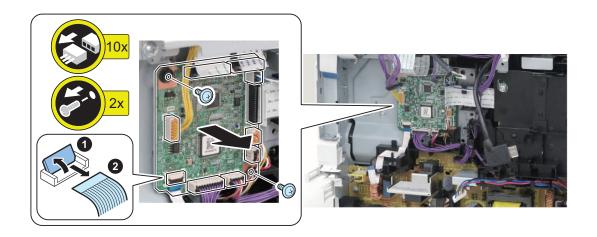
Remove the DC Controller PCB

■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Wireless LAN Unit" on page 124
- 4. "Removing the Main Controller Unit" on page 128
- 5. "Removing the DC Controller PCB Cover" on page 129

■ Procedure

1.

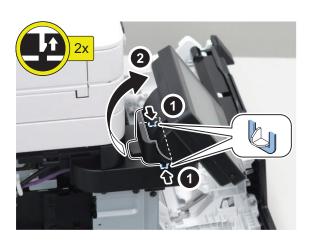


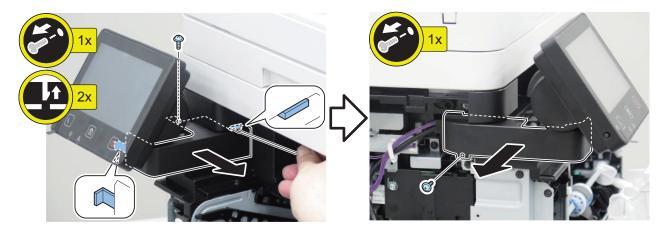
Removing the High Voltage Power Supply PCB

■ Preparation

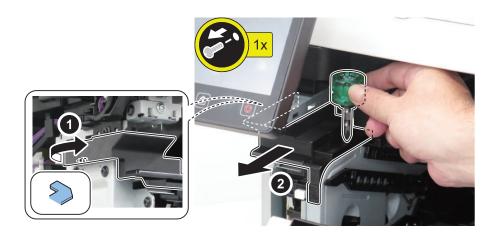
- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Wireless LAN Unit" on page 124
- 4. "Removing the Main Controller Unit" on page 128
- 5. "Removing the DC Controller PCB Cover" on page 129

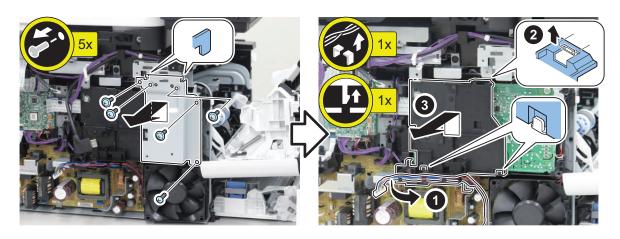
■ Procedure

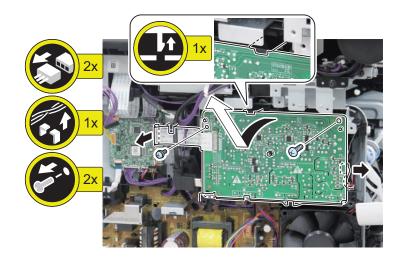




3.

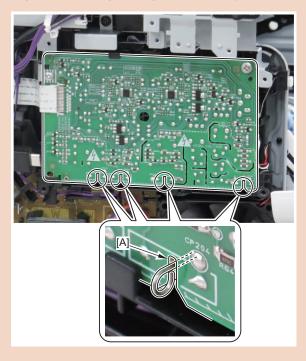






CAUTION:

When installing, make sure that the groove [A] of High Voltage Power Supply PCB and Contact Spring are in contact.



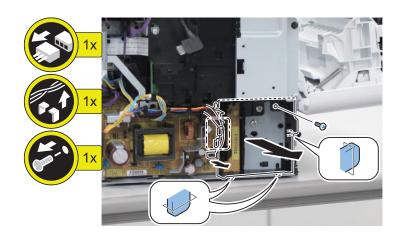
Removing the Low Voltage Power Supply Unit

■ Preparation

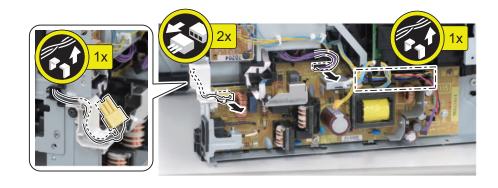
- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Left Rear Cover" on page 89
- 4. "Removing the Right Cover" on page 81
- 5. "Removing the Rear Door" on page 91
- 6. "Removing the Wireless LAN Unit" on page 124
- 7. "Removing the Main Controller Unit" on page 128
- 8. "Removing the Main Fan" on page 125

■ Procedure

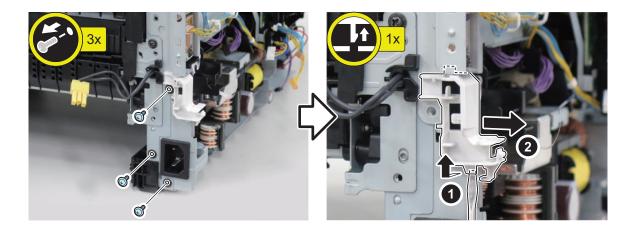
1.

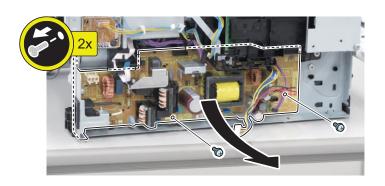


2.



3.





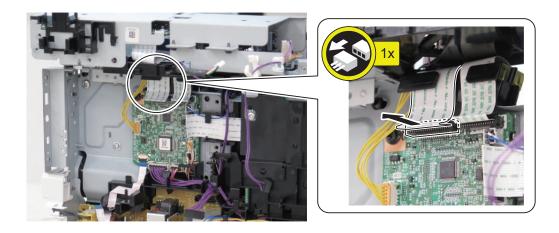
Removing the Relay PCB

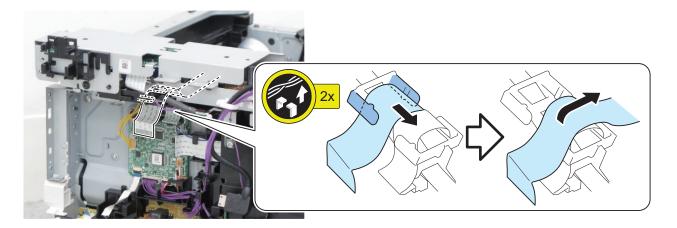
■ Preparation

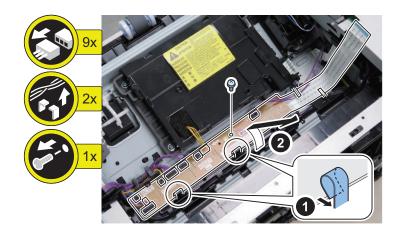
- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Cartridge Door" on page 90
- 3. "Removing the Left Cover" on page 85
- 4. "Removing the Right Cover" on page 81
- 5. "Removing the ADF Unit + Reader Unit" on page 95
- 6. "Removing the Upper Cover" on page 92
- 7. "Removing the Output Tray" on page 93
- 8. "Removing the Wireless LAN Unit" on page 124
- 9. "Removing the Main Controller Unit" on page 128
- 10. "Removing the DC Controller PCB Cover" on page 129

■ Procedure

1.







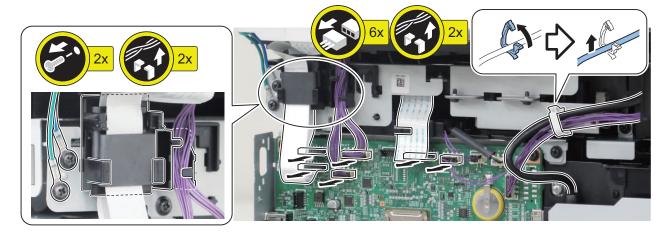
Removing the Fax Unit(Fax model only)

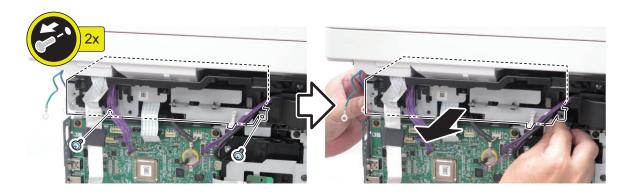
■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85

■ Procedure

1.



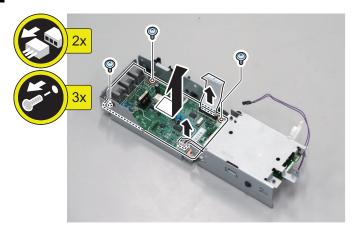


- Removing the FAX PCB(Fax model only)
- **■** Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Fax Unit(Fax model only)" on page 135

■ Procedure

1.



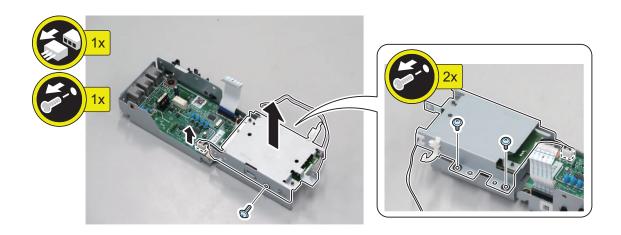
Removing the OFF Hook PCB(Fax model only)

■ Preparation

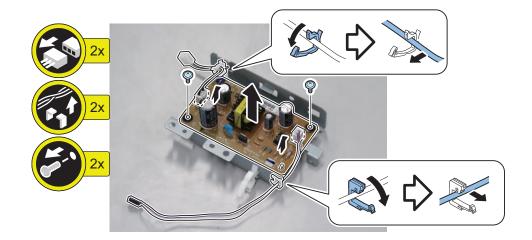
- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Fax Unit(Fax model only)" on page 135

■ Procedure

1.



2.



Removing the Speaker(Fax model only)

■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Right Cover" on page 81

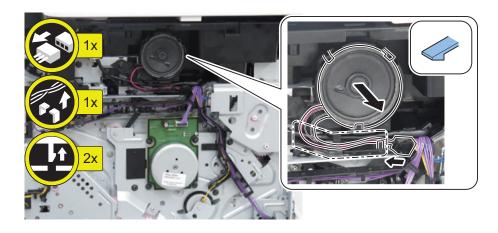
■ Procedure

1.

CAUTION:

- Do not directly touch the speaker of the Fax Unit.
- · Be sure not to damage the speaker.





Laser Exposure System

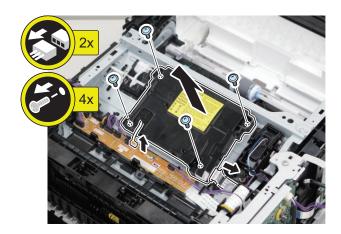
Removing the Laser Scanner Unit

■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Right Cover" on page 81
- 4. "Removing the Control Panel Unit" on page 120
- 5. "Removing the ADF Unit + Reader Unit" on page 95
- 6. "Removing the Upper Cover" on page 92
- 7. "Removing the Output Tray" on page 93

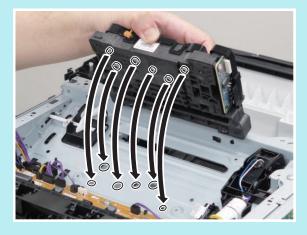
■ Procedure

1.



NOTE:

When installing, insert the bosses into the positioning holes, and check that the Laser Unit is correctly positioned.



NOTE:

When installing it, tighten the screws in the order of numbers in the illustration.



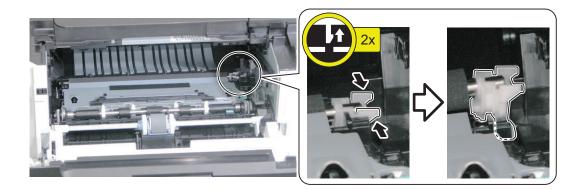
Image Formation System

- Removing the Transfer Roller
- **■** Preparation
- 1. "Removing the Cartridge" on page 81
- **■** Procedure

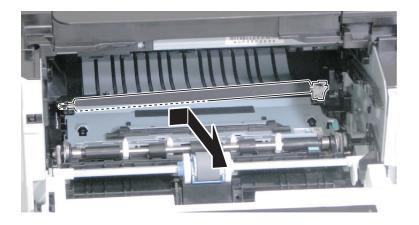
CAUTION:

Do not touch the surface of the roller with bare hands, as doing so will attach skin oil on it and decrease feedability.

1_

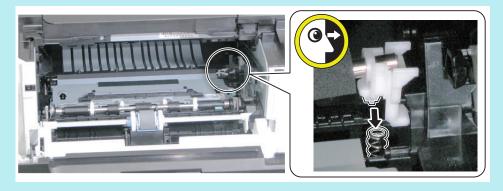


2.



NOTE:

Procedure for Installing the Transfer Roller. Be sure to fit the boss of the bushing to the spring.



Fixing System

Removing the Fixing Assembly

■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Left Cover" on page 85
- 3. "Removing the Left Rear Cover" on page 89
- 4. "Removing the Right Cover" on page 81
- 5. "Removing the Rear Door" on page 91

■ Procedure

A C

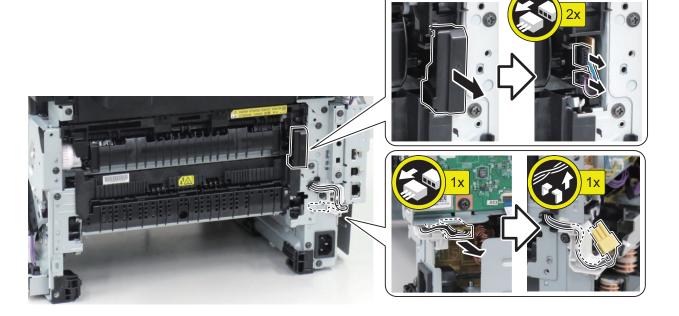
CAUTION:

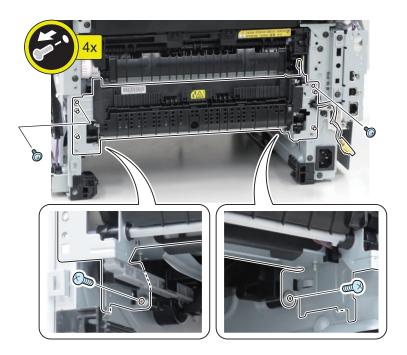
Since the Fixing Assembly is hot immediately after the power is turned OFF, give it time to cool down before removing it.

1

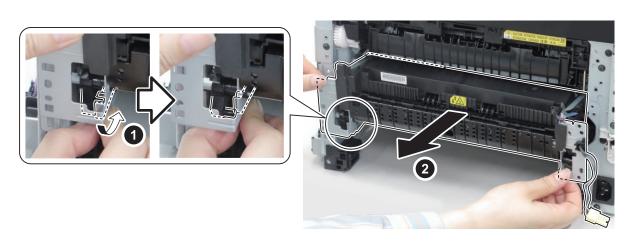


2





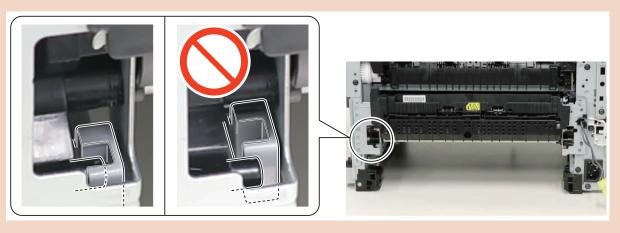
4.



CAUTION:

Points to Note when Installing the Link Arm.

Be sure to check that the Link Arm is installed properly, otherwise the Cartridge Cover cannot be closed.



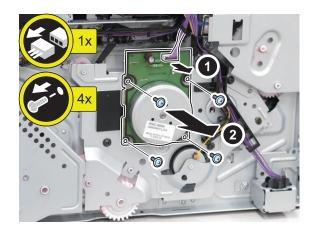
Removing the Fixing Motor

■ Preparation

- 1. "Removing the Cartridge" on page 81
- 2. "Removing the Right Cover" on page 81

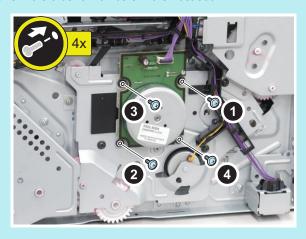
■ Procedure

1.



NOTE:

When installing it, tighten the screws in the order of numbers in the illustration.



Pickup Feed Delivery System

- Removing the Cassette Pickup Roller Unit.
- **■** Preparation
- 1. Remove the cassette.
- **■** Procedure

CAUTION:

Do not touch the surface of the roller with bare hands, as doing so will attach skin oil on it and decrease feedability.

1.



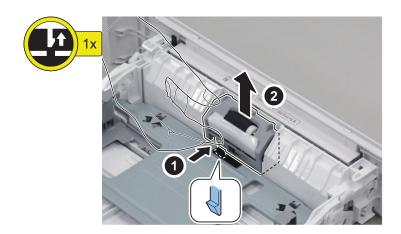
- Removing the Cassette Separation Roller Unit
- Preparation
- 1. Remove the cassette.

■ Procedure

CAUTION:

Do not touch the surface of the roller with bare hands, as doing so will attach skin oil on it and decrease feedability.

1.



Removing the MP Tray Pickup Roller Unit

■ Preparation

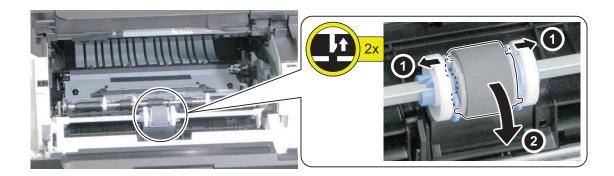
- 1. Remove the cassette.
- 2. "Removing the Cartridge" on page 81

■ Procedure

CAUTION:

Do not touch the surface of the roller with bare hands, as doing so will attach skin oil on it and decrease feedability.

1.



Removing the MP Tray Separation Pad

■ Preparation

- 1. Remove the cassette.
- 2. "Removing the Cartridge" on page 81

3. "Removing the MP Tray Pickup Roller Unit" on page 145

■ Procedure

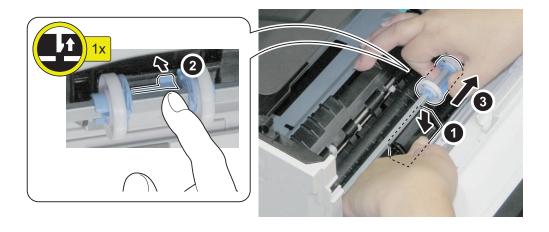
CAUTION:

Do not touch the surface of the roller with bare hands, as doing so will attach skin oil on it and decrease feedability.

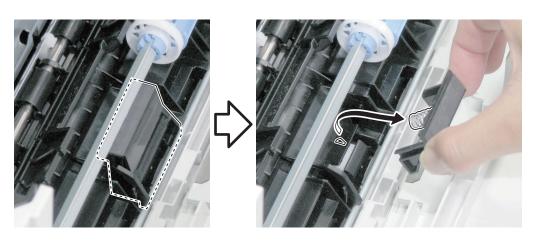
1



2.



3.



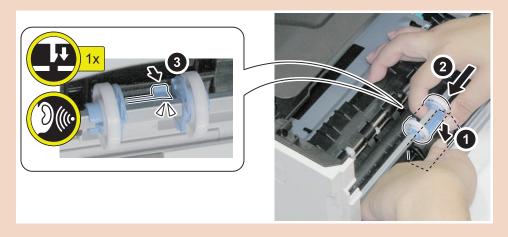
CAUTION:

Points to Note at Installation

• When installing it, be sure that the grooves on the left and right and the spring are fitted correctly.



• Be sure to slide the MP Tray Roller Holder until it clicks.



Removing the Registration Unit

■ Preparation

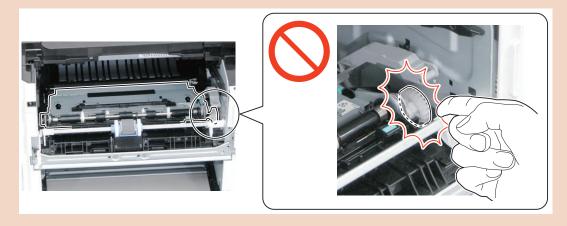
- 1. Remove the cassette.
- 2. "Removing the Cartridge" on page 81
- 3. "Removing the Cartridge Door" on page 90

■ Procedure

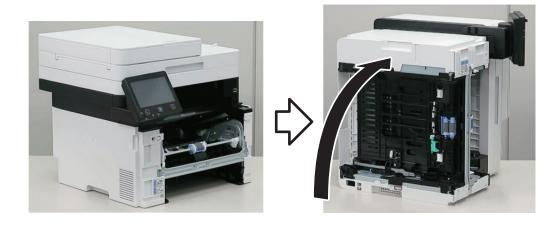
CAUTION:

Do not touch the Gear Unit of the Registration Unit.

Grease is applied on the Gear Unit. If you have accidentally touched grease, wipe with lint-free paper so as not to smear other parts with your greasy hand.



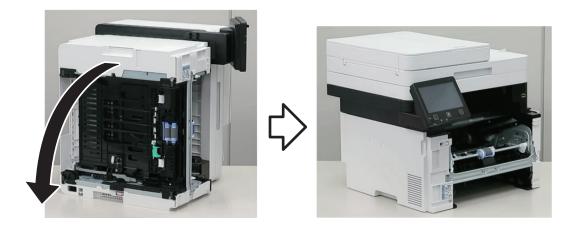
1.



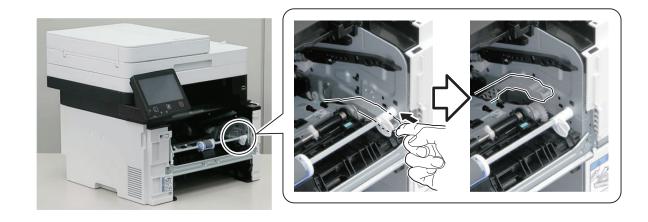
2.



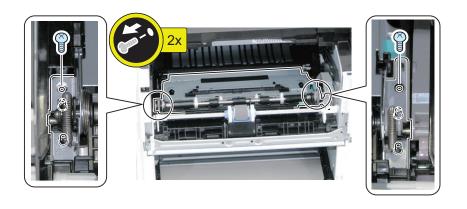
3.



4.



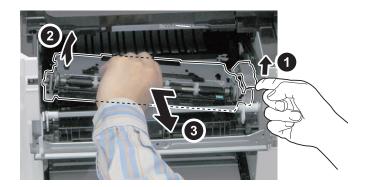
5.



6.



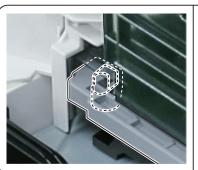
7.



CAUTION:

Points to Note when Installing the Link Arm.

Be sure to check that the Link Arm is installed properly, otherwise the Cartridge Cover cannot be closed.









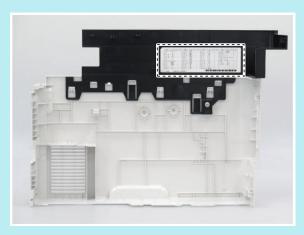
Adjustment

Checking the Location Where the	
Service Label Is Affixed	152
Adjustment at Parts Replacement	153

Checking the Location Where the Service Label Is Affixed

NOTE:

The service label is affixed on the inside of the Left Cover Unit.



Adjustment at Parts Replacement



After Replacing the Control Panel

- 1. Execute the following service modes and adjust the coordinate position of the Touch Panel.
 - COPIER > ADJUST > PANEL > TOUCHCHK
- 2. Check that the value of the following service mode is [1].
 - · COPIER > ADJUST > PANEL > TOUCH-R

CAUTION:

If the value has not changed to [1], perform the procedure from step 1 again.



Before Replacing the Main Controller PCB

The following setting values are recorded in the Main Controller PCB. When the Main Controller PCB is replaced, these setting values are all returned to the default unless they are restored.

- · User setting values
- · Service mode setting values

These setting values can be restored by performing backup by any of the following methods:

Refer to the Backup List for the details of items that are backed up. "Backup Data List" on page 333

- 1. Enter the service mode shown below, and change the setting value to [1].
 - COPIER > OPTION > USER > SMD-EXPT

NOTE:

The setting [SMD-EXPT] can be configured either from the Control Panel or remote UI.

- 2. These setting values can be restored by performing backup by any of the following methods:
 - COPIER > FUNCTION > SYSTEM > EXPORT
 - Menu > Management Settings > Data Management > Import/Export > Export
 - RUI > Settings/Registration > Management Settings > Data Management > Import/Export > Export

CAUTION:

- · Perform backup immediately before replacing the Main Controller PCB.
- When the Main Controller PCB is replaced, the user data, service data, and logs are initialized and the system manager ID and password are changed back to the default values (ID: 7654321 / PWD: 7654321).



After Replacing the Main Controller PCB

CAUTION:

The language displayed changes to English immediately after the replacement of the Main Controller PCB. Be sure to perform the following steps 1 to 5 in order to reflect the language of the country and the country-specific settings that had been configured before the replacement of the Main Controller PCB.

- 1. Turn ON the power of the host machine.
- 2. Enter service mode.

A Setup Guide screen (in English) for setting the time and date will appear. Forcibly open the service mode screen.

3. Location information setting

[Setting value]

1: Japan, 2: North America, 3: Korea, 4: China, 5: Taiwan, 6: Europe, 7: Asia, 8: Oceania, 9: Brazil, 10: Latin America

• COPIER > OPTION > BODY > LOCALE

4. Paper size configuration setting

[Setting value]

- 1: AB configuration, 2: Inch configuration, 3: A configuration, 4: AB/Inch configuration
 - COPIER > OPTION > BODY > SIZE-LC

5. Clear the setting information

• COPIER > FUNCTION > CLEAR > ALL

■ Clearing RCON Backup

- 1. Execute the following service mode to clear the backup data of RCON.
 - COPIER > FUNCTION > CLEAR > R-CON

■ Entering the XYZ Values

Entering the values shown on the service label

1. Enter the values shown on the service label in service mode.

```
<W-PLT-X>
```

• COPIER > ADJUST > CCD > W-PLT-X

<W-PLT-Y>

• COPIER > ADJUST > CCD > W-PLT-Y

<W-PLT-Z>

• COPIER > ADJUST > CCD > W-PLT-Z

Calculating the Target Value of B&W Shading

- 1. Turn OFF and then ON the power of the host machine, and then execute the following service mode.
 - COPIER > FUNCTION > CCD > BW-TGT

■ Entering the Value of the Stream Reading Position

Entering the value shown on the service label

- 1. Enter the value shown on the service label in service mode.
 - COPIER > ADJUST > ADJ-XY > STRD-POS

■ AGC Adjustment (Paper Front)

1. Enter a provisional value.

B&W mode

Change the values of the following service mode settings to 1,000.

- COPIER > ADJUST > CCD > LED-BW-R
- COPIER > ADJUST > CCD > LED-BW-G
- COPIER > ADJUST > CCD > LED-BW-B

Color mode

Change the values of the following service mode settings to 1,100.

- COPIER > ADJUST > CCD > LED-CL-R
- COPIER > ADJUST > CCD > LED-CL-G
- COPIER > ADJUST > CCD > LED-CL-B

2. Execute the following service mode.

CAUTION:

Be sure to close the ADF before executing the following service mode. Also be sure not to open the ADF while the service mode is being executed.

- COPIER > FUNCTION > CCD > BW-AGC
- COPIER > FUNCTION > CCD > CL-AGC

3. How to judge whether the operation was successful or failed

Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation was successful or failed.

B&W mode

Check the following values. If all of them remain at "1,000", the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > LED-BW-R
- COPIER > ADJUST > CCD > LED-BW-G
- COPIER > ADJUST > CCD > LED-BW-B

In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.

• COPIER > FUNCTION > CCD > BW-AGC

Color mode

Check the following values. If all of them remain at "1,100", the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > LED-CL-R
- COPIER > ADJUST > CCD > LED-CL-G
- COPIER > ADJUST > CCD > LED-CL-B

In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.

- COPIER > FUNCTION > CCD > CL-AGC
- 4. If the operation was "successful", this procedure is completed. (There is no need to write down the values on the service label.)

AGC Adjustment (Paper Back)

1. Enter a provisional value.

B&W mode

Change the values of the following service mode settings to 1,000.

- COPIER > ADJUST > CCD > LE-BWRBK
- COPIER > ADJUST > CCD > LE-BWGBK
- COPIER > ADJUST > CCD > LE-BWBBK

Color mode

Change the values of the following service mode settings to 1,100.

- COPIER > ADJUST > CCD > LE-CLRBK
- COPIER > ADJUST > CCD > LE-CLGBK
- COPIER > ADJUST > CCD > LE-CLBBK
- 2. Execute the following service mode.

CAUTION:

Be sure to close the ADF before executing the following service mode. Also be sure not to open the ADF while the service mode is being executed.

- COPIER > FUNCTION > CCD > BW-AGC2
- COPIER > FUNCTION > CCD > CL-AGC2

3. How to judge whether the operation was successful or failed

Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation was successful or failed.

B&W mode

Check the following values. If all of them remain at "1,000", the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > LE-BWRBK
- COPIER > ADJUST > CCD > LE-BWGBK
- COPIER > ADJUST > CCD > LE-BWBBK

In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.

• COPIER > FUNCTION > CCD > BW-AGC2

Color mode

Check the following values. If all of them remain at "1,100", the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > LE-CLRBK
- COPIER > ADJUST > CCD > LE-CLGBK
- COPIER > ADJUST > CCD > LE-CLBBK

In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.

- COPIER > FUNCTION > CCD > CL-AGC2
- 4. If the operation was "successful", this procedure is completed. (There is no need to write down the values on the service label.)

■ Paper Back Shading Initial Measurement

- 1. Execute the following service mode without placing anything on the Stream Reading Glass.
 - COPIER > FUNCTION > CCD > BK-SHD1
- 2. Place the Paper Back Shading Adjustment Member (FL1-4365) on the Stream Reading Glass, and execute the following service mode.

CAUTION:

Be sure to close the ADF before executing the following service mode. Also be sure not to open the ADF while the service mode is being executed.

• COPIER > FUNCTION > CCD > BK-SHD2



- 3. Check the following service mode to determine if it was [1] successful or [0] failed.
 - COPIER > FUNCTION > CCD > BK-SHDST

4. If it failed, clean the Stream Reading Glass and the Paper Back Shading Adjustment Member (FL1-4365), and perform the procedure from step 1 again.

■ DF White Level (DF Shading Target) Adjustment

In the case of entering the values shown on the service label

- 1. Enter the values shown on the service label in service mode.
 - COPIER > ADJUST > CCD > DFTAR-R
 - COPIER > ADJUST > CCD > DFTAR-G
 - COPIER > ADJUST > CCD > DFTAR-B
 - COPIER > ADJUST > CCD > DFTAR-BW
 - COPIER > ADJUST > CCD > DFTBK-R
 - COPIER > ADJUST > CCD > DFTBK-G
 - COPIER > ADJUST > CCD > DFTBK-B
 - COPIER > ADJUST > CCD > DFTBK-BW

■ Copyboard Color Displacement Offset Adjustment

In the case of entering the values shown on the service label

1. Enter the values shown on the service label in service mode.

NOTE:

To reduce the number of label items, the values of 100-xx and 50-xx are the same.

```
<100-RG>
```

- COPIER > ADJUST > CCD > 50-RG
- COPIER > ADJUST > CCD > 100-RG

<100-GB>

- COPIER > ADJUST > CCD > 50-GB
- COPIER > ADJUST > CCD > 100-GB

ADF (Front/Back) Color Displacement Offset Adjustment

1. Enter the values shown on the service label in service mode.

NOTE:

To reduce the number of label items, the values of 100DF-xx and 50DF-xx are the same.

```
<100-DF-RG>
```

- COPIER > ADJUST > CCD > 50DF-RG
- COPIER > ADJUST > CCD > 100DF-RG

<100-DF-GB>

- COPIER > ADJUST > CCD > 50DF-GB
- COPIER > ADJUST > CCD > 100DF-GB

<100DF2RG>

- COPIER > ADJUST > CCD > 50DF2RG
- COPIER > ADJUST > CCD > 100DF2RG

<100DF2GB>

- COPIER > ADJUST > CCD > 50DF2GB
- COPIER > ADJUST > CCD > 100D2GB

■ PASCAL Adjustment

In the case of entering the values shown on the service label

- 1. Enter the value shown on the service label in service mode.
 - COPIER > ADJUST > PASCAL > OFST-P-K

■ Copyboard Geometric Adjustment

In the case of entering the values shown on the service label

- 1. Enter the values shown on the service label in service mode.
 - COPIER > ADJUST > ADJ-XY > ADJ-X
 - COPIER > ADJUST > ADJ-XY > ADJ-Y
 - COPIER > ADJUST > ADJ-XY > ADJ-X-MG

■ ADF (Front/Back) Geometric Adjustment

In the case of entering the values shown on the service label

- 1. Enter the values shown on the service label in service mode.
 - COPIER > ADJUST > ADJ-XY > ADJ-Y-DF
 - COPIER > ADJUST > ADJ-XY > ADJY-DF2
 - FEEDER > ADJUST > DOCST
 - FEEDER > ADJUST > DOCST2
 - FEEDER > ADJUST > LA-SPEED
 - FEEDER > ADJUST > LA-SPD2

■ Entering the MFT Values

1. Enter the following values shown on the service label in the following locations in service mode.

NOTE

To reduce the number of label items, the setting values are the same.

- The values of MTF-M1, MTF-M4, and MTF-M7 are the same.
- The values of MTF-M2, MTF-M5, and MTF-M8 are the same.
- The values of MTF-M3, MTF-M6, and MTF-M9 are the same.

<MTF-M1>

- COPIER > ADJUST > CCD > MTF-M1
- COPIER > ADJUST > CCD > MTF-M4
- COPIER > ADJUST > CCD > MTF-M7

<MTF-M2>

- COPIER > ADJUST > CCD > MTF-M2
- COPIER > ADJUST > CCD > MTF-M5
- COPIER > ADJUST > CCD > MTF-M8

<MTF-M3>

- COPIER > ADJUST > CCD > MTF-M3
- COPIER > ADJUST > CCD > MTF-M6
- COPIER > ADJUST > CCD > MTF-M9

NOTE:

To reduce the number of label items, the setting values are the same.

- The values of MTF2-M1, MTF2-M4, and MTF2-M7 are the same.
- The values of MTF2-M2, MTF2-M5, and MTF2-M8 are the same.
- The values of MTF2-M3, MTF2-M6, and MTF2-M9 are the same.

<MTF2-M1>

- COPIER > ADJUST > CCD > MTF2-M1
- COPIER > ADJUST > CCD > MTF2-M4
- COPIER > ADJUST > CCD > MTF2-M7

<MTF2-M2>

- COPIER > ADJUST > CCD > MTF2-M2
- COPIER > ADJUST > CCD > MTF2-M5
- COPIER > ADJUST > CCD > MTF2-M8

<MTF2-M3>

- COPIER > ADJUST > CCD > MTF2-M3
- COPIER > ADJUST > CCD > MTF2-M6
- COPIER > ADJUST > CCD > MTF2-M9

NOTE:

To reduce the number of label items, the setting values are the same.

- The values of MTF3-M1, MTF3-M4, and MTF3-M7 are the same.
- The values of MTF3-M2, MTF3-M5, and MTF3-M8 are the same.
- The values of MTF3-M3, MTF3-M6, and MTF3-M9 are the same.

<MTF3-M1>

- COPIER > ADJUST > CCD > MTF3-M1
- COPIER > ADJUST > CCD > MTF3-M4
- COPIER > ADJUST > CCD > MTF3-M7

<MTF3-M2>

- COPIER > ADJUST > CCD > MTF3-M2
- COPIER > ADJUST > CCD > MTF3-M5
- COPIER > ADJUST > CCD > MTF3-M8

<MTF3-M3>

- COPIER > ADJUST > CCD > MTF3-M3
- COPIER > ADJUST > CCD > MTF3-M6
- COPIER > ADJUST > CCD > MTF3-M9

NOTE:

To reduce the number of label items, the setting values are the same.

- The values of MTF-S1, MTF-S4, and MTF-S7 are the same.
- The values of MTF-S2, MTF-S5, and MTF-S8 are the same.
- The values of MTF-S3, MTF-S6, and MTF-S9 are the same.

<MTF-S1>

- COPIER > ADJUST > CCD > MTF-S1
- COPIER > ADJUST > CCD > MTF-S4
- COPIER > ADJUST > CCD > MTF-S7

<MTF-S2>

- COPIER > ADJUST > CCD > MTF-S2
- COPIER > ADJUST > CCD > MTF-S5
- COPIER > ADJUST > CCD > MTF-S8

<MTF-S3>

- COPIER > ADJUST > CCD > MTF-S3
- COPIER > ADJUST > CCD > MTF-S6
- COPIER > ADJUST > CCD > MTF-S9

NOTE:

To reduce the number of label items, the setting values are the same.

- The values of MTF2-S1, MTF2-S4, and MTF2-S7 are the same.
- The values of MTF2-S2, MTF2-S5, and MTF2-S8 are the same.
- The values of MTF2-S3, MTF2-S6, and MTF2-S9 are the same.

<MTF2-S1>

- COPIER > ADJUST > CCD > MTF2-S1
- COPIER > ADJUST > CCD > MTF2-S4
- COPIER > ADJUST > CCD > MTF2-S7

<MTF2-S2>

- COPIER > ADJUST > CCD > MTF2-S2
- COPIER > ADJUST > CCD > MTF2-S5
- COPIER > ADJUST > CCD > MTF2-S8

<MTF2-S3>

- COPIER > ADJUST > CCD > MTF2-S3
- COPIER > ADJUST > CCD > MTF2-S6
- COPIER > ADJUST > CCD > MTF2-S9

NOTE:

To reduce the number of label items, the setting values are the same.

- The values of MTF3-S1, MTF3-S4, and MTF3-S7 are the same.
- The values of MTF3-S2, MTF3-S5, and MTF3-S8 are the same.
- The values of MTF3-S3, MTF3-S6, and MTF3-S9 are the same.

<MTF3-S1>

- COPIER > ADJUST > CCD > MTF3-S1
- COPIER > ADJUST > CCD > MTF3-S4
- COPIER > ADJUST > CCD > MTF3-S7

<MTF3-S2>

- COPIER > ADJUST > CCD > MTF3-S2
- COPIER > ADJUST > CCD > MTF3-S5
- COPIER > ADJUST > CCD > MTF3-S8

<MTF3-S3>

- COPIER > ADJUST > CCD > MTF3-S3
- COPIER > ADJUST > CCD > MTF3-S6
- COPIER > ADJUST > CCD > MTF3-S9

■ Entering the Linearity Correction Values

- 1. Enter the values shown on the service label in service mode.
 - COPIER > ADJUST > CCD > LNR-GA-R
 - COPIER > ADJUST > CCD > LNR-GA-G
 - COPIER > ADJUST > CCD > LNR-GA-B
 - COPIER > ADJUST > CCD > LNR-OF-R
 - COPIER > ADJUST > CCD > LNR-OF-G
 - COPIER > ADJUST > CCD > LNR-OF-B

■ Executing Initial Adjustment

- 1. To set the wireless LAN function, enter the service mode shown below and change the setting value to [1]. (In the case of the host machine having the wireless LAN function)
 - COPIER > OPTION > ACC > WLAN
- 2. Setup Guide will be activated by turning OFF and then ON the power of the host machine. Configure the settings according to the instruction on the screen.
- 3. In the following service mode, adjust the Touch Panel.
 - COPIER > ADJUST > PANEL > TOUCHCHK

■ Migrating the User Data and Service Mode Setting Information

- 1. Enter service mode, and set the following item to [1].
 - COPIER > OPTION > USER > SMD-EXPT

NOTE:

The setting [SMD-EXPT] can be configured either from the Control Panel or remote UI.

2. Restore the data in the same way as that of backup.

Refer to the Backup List for the details of items that are restored. "Backup Data List" on page 333

- COPIER > FUNCTION > SYSTEM > IMPORT
- Menu > Management Settings > Data Management > Import/Export > Import
- RUI > Settings/Registration > Management Settings > Data Management > Import/Export > Import

CAUTION:

Be sure to restore the data after replacing the Main Controller PCB.

3. Enter service mode, and set the following item to [0].

COPIER > OPTION > USER > SMD-EXPT

NOTE:

The setting [SMD-EXPT] can be configured either from the Control Panel or remote UI.

■ Reinstalling the Drivers (Only When the MFNP Port Is Used)

NOTE:

- In the case of setting the print port in a TCP/IP environment, the drivers do not need to be reinstalled. Refer to "Setting Up the Network Environment" in the User's Guide, and set up the network environment again.
- The print port being used is shown in Control Panel > Hardware and Sound > Devices and Printers > "Printer Properties" of the printer used.

1. Uninstall the following drivers on the user's PC.

- · Printer driver
- · Fax driver
- · Scanner driver
- · MF Scan Utility

2. Refer to the following items in Getting Started and install the drivers that were uninstalled.

- · In case of network connection: "To connect via wired LAN"
- In case of USB connection: "To connect via USB"

NOTE:

When the MFNP port is used, the MAC address information changes after replacement of the Main Controller PCB. Therefore, when the PC and the machine are connected by the network, the PC will not be able to recognize the machine on the network. When the PC and the machine are connected by USB, the PC will not be able to recognize the machine if the USB ID is changed. That is why the drivers need to be reinstalled.

After Replacing the Reader Unit

■ Entering the XYZ Values

Entering the values shown on the barcode label

1. Check the setting value of the Standard White Plate.



2. After entering the X, Y, and Z values shown on the barcode on the Copyboard Glass in the following service mode items, and then write the entered values (the X, Y, and Z values shown on the barcode on the Copyboard Glass) on the service label.

NOTE:

The value of W-PLT-X: The first four digits of the value on the label The value of W-PLT-Y: The four digits in the middle of the value on the label The value of W-PLT-Z: The last four digits of the value on the label

■ Calculating the Target Value of B&W Shading

- 1. Turn OFF and then ON the power of the host machine, and then execute the following service mode.
 - COPIER > FUNCTION > CCD > BW-TGT

■ Entering the Value of the Stream Reading Position

In the case of entering a provisional value

1. Enter a provisional value.

Change the value of the following service mode setting to -20.

- COPIER > ADJUST > ADJ-XY > STRD-POS
- 2. Execute the following service mode.

CAUTION:

Be sure to close the ADF before executing the following service mode. Also be sure not to open the ADF while the service mode is being executed.

• COPIER > FUNCTION > INSTALL > STRD-POS

3. How to judge whether the operation was successful or failed

Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation was successful or failed.

Check the following value. If it remains at "-20", the operation result is judged to be "failed".

- COPIER > ADJUST > ADJ-XY > STRD-POS
- 4. In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.
 - COPIER > FUNCTION > INSTALL > STRD-POS
- 5. If the operation was "successful", write down the following value on the service label.
 - COPIER > ADJUST > ADJ-XY > STRD-POS

AGC Adjustment (Paper Front)

1. Enter a provisional value.

B&W mode

Change the values of the following service mode settings to 1,000.

- COPIER > ADJUST > CCD > LED-BW-R
- COPIER > ADJUST > CCD > LED-BW-G
- COPIER > ADJUST > CCD > LED-BW-B

Color mode

Change the values of the following service mode settings to 1,100.

- COPIER > ADJUST > CCD > LED-CL-R
- COPIER > ADJUST > CCD > LED-CL-G
- COPIER > ADJUST > CCD > LED-CL-B
- 2. Execute the following service mode.

CAUTION:

Be sure to close the ADF before executing the following service mode. Also be sure not to open the ADF while the service mode is being executed.

- COPIER > FUNCTION > CCD > BW-AGC
- COPIER > FUNCTION > CCD > CL-AGC

3. How to judge whether the operation was successful or failed

Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation was successful or failed.

B&W mode

Check the following values. If all of them remain at "1,000", the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > LED-BW-R
- COPIER > ADJUST > CCD > LED-BW-G
- COPIER > ADJUST > CCD > LED-BW-B

In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.

• COPIER > FUNCTION > CCD > BW-AGC

Color mode

Check the following values. If all of them remain at "1,100", the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > LED-CL-R
- COPIER > ADJUST > CCD > LED-CL-G
- COPIER > ADJUST > CCD > LED-CL-B

In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.

- COPIER > FUNCTION > CCD > CL-AGC
- 4. If the operation was "successful", this procedure is completed. (There is no need to write down the values on the service label.)

■ AGC Adjustment (Paper Back)

1. Enter a provisional value.

B&W mode

Change the values of the following service mode settings to 1,000.

- COPIER > ADJUST > CCD > LE-BWRBK
- COPIER > ADJUST > CCD > LE-BWGBK
- COPIER > ADJUST > CCD > LE-BWBBK

Color mode

Change the values of the following service mode settings to 1,100.

- COPIER > ADJUST > CCD > LE-CLRBK
- COPIER > ADJUST > CCD > LE-CLGBK
- COPIER > ADJUST > CCD > LE-CLBBK
- 2. Execute the following service mode.

CAUTION:

Be sure to close the ADF before executing the following service mode. Also be sure not to open the ADF while the service mode is being executed.

- COPIER > FUNCTION > CCD > BW-AGC2
- COPIER > FUNCTION > CCD > CL-AGC2

3. How to judge whether the operation was successful or failed

Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation was successful or failed.

B&W mode

Check the following values. If all of them remain at "1,000", the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > LE-BWRBK
- COPIER > ADJUST > CCD > LE-BWGBK
- COPIER > ADJUST > CCD > LE-BWBBK

In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.

• COPIER > FUNCTION > CCD > BW-AGC2

Color mode

Check the following values. If all of them remain at "1,100", the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > LE-CLRBK
- COPIER > ADJUST > CCD > LE-CLGBK
- COPIER > ADJUST > CCD > LE-CLBBK

In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.

- COPIER > FUNCTION > CCD > CL-AGC2
- 4. If the operation was "successful", this procedure is completed. (There is no need to write down the values on the service label.)

■ Paper Back Shading Initial Measurement

- 1. Execute the following service mode without placing anything on the Stream Reading Glass.
 - COPIER > FUNCTION > CCD > BK-SHD1

2. Place the Paper Back Shading Adjustment Member (FL1-4365) on the Stream Reading Glass, and execute the following service mode.

CAUTION:

Be sure to close the ADF before executing the following service mode. Also be sure not to open the ADF while the service mode is being executed.

• COPIER > FUNCTION > CCD > BK-SHD2



- 3. Check the following service mode to determine if it was [1] successful or [0] failed.
 - COPIER > FUNCTION > CCD > BK-SHDST
- 4. If it failed, clean the Stream Reading Glass and the Paper Back Shading Adjustment Member (FL1-4365), and perform the procedure from step 1 again.

■ DF White Level (DF Shading Target) Adjustment

In the case of entering a provisional value

- 1. Change the values of the following service mode settings to 299.
 - COPIER > ADJUST > CCD > DFTAR-R
 - COPIER > ADJUST > CCD > DFTBK-R

Change the values of the following service mode settings to 309.

- COPIER > ADJUST > CCD > DFTAR-G
- COPIER > ADJUST > CCD > DFTBK-G

Change the values of the following service mode settings to 307.

- COPIER > ADJUST > CCD > DFTAR-B
- COPIER > ADJUST > CCD > DFTBK-B

Change the values of the following service mode settings to 315.

- COPIER > ADJUST > CCD > DFTAR-BW
- COPIER > ADJUST > CCD > DFTBK-BW
- 2. Place an A4 or LTR size paper on the Copyboard Glass and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL1
- 3. Place an A4 or LTR size paper on the ADF and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL2

4. How to judge whether the operation was successful or failed

Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation was successful or failed.

Check the following values, and if all the values remain the same as those you entered, the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > DFTBK-R
- COPIER > ADJUST > CCD > DFTBK-G
- COPIER > ADJUST > CCD > DFTBK-B
- COPIER > ADJUST > CCD > DFTBK-BW
- 5. In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.
 - COPIER > FUNCTION > CCD > DF-WLVL1
 - COPIER > FUNCTION > CCD > DF-WLVL2
- 6. If the operation was "successful", write the entered values on the service label.

■ Copyboard Color Displacement Offset Adjustment

In the case of entering the values shown on the replacement label

1. Enter the values shown on the replacement label in service mode.

NOTE:

To reduce the number of label items, the values of 100-xx and 50-xx are the same.

<100-RG>

- COPIER > ADJUST > CCD > 50-RG
- COPIER > ADJUST > CCD > 100-RG

<100-GB>

- COPIER > ADJUST > CCD > 50-GB
- COPIER > ADJUST > CCD > 100-GB
- 2. Write the entered values on the service label.

■ PASCAL Adjustment

In the case of entering the values shown on the replacement label

- 1. Enter the values shown on the replacement label in service mode.
 - COPIER > ADJUST > PASCAL > OFST-P-K
- 2. Write the entered values on the service label.

Copyboard Geometric Adjustment

In the case of manual adjustment

1. On an image copied using the reader, check the non-image width in the X and Y directions and the expansion/contraction in the X direction.

If adjustment is necessary, adjust the values of the following service mode settings.

- COPIER > ADJUST > ADJ-XY > ADJ-X
- COPIER > ADJUST > ADJ-XY > ADJ-Y
- COPIER > ADJUST > ADJ-XY > ADJ-X-MG
- 2. Write the entered values on the service label.

■ ADF (Front/Back) Geometric Adjustment

In the case of manual adjustment

1. On an image duplex copied using the ADF, check the non-image width in the X and Y directions and the expansion/contraction in the X direction.

If adjustment is necessary, adjust the values of the following service mode settings.

- COPIER > ADJUST > ADJ-XY > ADJ-Y-DF
- COPIER > ADJUST > ADJ-XY > ADJY-DF2
- FEEDER > ADJUST > DOCST
- FEEDER > ADJUST > DOCST2
- FEEDER > ADJUST > LA-SPEED
- FEEDER > ADJUST > LA-SPD2
- 2. Write the entered values on the service label.

After Replacing the ADF Unit

■ DF White Level (DF Shading Target) Adjustment

In the case of entering a provisional value

- 1. Change the values of the following service mode settings to 299.
 - COPIER > ADJUST > CCD > DFTAR-R
 - COPIER > ADJUST > CCD > DFTBK-R

Change the values of the following service mode settings to 309.

- COPIER > ADJUST > CCD > DFTAR-G
- COPIER > ADJUST > CCD > DFTBK-G

Change the values of the following service mode settings to 307.

- COPIER > ADJUST > CCD > DFTAR-B
- · COPIER > ADJUST > CCD > DFTBK-B

Change the values of the following service mode settings to 315.

- COPIER > ADJUST > CCD > DFTAR-BW
- COPIER > ADJUST > CCD > DFTBK-BW
- 2. Place an A4 or LTR size paper on the Copyboard Glass and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL1
- 3. Place an A4 or LTR size paper on the ADF and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL2
- 4. How to judge whether the operation was successful or failed

Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation was successful or failed.

Check the following values, and if all the values remain the same as those you entered, the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > DFTBK-R
- COPIER > ADJUST > CCD > DFTBK-G
- COPIER > ADJUST > CCD > DFTBK-B
- COPIER > ADJUST > CCD > DFTBK-BW
- 5. In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.
 - COPIER > FUNCTION > CCD > DF-WLVL1
 - COPIER > FUNCTION > CCD > DF-WLVL2
- 6. If the operation was "successful", write the entered values on the service label.

ADF (Front/Back) Geometric Adjustment

In the case of manual adjustment

1. On an image duplex copied using the ADF, check the non-image width in the X and Y directions and the expansion/contraction in the X direction.

If adjustment is necessary, adjust the values of the following service mode settings.

- COPIER > ADJUST > ADJ-XY > ADJ-Y-DF
- COPIER > ADJUST > ADJ-XY > ADJY-DF2
- FEEDER > ADJUST > DOCST
- FEEDER > ADJUST > DOCST2
- FEEDER > ADJUST > LA-SPEED
- FEEDER > ADJUST > LA-SPD2
- 2. Write the entered values on the service label.

After Replacing the Reader Upper Cover Unit

■ Entering the XYZ Values

Entering the values shown on the barcode label

1. Check the setting value of the Standard White Plate.



2. After entering the X, Y, and Z values shown on the barcode on the Copyboard Glass in the following service mode items, and then write the entered values (the X, Y, and Z values shown on the barcode on the Copyboard Glass) on the service label.

NOTE:

The value of W-PLT-X: The first four digits of the value on the label The value of W-PLT-Y: The four digits in the middle of the value on the label The value of W-PLT-Z: The last four digits of the value on the label

■ Calculating the Target Value of B&W Shading

- 1. Turn OFF and then ON the power of the host machine, and then execute the following service mode.
 - COPIER > FUNCTION > CCD > BW-TGT

■ Entering the Value of the Stream Reading Position

In the case of entering a provisional value

1. Enter a provisional value.

Change the value of the following service mode setting to -20.

• COPIER > ADJUST > ADJ-XY > STRD-POS

2. Execute the following service mode.

CAUTION:

Be sure to close the ADF before executing the following service mode. Also be sure not to open the ADF while the service mode is being executed.

- COPIER > FUNCTION > INSTALL > STRD-POS
- 3. How to judge whether the operation was successful or failed

Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation was successful or failed.

Check the following value. If it remains at "-20", the operation result is judged to be "failed".

- COPIER > ADJUST > ADJ-XY > STRD-POS
- 4. In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.
 - COPIER > FUNCTION > INSTALL > STRD-POS
- 5. If the operation was "successful", write down the following value on the service label.
 - COPIER > ADJUST > ADJ-XY > STRD-POS

■ AGC Adjustment (Paper Front)

1. Enter a provisional value.

B&W mode

Change the values of the following service mode settings to 1,000.

- COPIER > ADJUST > CCD > LED-BW-R
- COPIER > ADJUST > CCD > LED-BW-G
- COPIER > ADJUST > CCD > LED-BW-B

Color mode

Change the values of the following service mode settings to 1,100.

- COPIER > ADJUST > CCD > LED-CL-R
- COPIER > ADJUST > CCD > LED-CL-G
- COPIER > ADJUST > CCD > LED-CL-B
- 2. Execute the following service mode.

CAUTION

Be sure to close the ADF before executing the following service mode. Also be sure not to open the ADF while the service mode is being executed.

- COPIER > FUNCTION > CCD > BW-AGC
- COPIER > FUNCTION > CCD > CL-AGC
- 3. How to judge whether the operation was successful or failed

Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation was successful or failed.

B&W mode

Check the following values. If all of them remain at "1,000", the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > LED-BW-R
- COPIER > ADJUST > CCD > LED-BW-G
- COPIER > ADJUST > CCD > LED-BW-B

In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.

• COPIER > FUNCTION > CCD > BW-AGC

Color mode

Check the following values. If all of them remain at "1,100", the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > LED-CL-R
- COPIER > ADJUST > CCD > LED-CL-G
- COPIER > ADJUST > CCD > LED-CL-B

In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.

• COPIER > FUNCTION > CCD > CL-AGC

4. If the operation was "successful", this procedure is completed. (There is no need to write down the values on the service label.)

■ AGC Adjustment (Paper Back)

1. Enter a provisional value.

B&W mode

Change the values of the following service mode settings to 1,000.

- COPIER > ADJUST > CCD > LE-BWRBK
- COPIER > ADJUST > CCD > LE-BWGBK
- COPIER > ADJUST > CCD > LE-BWBBK

Color mode

Change the values of the following service mode settings to 1,100.

- COPIER > ADJUST > CCD > LE-CLRBK
- COPIER > ADJUST > CCD > LE-CLGBK
- COPIER > ADJUST > CCD > LE-CLBBK
- 2. Execute the following service mode.

CAUTION:

Be sure to close the ADF before executing the following service mode. Also be sure not to open the ADF while the service mode is being executed.

- COPIER > FUNCTION > CCD > BW-AGC2
- COPIER > FUNCTION > CCD > CL-AGC2
- 3. How to judge whether the operation was successful or failed

Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation was successful or failed.

B&W mode

Check the following values. If all of them remain at "1,000", the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > LE-BWRBK
- COPIER > ADJUST > CCD > LE-BWGBK
- COPIER > ADJUST > CCD > LE-BWBBK

In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.

• COPIER > FUNCTION > CCD > BW-AGC2

Color mode

Check the following values. If all of them remain at "1,100", the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > LE-CLRBK
- COPIER > ADJUST > CCD > LE-CLGBK
- COPIER > ADJUST > CCD > LE-CLBBK

In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.

- COPIER > FUNCTION > CCD > CL-AGC2
- 4. If the operation was "successful", this procedure is completed. (There is no need to write down the values on the service label.)

■ Paper Back Shading Initial Measurement

- 1. Execute the following service mode without placing anything on the Stream Reading Glass.
 - COPIER > FUNCTION > CCD > BK-SHD1

2. Place the Paper Back Shading Adjustment Member (FL1-4365) on the Stream Reading Glass, and execute the following service mode.

CAUTION:

Be sure to close the ADF before executing the following service mode. Also be sure not to open the ADF while the service mode is being executed.

• COPIER > FUNCTION > CCD > BK-SHD2



- 3. Check the following service mode to determine if it was [1] successful or [0] failed.
 - COPIER > FUNCTION > CCD > BK-SHDST
- 4. If it failed, clean the Stream Reading Glass and the Paper Back Shading Adjustment Member (FL1-4365), and perform the procedure from step 1 again.

■ DF White Level (DF Shading Target) Adjustment

In the case of entering a provisional value

- 1. Change the values of the following service mode settings to 299.
 - COPIER > ADJUST > CCD > DFTAR-R
 - COPIER > ADJUST > CCD > DFTBK-R

Change the values of the following service mode settings to 309.

- COPIER > ADJUST > CCD > DFTAR-G
- COPIER > ADJUST > CCD > DFTBK-G

Change the values of the following service mode settings to 307.

- COPIER > ADJUST > CCD > DFTAR-B
- COPIER > ADJUST > CCD > DFTBK-B

Change the values of the following service mode settings to 315.

- COPIER > ADJUST > CCD > DFTAR-BW
- COPIER > ADJUST > CCD > DFTBK-BW
- 2. Place an A4 or LTR size paper on the Copyboard Glass and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL1
- 3. Place an A4 or LTR size paper on the ADF and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL2

4. How to judge whether the operation was successful or failed

Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation was successful or failed.

Check the following values, and if all the values remain the same as those you entered, the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > DFTBK-R
- COPIER > ADJUST > CCD > DFTBK-G
- COPIER > ADJUST > CCD > DFTBK-B
- COPIER > ADJUST > CCD > DFTBK-BW
- 5. In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.
 - COPIER > FUNCTION > CCD > DF-WLVL1
 - COPIER > FUNCTION > CCD > DF-WLVL2
- 6. If the operation was "successful", write the entered values on the service label.

■ Copyboard Geometric Adjustment

In the case of manual adjustment

1. On an image copied using the reader, check the non-image width in the X and Y directions and the expansion/contraction in the X direction.

If adjustment is necessary, adjust the values of the following service mode settings.

- COPIER > ADJUST > ADJ-XY > ADJ-X
- COPIER > ADJUST > ADJ-XY > ADJ-Y
- COPIER > ADJUST > ADJ-XY > ADJ-X-MG
- 2. Write the entered values on the service label.

After Replacing the Reader CIS Unit

■ Entering the Value of the Stream Reading Position

In the case of entering a provisional value

1. Enter a provisional value.

Change the value of the following service mode setting to -20.

- COPIER > ADJUST > ADJ-XY > STRD-POS
- 2. Execute the following service mode.

CAUTION:

Be sure to close the ADF before executing the following service mode. Also be sure not to open the ADF while the service mode is being executed.

- COPIER > FUNCTION > INSTALL > STRD-POS
- 3. How to judge whether the operation was successful or failed

Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation was successful or failed.

Check the following value. If it remains at "-20", the operation result is judged to be "failed".

- COPIER > ADJUST > ADJ-XY > STRD-POS
- 4. In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.
 - COPIER > FUNCTION > INSTALL > STRD-POS
- 5. If the operation was "successful", write down the following value on the service label.
 - COPIER > ADJUST > ADJ-XY > STRD-POS

■ AGC Adjustment (Paper Front)

1. Enter a provisional value.

B&W mode

Change the values of the following service mode settings to 1,000.

- COPIER > ADJUST > CCD > LED-BW-R
- COPIER > ADJUST > CCD > LED-BW-G
- COPIER > ADJUST > CCD > LED-BW-B

Color mode

Change the values of the following service mode settings to 1,100.

- COPIER > ADJUST > CCD > LED-CL-R
- COPIER > ADJUST > CCD > LED-CL-G
- COPIER > ADJUST > CCD > LED-CL-B
- 2. Execute the following service mode.

CAUTION:

Be sure to close the ADF before executing the following service mode. Also be sure not to open the ADF while the service mode is being executed.

- COPIER > FUNCTION > CCD > BW-AGC
- · COPIER > FUNCTION > CCD > CL-AGC

3. How to judge whether the operation was successful or failed

Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation was successful or failed.

B&W mode

Check the following values. If all of them remain at "1,000", the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > LED-BW-R
- COPIER > ADJUST > CCD > LED-BW-G
- COPIER > ADJUST > CCD > LED-BW-B

In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.

• COPIER > FUNCTION > CCD > BW-AGC

Color mode

Check the following values. If all of them remain at "1,100", the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > LED-CL-R
- COPIER > ADJUST > CCD > LED-CL-G
- COPIER > ADJUST > CCD > LED-CL-B

In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.

- COPIER > FUNCTION > CCD > CL-AGC
- 4. If the operation was "successful", this procedure is completed. (There is no need to write down the values on the service label.)

■ DF White Level (DF Shading Target) Adjustment

In the case of entering a provisional value

- 1. Change the values of the following service mode settings to 299.
 - COPIER > ADJUST > CCD > DFTAR-R
 - COPIER > ADJUST > CCD > DFTBK-R

Change the values of the following service mode settings to 309.

- COPIER > ADJUST > CCD > DFTAR-G
- COPIER > ADJUST > CCD > DFTBK-G

Change the values of the following service mode settings to 307.

- COPIER > ADJUST > CCD > DFTAR-B
- · COPIER > ADJUST > CCD > DFTBK-B

Change the values of the following service mode settings to 315.

- COPIER > ADJUST > CCD > DFTAR-BW
- COPIER > ADJUST > CCD > DFTBK-BW

- 2. Place an A4 or LTR size paper on the Copyboard Glass and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL1
- 3. Place an A4 or LTR size paper on the ADF and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL2
- 4. How to judge whether the operation was successful or failed

Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation was successful or failed.

Check the following values, and if all the values remain the same as those you entered, the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > DFTBK-R
- COPIER > ADJUST > CCD > DFTBK-G
- COPIER > ADJUST > CCD > DFTBK-B
- COPIER > ADJUST > CCD > DFTBK-BW
- 5. In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.
 - COPIER > FUNCTION > CCD > DF-WLVL1
 - COPIER > FUNCTION > CCD > DF-WLVL2
- 6. If the operation was "successful", write the entered values on the service label.

Copyboard Geometric Adjustment

In the case of manual adjustment

1. On an image copied using the reader, check the non-image width in the X and Y directions and the expansion/contraction in the X direction.

If adjustment is necessary, adjust the values of the following service mode settings.

- COPIER > ADJUST > ADJ-XY > ADJ-X
- COPIER > ADJUST > ADJ-XY > ADJ-Y
- COPIER > ADJUST > ADJ-XY > ADJ-X-MG
- 2. Write the entered values on the service label.

■ ADF (Front/Back) Geometric Adjustment

In the case of manual adjustment

1. On an image duplex copied using the ADF, check the non-image width in the X and Y directions and the expansion/contraction in the X direction.

If adjustment is necessary, adjust the values of the following service mode settings.

- COPIER > ADJUST > ADJ-XY > ADJ-Y-DF
- COPIER > ADJUST > ADJ-XY > ADJY-DF2
- FEEDER > ADJUST > DOCST
- FEEDER > ADJUST > DOCST2
- FEEDER > ADJUST > LA-SPEED
- FEEDER > ADJUST > LA-SPD2
- 2. Write the entered values on the service label.

After Replacing the ADF CIS Unit

■ Entering the Value of the Stream Reading Position

In the case of entering a provisional value

1. Enter a provisional value.

Change the value of the following service mode setting to -20.

• COPIER > ADJUST > ADJ-XY > STRD-POS

2. Execute the following service mode.

CAUTION:

Be sure to close the ADF before executing the following service mode. Also be sure not to open the ADF while the service mode is being executed.

- COPIER > FUNCTION > INSTALL > STRD-POS
- 3. How to judge whether the operation was successful or failed

Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation was successful or failed.

Check the following value. If it remains at "-20", the operation result is judged to be "failed".

- COPIER > ADJUST > ADJ-XY > STRD-POS
- 4. In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.
 - COPIER > FUNCTION > INSTALL > STRD-POS
- 5. If the operation was "successful", write down the following value on the service label.
 - COPIER > ADJUST > ADJ-XY > STRD-POS

AGC Adjustment (Paper Back)

1. Enter a provisional value.

B&W mode

Change the values of the following service mode settings to 1,000.

- COPIER > ADJUST > CCD > LE-BWRBK
- COPIER > ADJUST > CCD > LE-BWGBK
- COPIER > ADJUST > CCD > LE-BWBBK

Color mode

Change the values of the following service mode settings to 1,100.

- COPIER > ADJUST > CCD > LE-CLRBK
- COPIER > ADJUST > CCD > LE-CLGBK
- COPIER > ADJUST > CCD > LE-CLBBK
- 2. Execute the following service mode.

CAUTION

Be sure to close the ADF before executing the following service mode. Also be sure not to open the ADF while the service mode is being executed.

- COPIER > FUNCTION > CCD > BW-AGC2
- COPIER > FUNCTION > CCD > CL-AGC2

3. How to judge whether the operation was successful or failed

Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation was successful or failed.

B&W mode

Check the following values. If all of them remain at "1,000", the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > LE-BWRBK
- COPIER > ADJUST > CCD > LE-BWGBK
- COPIER > ADJUST > CCD > LE-BWBBK

In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.

• COPIER > FUNCTION > CCD > BW-AGC2

Color mode

Check the following values. If all of them remain at "1,100", the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > LE-CLRBK
- COPIER > ADJUST > CCD > LE-CLGBK
- COPIER > ADJUST > CCD > LE-CLBBK

In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.

• COPIER > FUNCTION > CCD > CL-AGC2

4. If the operation was "successful", this procedure is completed. (There is no need to write down the values on the service label.)

■ Paper Back Shading Initial Measurement

- 1. Execute the following service mode without placing anything on the Stream Reading Glass.
 - COPIER > FUNCTION > CCD > BK-SHD1
- 2. Place the Paper Back Shading Adjustment Member (FL1-4365) on the Stream Reading Glass, and execute the following service mode.

CAUTION:

Be sure to close the ADF before executing the following service mode. Also be sure not to open the ADF while the service mode is being executed.

• COPIER > FUNCTION > CCD > BK-SHD2



- 3. Check the following service mode to determine if it was [1] successful or [0] failed.
 - COPIER > FUNCTION > CCD > BK-SHDST
- 4. If it failed, clean the Stream Reading Glass and the Paper Back Shading Adjustment Member (FL1-4365), and perform the procedure from step 1 again.

■ DF White Level (DF Shading Target) Adjustment

In the case of entering a provisional value

- 1. Change the values of the following service mode settings to 299.
 - COPIER > ADJUST > CCD > DFTAR-R
 - COPIER > ADJUST > CCD > DFTBK-R

Change the values of the following service mode settings to 309.

- COPIER > ADJUST > CCD > DFTAR-G
- COPIER > ADJUST > CCD > DFTBK-G

Change the values of the following service mode settings to 307.

- COPIER > ADJUST > CCD > DFTAR-B
- COPIER > ADJUST > CCD > DFTBK-B

Change the values of the following service mode settings to 315.

- COPIER > ADJUST > CCD > DFTAR-BW
- COPIER > ADJUST > CCD > DFTBK-BW
- 2. Place an A4 or LTR size paper on the Copyboard Glass and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL1
- 3. Place an A4 or LTR size paper on the ADF and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL2
- 4. How to judge whether the operation was successful or failed

Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation was successful or failed.

Check the following values, and if all the values remain the same as those you entered, the operation result is judged to be "failed".

- COPIER > ADJUST > CCD > DFTBK-R
- COPIER > ADJUST > CCD > DFTBK-G
- COPIER > ADJUST > CCD > DFTBK-B
- COPIER > ADJUST > CCD > DFTBK-BW
- 5. In the case of a failure, turn OFF and then ON the power, and execute the following service mode again.
 - COPIER > FUNCTION > CCD > DF-WLVL1
 - COPIER > FUNCTION > CCD > DF-WLVL2
- 6. If the operation was "successful", write the entered values on the service label.

ADF (Front/Back) Color Displacement Offset Adjustment

1. Enter the values shown on the service label in service mode.

NOTE:

To reduce the number of label items, the values of 100DF-xx and 50DF-xx are the same.

<100-DF-RG>

- COPIER > ADJUST > CCD > 50DF-RG
- COPIER > ADJUST > CCD > 100DF-RG
- <100-DF-GB>
 - COPIER > ADJUST > CCD > 50DF-GB
 - COPIER > ADJUST > CCD > 100DF-GB
- <100DF2RG>
 - COPIER > ADJUST > CCD > 50DF2RG
 - COPIER > ADJUST > CCD > 100DF2RG
- <100DF2GB>
 - COPIER > ADJUST > CCD > 50DF2GB
 - COPIER > ADJUST > CCD > 100D2GB

ADF (Front/Back) Geometric Adjustment

In the case of manual adjustment

1. On an image duplex copied using the ADF, check the non-image width in the X and Y directions and the expansion/contraction in the X direction.

If adjustment is necessary, adjust the values of the following service mode settings.

- COPIER > ADJUST > ADJ-XY > ADJ-Y-DF
- COPIER > ADJUST > ADJ-XY > ADJY-DF2
- FEEDER > ADJUST > DOCST
- FEEDER > ADJUST > DOCST2
- FEEDER > ADJUST > LA-SPEED
- FEEDER > ADJUST > LA-SPD2
- 2. Write the entered values on the service label.



Troubleshooting

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Test Print



Engine Test Print

This machine has an engine test print function to check whether the printer engine is operating normally.

NOTE:

In the case of engine test print, a test print can be performed by using only the Engine Controller.

There are two types of engine test print: 1-sided print and 2-sided print.

- 1. Load A4/LTR paper in the cassette.
- 2. While the machine is in the standby mode, open and close the Cartridge Door for the predetermined number of times in a row.
 - · In case of 1-sided print
 - 4 times
 - · In case of 2-sided print
 - 5 times or more
- 3. An engine test print is executed, and the test pattern as shown below is printed on one side or both sides of a sheet of paper.

	$\overline{}$



Controller test print

The following test print types are available with this machine, and you can check for failure of an image with a circle 'Yes' described in the image check items in the table below. When no failure is found in the test print in normal output mode, it can be caused in PDL input or Reader.

The image of the test print is generated by the Main Controller PCB.

PG-TYPE	TYPE Pattern	Image check items									
		Grada- tion	Fog- ging	Trans- fer fail- ure	Black line	White line	Uneven pitch	Uneven density	Right angle	Straigh t lines	Magni- fication ratio
0	Grid Pattern								Yes	Yes	Yes
1	Halftone Pattern			Yes	Yes	Yes	Yes	Yes			
2	Black Pattern			Yes		Yes	Yes	Yes			
3	White Pattern		Yes		Yes						
4	Gradation 17 Pattern	Yes	Yes		Yes	Yes		Yes			
5	Thin Horizontal Line Pattern				Yes	Yes					
6	(For R&D use)										
7	(For R&D use)										

Follow the procedure shown below to output the test print.

1. Select the following service mode.

TESTMODE > PRINT > PG-TYPE

2. Enter the PG number using the numeric keypad, and press the [Apply] key.

NOTE:

If necessary, change the settings for test print in the following service mode.

If the settings are not changed, a test print will be executed with the initial values of service mode settings.

· Setting of the number of output sheets:

TESTMODE > PRINT > COUNT

• Setting of 1-sided/2-sided printing:

TESTMODE > PRINT > PHASE

· Setting of the image formation method:

TESTMODE > PRINT > MODE

· Setting of the image correction table:

TESTMODE > PRINT > THRU

Adjustment of test print density:

TESTMODE > PRINT > DENS

Setting of toner thinning process:

TESTMODE > PRINT > MABK

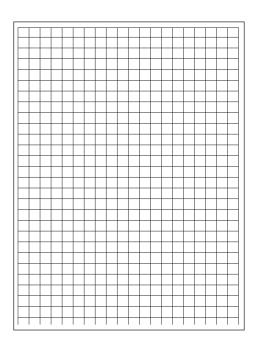
· Setting of the paper source used when outputting a test print:

TESTMODE > PRINT > FEED

3. Execute the following service mode to output a test print.

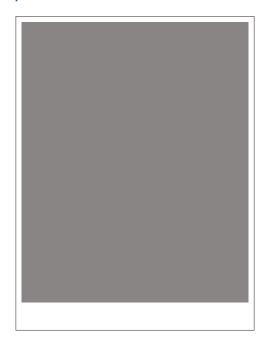
TESTMODE > PRINT > START

- How to use the test print
- Grid Pattern (TYPE = 0)



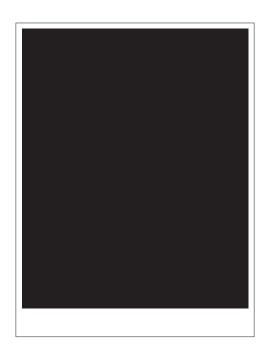
Check item	Checking method	Assumed cause
Right Angle/ Straight Lines	Check that lines in horizontal/vertical scanning directions are paralleled to the paper. Check that these lines are at right angle to one another.	Failure of feed system Failure of Laser Scanner Unit
Magnification Ratio	Check that the grid is printed at 9.99 mm intervals. (Check the image on the second side at duplex printing.)	Failure of roller's feed system Failure of Photosensitive Drum Failure of Laser Scanner Unit

• Halftone Pattern (TYPE = 1)



Check item	Checking method	Assumed cause
Transfer failure	Check the evenness of density.	Failure of transfer system Failure of Transfer Roller
Black line	Check that no black line appears on the image.	Failure of developing system Failure of cleaning (drum) Failure of Transfer Roller
White line	Check that no white line appears on the image.	Soiling on the laser light path Failure of developing system
Uneven Pitch	Check that no line appears in the horizontal scanning direction of the image.	Failure of Photosensitive Drum Failure of developing system Failure of laser exposure system Drive-related failure
Uneven Density	Check the evenness of density.	Failure of Photosensitive Drum Failure of developing system Failure of Transfer Roller

• Black Pattern (TYPE = 2)

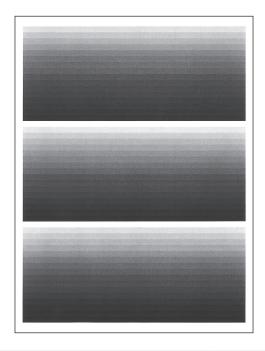


Check item	Checking method	Assumed cause
Transfer failure		Failure of transfer system Failure of Transfer Roller
White line	Check that no white line appears on the image.	Failure of developing system
Uneven Pitch	_	Failure of Photosensitive Drum Failure of developing system Failure of laser exposure system Drive-related failure
Uneven Density		Failure of Photosensitive Drum Failure of developing system Failure of Transfer Roller

• White Pattern (TYPE = 3)

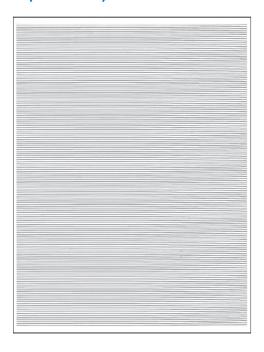
Check item	Checking method	Assumed cause
Black line	Check that no black line appears on the image.	Failure of developing system Failure of cleaning (drum) Failure of Transfer Roller
Fogging	00 0 11	Failure of Photosensitive Drum Failure of laser exposure system Failure of developing system

• Gradation 17 Pattern (TYPE = 4)



Check item	Checking method	Assumed cause
Gradation	Check that gradation in density is made appropriately.	Failure of Photosensitive Drum Failure of laser exposure system Failure of developing system
Fogging	Check that no fogging appears in the blank area.	Failure of Photosensitive Drum Failure of laser exposure system Failure of developing system
Black line	Check that no black line appears on the image.	Failure of developing system Failure of cleaning (drum) Failure of Transfer Roller
White line	Check that no white line appears on the image.	Soiling on the laser light path Failure of developing system
Uneven Density	Check that there is no density difference between the front and rear sides.	Failure of Photosensitive Drum Failure of developing system Failure of Transfer Roller

• Thin Horizontal Line Pattern (TYPE = 5)



Check item	Checking method	Assumed cause
Black line	0	Failure of developing system Failure of cleaning (drum) Failure of Transfer Roller
White line	, ,	Soiling on the laser light path Failure of developing system



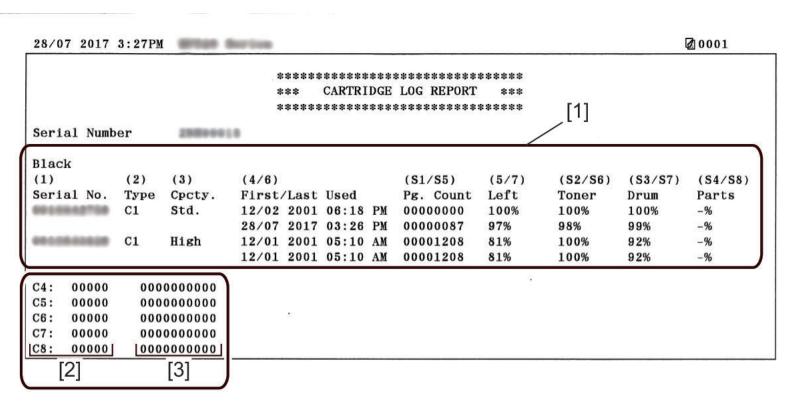
Cartridge Log Report

Logs such as history of cartridge replacement are output as a report.

There are two types of cartridge log reports; one for users and one for service technicians.

CAUTION

Do not provide users with the cartridge log report for service technicians because it contains detailed information that is not disclosed to end users.



No.	Description
[1]	Replacement logs
[2]	Cartridge type: The number of times a non-genuine cartridge has been detected
[3]	Non-genuine cartridge page count

NOTE:

In addition to output as a report, cartridge logs can also be displayed on the remote UI service mode screen (for service technicians) or remote UI screen (for users).

- To display cartridge logs (for service technicians): SERVICE REPORT > CRG-LOG
- To display cartridge logs (for users)*:
 Status Monitor/Cancel > Cartridge Log
- *: When not displaying the cartridge log to users, set the following service mode to "0" (OFF).
 - ON/OFF of [Cartridge Log] display:
 COPIER > OPTION > DSPLY-SW > CRG-LOG

Output method

Execute the following service mode to output a cartridge log report for service technicians.

To output a report on cartridge replacement history:
 COPIER > FUNCTION > MISC-P > CRG-LOG

NOTE:

- To output a cartridge log report (for users)*:
 Menu > Output Reports > Print List > Cartridge Log Report
- *: When not allowing users to output the cartridge log report, set the following service mode to "0" (OFF).
 - ON/OFF of [Cartridge Log Report] display:
 COPIER > OPTION > DSPLY-SW > CRG-LOG

Replacement logs

The record of replacement and usage of cartridges will be printed.

CAUTION:

Just after the cartridge has been replaced with a genuine cartridge or when a non-genuine cartridge is used, accurate information cannot be obtained and a random or approximate value may be printed. The remaining lives of some of the parts are not supported depending on the model.

Item	Description	Remarks
(1) Serial No.	Serial number of the cartridge	
(2) Type	Cartridge type	C1: GenuineC2 to C8: Non-genuineC0: Unknown
(3) Cpcty.	Cartridge capacity	Displayed in accordance with the toner fill-up amount
(4/6) First/Last Used	The date and time it was installed/last used	
(S1/S5) Pg. Count *	Cartridge page count (when it was installed/last used)	00000000 to 99999999
(5/7) Left	The amount remaining in the cartridge (when it was installed/last used)	0 to 100% (New: 100%, Non-genuine: -)
(S2/S6) Toner *	The remaining life of the toner (when it was installed/last used)	-128 to 100 % (New: 100%, Indefinite: -%)
(S3/S7) Drum *	The remaining life of the drum (when it was installed/last used)	-128 to 100 % (New: 100%, Indefinite: -%)
(S4/S8) Parts *	The remaining life of the Developing Assembly (when it was installed/last used)	-128 to 100 % (New: 100%, Indefinite: -%)

^{*:} S1 to S8 are printed only on reports for service technicians.

Number of detections of non-genuine cartridge / Page count of non-genuine cartridge

When a non-genuine cartridge is installed, it is classified as a cartridge type C2 to C8 according to the reason for judging it non-genuine, and the number of detections of each type and the number of pages printed with the cartridge installed are recorded.

Reason for judg-	Cartridge type		Description	
ing it non-genuine	Report for users*	Report for service		
OEM	C3	C5	The number of detections of an OEM cartridge, and the number of pages printed	
Communication error	C2	C4	The number of detections of a cartridge without memory and the number of pages printed	
Refill	C3	C6	The number of detections of a cartridge prepared by refilling toner into a genuine cartridge, and the number of pages printed	
Copied memory	C3	C7	The number of detections of a cartridge prepared by refilling toner into a genuine cartridge and copying the contents of a normal memory, and the number of pages printed	
Authentication failed	C2	C8	The number of detections of a cartridge that cannot be authenticated, and the number of pages printed	

^{*:} Only C2 and C3 are displayed. The total count of the values of the reasons for judging the cartridge non-genuine is displayed.

NOTE:

The number of detections of non-genuine cartridge and the page count of non-genuine cartridge can be reset.

 To clear the cartridge replacement log: COPIER > FUNCTION > CLEAR > CRGL-CNT

Troubleshooting Items



Remedy for Image Failure

When an image failure occurs, perform the remedy by referring to the following material.

• User's Guide > Top > Troubleshooting > When You Cannot Print Properly

NOTE:

URL of User's Guide -> http://canon.com/oip-manual



Recurring faulty image

Overview

Foreign matters or lines on rollers along the paper feed path may cause faulty images in the vertical scanning direction.

Field Remedy

See the roller pitches listed in the tables below to clean and/or replace the corresponding parts.

CAUTION:

Since the Primary Charging Roller, Photosensitive Drum, and Developing Roller are located inside the cartridge and they cannot be cleaned on a single part basis, replace the cartridge itself.

Roller pitch Parts		Symptom			
		Soiling	White spots	Soiled back	Fixing failure
Approx. 50 mm	Cassette Pickup Roller	Occurs	-	-	-
Approx. 44 mm	Cassette Separation Roller	-	-	Occurs	-
Approx. 50 mm	Cassette Feed Roller	Occurs	-	-	-
Approx. 43 mm	Registration Roller	-	-	Occurs	-
Approx. 39 mm	Transfer Roller	-	Occurs	Occurs	-
Approx. 28 mm	Primary Charging Roller	-	Occurs	-	-
Approx. 75 mm	Photosensitive Drum	Occurs	Occurs	-	-
Approx. 31 mm	Developing Roller	-	Occurs	-	-
Approx. 57 mm	Fixing Film	Occurs	Occurs	-	Occurs
Approx. 63 mm	Pressure Roller	Occurs	-	Occurs	Occurs



Checking the Nip Width of the Fixing Assembly

Overview

Although the nip width of the Fixing Assembly cannot be adjusted with this machine, it can be checked. By checking the nip width when fixing failure occurs, it is possible to judge whether there is a problem with the Fixing Assembly.

Field Remedy

Check the nip width of the Fixing Assembly by the following procedure.

- 1. In the following service mode, print solid black using A4/LTR size paper.
 - TESTMODE > PRINT > PG-TYPE = 2
 - TESTMODE > PRINT > START
- 2. Load the printed paper with the solid black side facing up in a cassette of the machine.
- 3. In the following service mode, print solid white.
 - TESTMODE > PRINT > PG-TYPE = 3
 - TESTMODE > PRINT > START

4. When the leading edge of the paper comes out to the Delivery Outlet, open the Front Cover to cause a door open jam and then close the Front Cover immediately.

CAUTION:

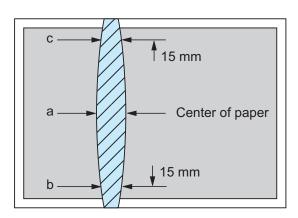
Since pressure is released by opening the Front Cover, accurate fixing nip width cannot be measured while keeping the Front Cover opened.

- 5. About 20 seconds afterwards, open the Front Cover and remove the jammed paper.
- 6. Measure the widths of the glossy part of the toner on the printed paper, and check that they are within the range as follows.

(Reference value)

- Center (a): 7.1 +/- 1.0 mm
- Edge (b) and (c): 6.7 +/- 1.0 mm





Debug Log



Function Overview

The debug log is a log that analyzes the program behavior of the machine to enable developers to identify problems.

This machine is embedded with a function that compiles the log of the behavior of each software module as debug log and outputs it as integrated log for analyzing problems.

Be sure to collect the debug log when the Support Dept. of sales company so instructs.

Note that there is no need for service technicians to check the content of collected debug log.

Cases in which collection of debug log is effective

Collection of debug log is effective in the following cases:

- · Neither the Support Dept. of sales company nor CINC can reproduce the trouble that occurred at the customer site
- · When the error frequency is low
- When the failure is suspected to be due to firmware rather than a mechanical/electrical failure.

CAUTION:

If the procedure for reproducing the failure is clear and the Support Dept. of sales company and CINC can reproduce it, collection of debug log is not necessary.



Conditions for collecting logs

Conditions for not being able to collect logs

In the following cases, the procedure for obtaining logs is not required because logs cannot be obtained.

- · Service mode screen cannot be accessed
- · The machine cannot recognize a USB flash drive
- · No USB port is installed in the machine (when the model has only a copy function)

What is necessary to collect logs

A USB flash drive that satisfies the following conditions is required to obtain the debug logs of the machine:

- Formatted in FAT 16/FAT32
- There is a free space of approx. 100MB.
- · Can be recognized by the machine



Collection procedure

The following shows the procedure for collecting the debug log from the Control Panel.

Connect a USB flash drive to the machine. In the case of a model having a USB connector on a side of the Control
Panel, be sure to connect the USB flash drive to the Control Panel. In the case of a model having a USB connector
only on the rear side, connect the USB flash drive to the USB connector on the rear side.

CAUTION:

In the case of a model having a USB connector on the Control Panel, if the USB flash drive is connected to the USB connector on the rear side, debug logs are not transferred to the USB flash drive.

- 2. Execute the following service mode from the Control Panel or Remote UI.
 - COPIER > FUNCTION > SYSTEM > LOGWRITE

"Executing..." is displayed while log collection is executed. When it is completed, the screen shows the service mode screen again.

- 3. Execute the following service mode from the Control Panel or Remote UI.
 - COPIER > FUNCTION > SYSTEM > LOG2USB

"Executing..." is displayed while log collection is executed. When it is completed, the screen shows the service mode screen again.

4. Remove the USB flash drive by the correct procedure.

Connect the USB flash drive to the PC, and check that the log file shown below has been saved.

- Output by LOGWRITE: SUBLOG.TXT
- Output by LOG2USB: SUBLOG_yyyymmdd.HHMMSS_xxx.gz (the file may be divided into multiple files)



Error/Jam/Alarm

Outline	192
Error Code	194
JAM Code	199
Alarm Code	202

Outline

This chapter describes various codes which are displayed when a failure occurs on the product. These are classified into 3 codes as follows.

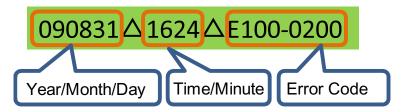
Code type	Explanation
Error code	This code is displayed when an error occurs on the machine.
Jam code	This code is displayed when a jam occurs inside the machine.
Alarm code	This code is displayed when a function of the machine is malfunctioned.



Error/Jam/Alarm Log indication

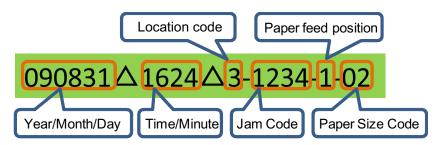
Error log

Service Mode > COPIER > DISPLAY > ERR



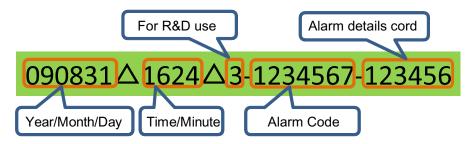
Jam log

Service Mode > COPIER > DISPLAY > JAM



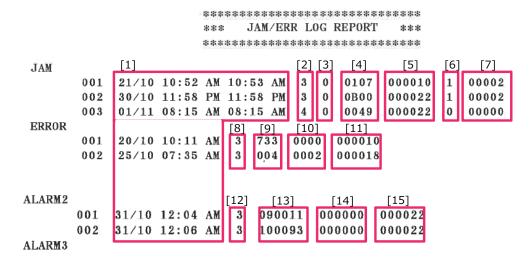
Alarm log

Service Mode > COPIER > DISPLAY > ALARM-2 Service Mode > COPIER > DISPLAY > ALARM-3



JAM/ERR LOG REPORT

Output procedure of the JAM/ERR LOG REPORT Service Mode > COPIER> FUNCTION> MISC-P > ERR-LOG



No.	Item
1	Day/Month Time/Minute
2	Location code
3	Not Used (for R&D)
4	Jam code
5	Total counter
6	Paper feed position
7	Paper size
8	Location code
9	Error code
10	Error details code
11	Total counter
12	Alarm level
13	Alarm code
14	Alarm details code
15	Total counter

0

Location Code

The jam codes of this machine contain information on the location.

The location information is displayed in a single digit and has the meaning shown below:

Device	Location code
Host machine	0
ADF	1



Pickup Position Code

When a jam occurs, the pickup location is indicated with the following pickup position code.

Pickup position	Pickup position code
ADF	-
Pickup from Multi-purpose Tray	0
Cassette 1	1
Option cassette	2
At duplex printing	7

Error Code



Error Code Details

E000-0000	Error in temperature rising of the Fixing Assembly
Detection Description	The temperature of the Fixing Assembly did not reach a certain temperature within the specified period of time.
Remedy	 Check the harness/connector connection between the Fixing Assembly and the DC Controller PCB. Replace the Fixing Assembly. Replace the DC Controller PCB.
E001-0000	Abnormal high temperature of the Fixing Assembly
Detection Description	It was detected that the temperature of the Fixing Assembly was abnormally high.
Remedy	 Check the harness/connector connection between the Fixing Assembly and the DC Controller PCB. Replace the Fixing Assembly. Replace the DC Controller PCB.
	3. Replace the DC Controller PCB.
E003-0000	Abnormal low temperature of the Fixing Assembly
Detection Description	It was detected that the temperature of the Fixing Assembly was abnormally low.
Remedy	 Check the harness/connector connection between the Fixing Assembly and the DC Controller PCB. Replace the Fixing Assembly. Replace the DC Controller PCB.
F004 0000	
E004-0000	Drive circuit error
Detection Description	The zero cross signal was not detected for the specified period of time or more.
Remedy	1. Check the harness/connector connection between the Fixing Assembly and the DC Controller PCB.
	2. Replace the Fixing Assembly. 3. Replace the DC Controller PCB.
E014-0000	Error in startup of the Main Motor
Detection Description	Revolution of the Main Motor did not reach the specified value.
Remedy	 Check the harness/connector connection between the Main Motor and the DC Controller PCB. Replace the Main Motor. Replace the DC Controller PCB.
E014-0001	Error in startup of the Main Motor
Detection Description	Revolution of the Main Motor was out of the specified range.
Remedy	 Check the harness/connector connection between the Main Motor and the DC Controller PCB. Replace the Main Motor. Replace the DC Controller PCB.

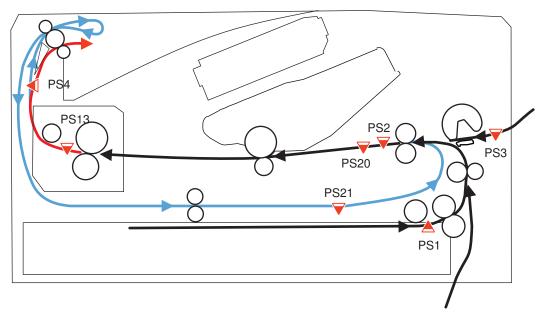
E015-0002	Cassette 2 lift-up error
Detection Description	After lift-up of the Lifting Plate of the Cassette 1 started, ON status of the Paper Surface Sensor of the Cassette 1 was not detected within the specified period of time.
Remedy	1. Turn ON the power with the cassette of the Cassette Unit removed, insert the cassette, and then check the operation sound of the Lifter Motor. When there is operation sound of the Lifter Motor, check if the Lifting Plate has been lifted up. <when been="" has="" lifted="" lifting="" plate="" the="" up=""> 1. Check the harness/connector connection between the Cassette Driver PCB and the Paper Surface Sensor of the Cassette Unit. 2. Check the harness/connector connection between the Cassette Driver PCB and the Cassette Pickup Solenoid of the Cassette Unit. 3. Replace the Cassette Driver PCB. 4. Replace the DC Controller PCB. <when been="" has="" lifted="" lifting="" not="" plate="" the="" up=""> 1. Check the condition of the gear of the Cassette Unit (missing teeth, swing). 2. Replace the Drive Unit of the Cassette Unit. <when is="" motor="" no="" of="" operation="" sound="" the="" there=""> 1. Check the harness/connector connection between the Cassette Driver PCB and the Lifter Motor of the Cassette Unit. 2. Replace the Drive Unit of the Cassette Unit. 3. Replace the Drive Unit of the Cassette Unit. 4. Replace the Drive Unit of the Cassette Unit. 5. Replace the Driver Driver PCB. 6. Replace the DC Controller PCB. 6. Replace the DC Controller PCB. 6. Replace the DC Controller.</when></when></when>
E052-0000	Duplex Feed Unit absent error
Detection Description	Connection of the Duplex Feed Unit was not correct.
Remedy	Replace the DC Controller PCB.
E066-0000	Environment Sensor error
Detection Description	When the Environment Sensor is judged to be in error
Remedy	 Check the harness/connector connection between the Power supply switch PCB (Environment Sensor) and the DC Controller PCB. Replace the Power supply switch PCB (Environment Sensor). Replace the DC Controller PCB.
E100-0000	BD error
Detection Description	BD error
Remedy	 Check the harness, Flat Cable, and connector connection between the Laser Scanner Unit and the DC Controller PCB. Replace the Flat Cable. Replace the Laser Scanner Unit. Replace the DC Controller PCB.
E110-0000	Error in startup of the Scanner Motor
Detection Description Remedy	Scanner area error (error in the initial operation of the Scanner Motor) 1. Check the harness/connector connection between the DC Controller PCB and the Laser Scanner Unit. 2. Check the harness/connector connection between the Relay PCB and the Laser Scanner Unit. 3. Replace the Laser Scanner Unit.
E110-0001	Scanner Motor rotation error
Detection Description	Scanner area error (Scanner Motor rotation error)
Remedy	1. Check the harness/connector connection between the DC Controller PCB and the Laser
	Scanner Unit. 2. Check the harness/connector connection between the Relay PCB and the Laser Scanner Unit. 3. Replace the Laser Scanner Unit.
E196-0000	Scanner Unit. 2. Check the harness/connector connection between the Relay PCB and the Laser Scanner Unit.
E196-0000 Detection Description	Scanner Unit. 2. Check the harness/connector connection between the Relay PCB and the Laser Scanner Unit. 3. Replace the Laser Scanner Unit.

E196-1000	ROM writing/reading error (Main ROM 16MB)
Detection Description	Error in writing/reading of main program in the Main Controller PCB (Main ROM 16MB)
Remedy	Update the set of controller firmware. Replace the Main Controller PCB.
E196-2000	ROM writing/reading error (ROM (2MB) for storing setting values)
Detection Description	Error in writing/reading of the setting values storage area in the Main Controller PCB (ROM (2MB) for storing setting values)
Remedy	 Update the set of controller firmware. Replace the Main Controller PCB.
E196-3000	ROM writing/reading error (eMMC)
Detection Description	Unable to read/write data from the eMMC. The eMMC failure occurred.
Remedy	Update the set of controller firmware. Replace the Main Controller PCB.
E196-3001	ROM-ID mismatch (eMMC)
Detection Description	The eMMC has been replaced wrongly. The eMMC failure occurred.
Remedy	 Update the set of controller firmware. Replace the Main Controller PCB.
E202-0001	CIS Unit HP error (outward)
Detection Description	The CIS Unit moves backward, but does not move to the HP.
Remedy	1. Replace the CIS Unit HP Sensor. 2. Replace the Reader Motor. 3. Replace the CIS Unit. 4. Replace the Reader Unit.
E202-0002	CIS Unit HP error (homeward)
Detection Description	The CIS Unit moves forward, but does not move to the HP.
Remedy	 Replace the CIS Unit HP Sensor. Replace the Reader Motor. Replace the CIS Unit. Replace the Reader Unit.
E246-0000	System error
Detection Description	System error
Remedy	Contact the sales company.
E247-0000	System error
Detection Description	System error
Remedy	Contact the sales company.
E302-0001	Paper front light intensity error
Detection Description	The light intensity is low at shading.
Remedy	 Turn OFF and then ON the main power. Check the harness/connector connection between the Main Controller PCB and the CIS Unit. Replace the CIS Unit. Replace the Main Controller PCB. Replace the Reader Unit.
E302-0002	Error in image sampling for shading
Detection Description	Image sampling for shading was not completed.
Remedy	Replace the Main Controller PCB.

E350-0000	System error
Detection Description	System error
Remedy	Contact the sales company.
E351-0000	Main Controller PCB error (Scanner system)
Detection Description	System error
Remedy	Update the set of controller firmware.
	2. Replace the Main Controller PCB.
E354-0000	System error
Detection Description	System error
Remedy	Contact the sales company.
E355-0000	System error
Detection Description	System error
Remedy	Contact the sales company.
E355-0004	System error
Detection Description	System error
Remedy	Contact the sales company.
E355-0005	System error
Detection Description	System error
Remedy	Contact the sales company.
E732-0001	Scanner communication error
Detection Description	Scanner communication error
Remedy	 Install the set of controller firmware. Replace the Main Controller PCB.
E736-0000	Fax communication error
Detection Description	Error in communication with the CCU/modem When it is detected that the Fax PCB is not installed
Remedy	 Check the connection of the Fax PCB. Replace the Fax PCB.
E736-0001	Error in ROM for backing up fax data
Detection Description	An error occurred in ROM for backing up fax data.
Remedy	 Check the connection of the Fax PCB. Replace the Fax PCB.
E743-0000	DDI communication error
Detection Description	Software sequence error
Remedy	1. Turn OFF and then ON the main power.
E744-0001	Invalid combination of language file versions
Detection Description	Language file version was not matched with that of the main program.
Remedy	Update the set of controller firmware.
E744-0002	Language file error
Detection Description	The size of the language file exceeded the allowed size.
Remedy	Update the set of controller firmware.
E744-1001	Version mismatch between BOOTABLE and BOOTROM
Detection Description	Version of the main program and that of the start-up program were not matched.
Remedy	Update the set of controller firmware.

E744-4000	Engine ID error
Detection Description	An invalid engine connection was detected.
Remedy	1. Check the version of D-CON. 2. Update the D-CON. 3. Update the set of controller firmware. 4. Check the model code. (E744-4000 occurs also when the model code and the engine code are mismatched.)
E744-5000	Panel microcomputer error
Detection Description	Error in the Control Panel PCB (microcomputer).
Remedy	 Check the harness/connector connection between the panel microcomputer and Main Controller PCB. Update the set of panel microcomputer. Update the set of controller firmware. Replace the Main Controller PCB.
E744-6000	Error in communication with the Wireless LAN Board
Detection Description	Unable to communicate with the Wireless LAN PCB.
Remedy	Check the connection of the wireless LAN slot (SD-IO).
	2. Update the set of controller firmware.
	3. Replace the Main Controller PCB.
E744-7000	Backup microcomputer error
Detection Description	An error in the microcomputer which retains fax job information of the Main Controller PCB.
Remedy	Check the version of backup microcomputer, and upgrade the version.
	2. Update the set of backup microcomputer.3. Update the set of controller firmware.
	Replace the Main Controller PCB.
E746-0000	Main Controller PCB error (others)
Detection Description	A communication error of the Main Controller PCB occurred (other than scan-related
,	communication error).
Remedy	Update the set of controller firmware.
	2. Replace the Main Controller PCB.
E766 0000	2. Replace the Main Controller PCB.
E766-9000	Scanner power state error
Detection Description	Scanner power state error Error in power state of the Laser Scanner Unit (firmware-dependent)
	Scanner power state error
Detection Description	Scanner power state error Error in power state of the Laser Scanner Unit (firmware-dependent) 1. Install the set of controller firmware.
Detection Description Remedy	Scanner power state error Error in power state of the Laser Scanner Unit (firmware-dependent) 1. Install the set of controller firmware. 2. Replace the Laser Scanner Unit.

JAM Code



Host machine

Loca- tion Code	JAM Code	Туре	Sensor Name/Detection contents	Sensor ID	Area
00	0801	Pickup Delay JAM 1	TOP Sensor Delay	PS2	Multi-purpose Tray
00	0802	Pickup Delay JAM 1	TOP Sensor Delay	PS2	Cassette 1
00	0803	Pickup Delay JAM 1	TOP Sensor Delay	PS2	Cassette 2
00	0807	Pickup Delay JAM 1	TOP Sensor Delay	PS2	Registration Area to Drum Area
00	0808	Pickup Delay JAM 1	Fixing Delivery Sensor Delay	PS13	Drum Area to Fixing Area
00	0809	Pickup Delay JAM 1	Delivery Tray Full Sensor Delay	PS4	Fixing Area to Delivery Area
00	080E	Pickup Delay JAM 1	Duplex Feed Sensor Delay	PS21	Duplex Pickup Area
00	0907	Pickup Delay JAM 2	TOP Sensor Delay	PS2	Registration Area to Drum Area
00	0908	Pickup Delay JAM 2	Fixing Delivery Sensor Delay	PS13	Drum Area to Fixing Area
00	0909	Pickup Delay JAM 2	Delivery Tray Full Sensor Delay	PS4	Fixing Area to Delivery Area
00	0A07	Pickup Delay JAM 2	TOP Sensor Delay	PS2	Registration Area to Drum Area
00	0A08	Pickup Delay JAM 3	Fixing Delivery Sensor Delay	PS13	Drum Area to Fixing Area
00	0A09	Pickup Delay JAM 3	Delivery Tray Full Sensor Delay	PS4	Fixing Area to Delivery Area
00	1007	Pickup Stationary JAM 1	TOP Sensor Stationary	PS2	Registration Area to Drum Area
00	1008	Pickup Stationary JAM 1	Fixing Delivery Sensor Stationary	PS13	Drum Area to Fixing Area
00	1009	Pickup Stationary JAM 1	Delivery Tray Full Sensor Stationary	PS4	Fixing Area to Delivery Area
00	1807	Fixing Delivery Delay JAM 1	TOP Sensor Delay	PS2	Registration Area to Drum Area
00	1808	Fixing Delivery Delay JAM 1	Fixing Delivery Sensor Delay	PS13	Drum Area to Fixing Area
00	1809	Fixing Delivery Delay JAM 1	Delivery Tray Full Sensor Delay	PS4	Fixing Area to Delivery Area
00	2007	Fixing Delivery Stationary JAM 1	TOP Sensor Stationary	PS2	Registration Area to Drum Area
00	2008	Fixing Delivery Stationary JAM 1	Fixing Delivery Sensor Stationary	PS13	Drum Area to Fixing Area
00	2009	Fixing Delivery Stationary JAM 1	Delivery Tray Full Sensor Stationary	PS4	Fixing Area to Delivery Area
00	2801	Power ON JAM 1 (*2)	TOP Sensor Residual	PS2	Multi-purpose Tray
00	2802	Power ON JAM 1 (*2)	TOP Sensor Residual	PS2	Cassette 1
00	2803	Power ON JAM 1 (*2)	TOP Sensor Residual	PS2	Cassette 2
00	2807	Power ON JAM 1 (*2)	TOP Sensor Residual	PS2	Registration Area to Drum Area
00	2808	Power ON JAM 1 (*2)	Fixing Delivery Sensor Residual	PS13	Drum Area to Fixing Area

ual Duplex Feed Sensor Residual PS21 Duplex Feed Area	Loca- tion Code	JAM Code	Туре	Sensor Name/Detection contents		Area
2901 Power ON JAM 2 (*2) TOP Sensor Residual PS2 Multi-purpose Tray	00	2809	Power ON JAM 1 (*2)	Delivery Tray Full Sensor Residual	PS4	Fixing Area to Delivery Area
2902 Power ON JAM 2 (*2) TOP Sensor Residual PS2 Cassette 1	00	280D	Power ON JAM 1 (*2)	Duplex Feed Sensor Residual	PS21	Duplex Feed Area
Power ON JAM 2 (*2) TOP Sensor Residual PS2 Cassette 2 Registration Area to Drum Area PS2 Registration Area to Drum Area PS3 Registration Area to Drum Area PS4 Registration Area to Drum Area PS5 Registration Area to Drum Area PS6 Registration Area to Drum Area PS7 Registration Area to Drum Area PS8 Registration Area to Drum Area	00	2901	Power ON JAM 2 (*2)	TOP Sensor Residual	PS2	Multi-purpose Tray
002907Power ON JAM 2 (*2)TOP Sensor ResidualPS2Registration Area to Drum Area002908Power ON JAM 2 (*2)Fixing Delivery Sensor ResidualPS13Drum Area to Fixing Area002909Power ON JAM 2 (*2)Delivery Tray Full Sensor ResidualPS4Fixing Area to Delivery Area00290DPower ON JAM 2 (*2)Duplex Feed Sensor ResidualPS21Duplex Feed Area003001Dooe Open JAM 1 (*1)TOP Sensor ResidualPS2Multi-purpose Tray003002Dooe Open JAM 1 (*1)TOP Sensor ResidualPS2Cassette 1003003Dooe Open JAM 1 (*1)TOP Sensor ResidualPS2Registration Area to Drum Area003007Dooe Open JAM 1 (*1)TOP Sensor ResidualPS2Registration Area to Drum Area003008Dooe Open JAM 1 (*1)Fixing Delivery Sensor ResidualPS13Drum Area to Fixing Area003009Dooe Open JAM 1 (*1)Duplex Feed Sensor ResidualPS24Fixing Area to Delivery Area00300DDooe Open JAM 1 (*1)Duplex Feed Sensor ResidualPS21Duplex Feed Area003807Wrap JAM 1TOP Sensor StationaryPS2Registration Area to Drum Area003808Wrap JAM 1TOP Sensor StationaryPS3Drum Area to Fixing Area004807Duplex Re-pickup JAM 1TOP Sensor StationaryPS2Registration Area to Drum Area004808Duplex Re-pickup JAM 1Fixing Delivery Sensor Stationa	00	2902	Power ON JAM 2 (*2)	TOP Sensor Residual	PS2	Cassette 1
Power ON JAM 2 (*2) Fixing Delivery Sensor Residual PS13 Drum Area to Fixing Area	00	2903	Power ON JAM 2 (*2)	TOP Sensor Residual	PS2	Cassette 2
Power ON JAM 2 (*2) Delivery Tray Full Sensor Residual PS4 Fixing Area to Delivery Area	00	2907	Power ON JAM 2 (*2)	TOP Sensor Residual	PS2	Registration Area to Drum Area
ual Delivery Tray Full Sensor Residual Desivery Area Doublex Feed Area Duplex Feed Area Fixing Delivery Sensor Stationary PS2 Registration Area to Drum Area Duplex Feed Area Fixing Delivery Sensor Stationary PS3 Drum Area to Fixing Area Duplex Feed Area Duplex Feed Area Duplex Feed Area Fixing Delivery Sensor Stationary PS4 Fixing Area to Delivery Area TOP Sensor Stationary PS4 Fixing Area to Delivery Area Duplex Feed Area Duplex Feed Area Duplex Feed Area Duplex Feed Area Fixing Delivery Sensor Stationary PS4 Fixing Area to Delivery Area Duplex Feed Area Fixing Area to Delivery Area Duplex Feed Area Duplex Feed Area Duplex Feed Area Fixing Area to Delivery Area Duplex Feed Area Duplex Feed Area Fixing Area to Delivery Area Delivery Area Duplex Feed Area Fixing Area to Delivery Area Duplex Feed Area Duplex Feed Area Fixing Area to Delivery Area Duplex Feed Area Duplex Feed Area Fixing Area to Delivery Area Delivery Area Delivery Tray Full Sensor Stationary Duplex Feed Area Fixing Area to Delivery Area	00	2908	Power ON JAM 2 (*2)	Fixing Delivery Sensor Residual	PS13	Drum Area to Fixing Area
003001Dooe Open JAM 1 (*1)TOP Sensor ResidualPS2Multi-purpose Tray003002Dooe Open JAM 1 (*1)TOP Sensor ResidualPS2Cassette 1003003Dooe Open JAM 1 (*1)TOP Sensor ResidualPS2Cassette 2003007Dooe Open JAM 1 (*1)TOP Sensor ResidualPS2Registration Area to Drum Area003008Dooe Open JAM 1 (*1)Fixing Delivery Sensor ResidualPS13Drum Area to Fixing Area003009Dooe Open JAM 1 (*1)Delivery Tray Full Sensor ResidualPS4Fixing Area to Delivery Area00300DDooe Open JAM 1 (*1)Duplex Feed Sensor ResidualPS21Duplex Feed Area003807Wrap JAM 1TOP Sensor StationaryPS2Registration Area to Drum Area003808Wrap JAM 1Fixing Delivery Sensor StationaryPS13Drum Area to Fixing Area003809Wrap JAM 1Delivery Tray Full Sensor StationaryPS4Fixing Area to Delivery Area004807Duplex Re-pickup JAM 1TOP Sensor StationaryPS2Registration Area to Drum Area004808Duplex Re-pickup JAM 1Fixing Delivery Sensor StationaryPS13Drum Area to Fixing Area004809Duplex Re-pickup JAM 1Delivery Tray Full Sensor StationaryPS4Fixing Area to Delivery Area	00	2909	Power ON JAM 2 (*2)		PS4	Fixing Area to Delivery Area
003002Dooe Open JAM 1 (*1)TOP Sensor ResidualPS2Cassette 1003003Dooe Open JAM 1 (*1)TOP Sensor ResidualPS2Cassette 2003007Dooe Open JAM 1 (*1)TOP Sensor ResidualPS2Registration Area to Drum Area003008Dooe Open JAM 1 (*1)Fixing Delivery Sensor ResidualPS13Drum Area to Fixing Area003009Dooe Open JAM 1 (*1)Delivery Tray Full Sensor ResidualPS4Fixing Area to Delivery Area00300DDooe Open JAM 1 (*1)Duplex Feed Sensor ResidualPS21Duplex Feed Area003807Wrap JAM 1TOP Sensor StationaryPS2Registration Area to Drum Area003808Wrap JAM 1Fixing Delivery Sensor StationaryPS13Drum Area to Fixing Area003809Wrap JAM 1Delivery Tray Full Sensor StationaryPS4Fixing Area to Delivery Area004807Duplex Re-pickup JAM 1TOP Sensor StationaryPS2Registration Area to Drum Area004808Duplex Re-pickup JAM 1TOP Sensor StationaryPS2Registration Area to Fixing Area004809Duplex Re-pickup JAM 1Delivery Tray Full Sensor StationaryPS4Fixing Area to Delivery Area	00	290D	Power ON JAM 2 (*2)	Duplex Feed Sensor Residual	PS21	Duplex Feed Area
003003Dooe Open JAM 1 (*1)TOP Sensor ResidualPS2Cassette 2003007Dooe Open JAM 1 (*1)TOP Sensor ResidualPS2Registration Area to Drum Area003008Dooe Open JAM 1 (*1)Fixing Delivery Sensor ResidualPS13Drum Area to Fixing Area003009Dooe Open JAM 1 (*1)Delivery Tray Full Sensor ResidualPS4Fixing Area to Delivery Area00300DDooe Open JAM 1 (*1)Duplex Feed Sensor ResidualPS21Duplex Feed Area003807Wrap JAM 1TOP Sensor StationaryPS2Registration Area to Drum Area003808Wrap JAM 1Fixing Delivery Sensor StationaryPS13Drum Area to Fixing Area003809Wrap JAM 1Delivery Tray Full Sensor StationaryPS4Fixing Area to Delivery Area004807Duplex Re-pickup JAM 1TOP Sensor StationaryPS2Registration Area to Drum Area004808Duplex Re-pickup JAM 1Fixing Delivery Sensor StationaryPS13Drum Area to Fixing Area004809Duplex Re-pickup JAM 1Delivery Tray Full Sensor StationaryPS4Fixing Area to Delivery Area	00	3001	Dooe Open JAM 1 (*1)	TOP Sensor Residual	PS2	Multi-purpose Tray
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003008Dooe Open JAM 1 (*1)Fixing Delivery Sensor ResidualPS13Drum Area to Fixing Area003009Dooe Open JAM 1 (*1)Delivery Tray Full Sensor ResidualPS4Fixing Area to Delivery Area00300DDooe Open JAM 1 (*1)Duplex Feed Sensor ResidualPS21Duplex Feed Area003807Wrap JAM 1TOP Sensor StationaryPS2Registration Area to Drum Area003808Wrap JAM 1Fixing Delivery Sensor StationaryPS13Drum Area to Fixing Area003809Wrap JAM 1Delivery Tray Full Sensor StationaryPS4Fixing Area to Delivery Area004807Duplex Re-pickup JAM 1TOP Sensor StationaryPS2Registration Area to Drum Area004808Duplex Re-pickup JAM 1Fixing Delivery Sensor StationaryPS13Drum Area to Fixing Area004809Duplex Re-pickup JAM 1Delivery Tray Full Sensor StationaryPS4Fixing Area to Delivery Area004809Duplex Re-pickup JAM 1Delivery Tray Full Sensor StationaryPS4Fixing Area to Delivery Area	00	3003	Dooe Open JAM 1 (*1)	TOP Sensor Residual	PS2	Cassette 2
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tionary 00 4807 Duplex Re-pickup JAM 1 TOP Sensor Stationary PS2 Registration Area to Drum Area 00 4808 Duplex Re-pickup JAM 1 Fixing Delivery Sensor Station- ary 00 4809 Duplex Re-pickup JAM 1 Delivery Tray Full Sensor Sta- tionary 1 TOP Sensor Station- pS13 Drum Area to Fixing Area 1 PS4 Fixing Area to Delivery Area	00	3808	Wrap JAM 1	,	PS13	Drum Area to Fixing Area
00 4808 Duplex Re-pickup JAM 1 Fixing Delivery Sensor Station- ary Duplex Re-pickup JAM 1 Delivery Tray Full Sensor Sta- tionary Fixing Area to Delivery Area	00	3809	Wrap JAM 1		PS4	Fixing Area to Delivery Area
ary Output Duplex Re-pickup JAM 1 Delivery Tray Full Sensor Sta- tionary Delivery Tray Full Sensor Sta- tionary	00	4807	Duplex Re-pickup JAM 1	TOP Sensor Stationary	PS2	Registration Area to Drum Area
tionary	00	4808	Duplex Re-pickup JAM 1	1 -	PS13	Drum Area to Fixing Area
00 480C Duplex Re-pickup JAM 1 Duplex Feed Sensor Stationary PS21 Duplex Reversing Area	00	4809	Duplex Re-pickup JAM 1	1	PS4	Fixing Area to Delivery Area
	00	480C	Duplex Re-pickup JAM 1	Duplex Feed Sensor Stationary	PS21	Duplex Reversing Area
00 480D Duplex Re-pickup JAM 1 Duplex Feed Sensor Stationary PS21 Duplex Feed Area	00	480D	Duplex Re-pickup JAM 1	Duplex Feed Sensor Stationary	PS21	Duplex Feed Area

*1:

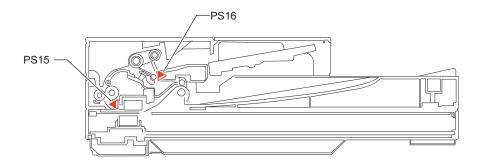
It is a jam that appears when door open is detected during printing.

When the power is turned OFF and then ON while the door open jam is detected, it is displayed as an internal stationary jam instead of a door open jam.

*2:

It is a jam that appears when residual paper is detected in the machine at power-on.

When the power is turned OFF and then ON while the door open jam is detected, it is displayed as an internal stationary jam instead of a door open jam.



ADF

Loca-	Jam	Ttpe	Sensor Name/Detection contents	Sensor ID	Area
tion	cod				
Code	е				
01	0001	Delay JAM	Document End Sensor Delay	PS15	ADF Pickup Feed Area
01	0002	Stationary JAM	Document End Sensor Stationary	PS15	ADF Pickup Feed Area
01	0021	Other	Document End Sensor	PS15	ADF Pickup Feed Area
01	0071	Sequence JAM (Timing error)	-	-	-
01	0094	Power-on JAM	Document End Sensor	PS15	ADF Pickup Feed Area
01	0096	Other	-	-	-

Alarm Code

Alarm Code	Area	Details	Cause	Remarks
	Developing Assembly, Host machine	' '	When the Toner Bottle empty was detected.	



Service Mode

Overview	204
COPIER (Service mode for printer)	.207
FEEDER (ADF service mode)	.283
FAX (FAX service mode)	285
TESTMODE (Service mode for test	
print, operation check, etc.)	291

Overview



Entering Service Mode

For information on how to enter service mode, contact the Support Dept. of the sales company.



Backing up Service Mode

Because setting values and management data of the host machine are stored in the eMMC of the Main Controller PCB, they need to be backed up before replacing the Main Controller PCB. (Do not remove the eMMC PCB form Main Controller PCB.) Also, restoration of the backup data is necessary after replacing the Main Controller PCB.

Backup: Connect a USB flash drive to the USB memory port.

COPIER > FUNCTION > SYSTEM > EXPORT

Restore: Restore backup data of the USB flash drive.

COPIER > FUNCTION > SYSTEM > IMPORT

NOTE:

As for the user data (the Settings/Registration data, etc.), be sure to back up the user data before replacing the Main Controller PCB and then restore it after replacement by either of the following methods:

Backup

- Menu > Management Settings > Data Management > Import/Export > Export
- Remote UI > Settings/Registration > Management Settings > Data Management > Import/Export > Export

Restore

- Menu > Management Settings > Data Management > Import/Export > Import
- Remote UI > Settings/Registration > Management Settings > Data Management > Import/Export > Import

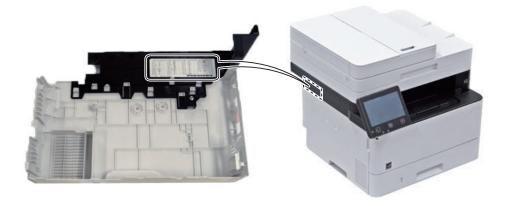


Service Label

In factory setting, adjustments are made for each machine, and adjustment values are written in the service label. In the case of the following, adjustment values for ADJUST or OPTION return to default. Therefore, when you made adjustments in the field.

- · Changed Main Controller PCB
- · Changed Engine Controller PCB
- · After RAM clear execution

Therefore, when you made adjustments and changed values of the Service Mode in the field, be sure to write down the changed values in the service label. When there is no relevant field in the service label, write down the values in a blank field.





■ Function Overview

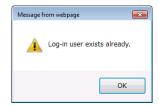
It is possible to display, configure, and execute various service mode modes as well as restart the host machine by using remote UI.



■ Operating conditions

In order to operate service mode using Remote UI, the following conditions must be met.

Service mode is not used on the Control Panel.
 If service mode is accessed from the Control Panel of the host machine, "Log-in user exists already." is displayed when service mode is accessed from Remote UI.



When Remote UI service mode (this function) is not being logged in by other users
 When service mode is being accessed from Remote UI, "Remote service mode" is displayed on the UI of the host machine.



- When Remote UI is enabled in the setting on the Control Panel [Settings/Registration] > [System Settings] > [Remote UI Settings] > [Use Remote UI] > [ON]
- When the following setting (Remote UI service mode function) is enabled (setting value: 1) in service mode COPIER > OPTION > BODY > RMT-SW 0:OFF(default), 1:ON

■ How to Use

1. Activate the Web browser, and access the following URL:

http://<Host machine's IP address or host name>/servicemode.html

2. Enter the password, and click [LOGIN].

Password required for authentication differs depending on the following service mode setting: COPIER > OPTION > BODY > PSWD-SW

Combinations of service mode settings and required passwords

PSWD-SW setting value	Password required for authentica- tion	Authentication screen
0	Password of remote UI service mode	LOGIN
1	Password of remote UI service mode Service mode password	Service Mode PIN:
2	 Password of RUI service mode User's system administrator ID Password of system administrator Service mode password 	System Manager ID: System Manager PIN: Service Mode PIN: LOGIN

NOTE:

- · If you do not know the password of remote UI service mode, contact the Support Dept. of the sales company.
- Password of service mode can be changed in COPIER > OPTION > BODY > SM-PSWD.
- 3. If you do not know the password of remote UI service mode, contact the Support Dept. of the sales company. When finishing the operation, click [REBOOT] or [Log Out].

NOTE

If the user logged in and then closed the browser without logging out, connection status remains as "LOGIN". If the user attempts to log in to service mode under "LOGIN" status, exclusive control is executed so that the user cannot access service mode. In that case, wait for a fixed time (3 minutes) from the last access to let the user be automatically logged out, or turn OFF/ON the power of the machine to be forcibly logged out.

COPIER (Service mode for printer)



DISPLAY (State display mode)

■ VERSION

COPIER (Service mode for printer) > DISPLAY (State display mode) > VERSION

MAIN	Display of Bootable 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	00.00 to 99.99
BOOT	Display of BootROM version
Detail	To display the version of Boot ROM (BOOT program).
Use Case	When upgrading the firmware
Adj/Set/Operate Method	N/A (Display only)
Display/Adj/Set Range	00.00 to 99.99
LANG	Display of language pack version
Detail	To display the version of language pack.
Use Case	When upgrading the firmware
Adj/Set/Operate Method	N/A (Display only)
Display/Adj/Set Range	00.00 to 99.99
DEMODATA	Display of demo print data version
Detail	To display the version of demo print data. For the models not having demo print function, "FF.FF" is displayed.
Use Case	When upgrading the firmware
Adj/Set/Operate Method	N/A (Display only)
Display/Adj/Set Range	00.00 to 99.99
ECONT	Display of DC Controller version
Detail	To display the version of DC Controller PCB.
Use Case	When upgrading the firmware
Adj/Set/Operate Method	N/A (Display only)
Display/Adj/Set Range	00.00 to 99.99
PANEL	Display of firmware version of panel
Detail	To display the firmware version of Control Panel CPU PCB.
Use Case	When upgrading the firmware
Adj/Set/Operate Method	N/A (Display only)
Display/Adj/Set Range	00.00 to 99.99
Related Service Mode	COPIER> FUNCTION> SYSTEM> PANEL-UP
ECO	For R&D

■ USER

COPIER (Service mode for printer) > DISPLAY (State display mode) > USER

SPDTYPE	Display of engine speed type	
Detail	Detail To display the engine speed type (ppm) of this machine.	
Use Case	When checking the engine speed type	
Adj/Set/Operate Method N/A (Display only)		
Display/Adj/Set Range	0 to 99	
Default Value	0	

■ CCD

COPIER (Service mode for printer) > DISPLAY (State display mode) > CCD

,	, , , , , , , , , , , , , , , , , , , ,	
TARGET-B	Display of shading target value (B)	
Detail	To display the shading target value of Blue. Continuous display of 0 (minimum) or 2048 (maximum) is considered as a failure of the Scanner Unit.	
Use Case	At scanned image failure	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 2048	
Default Value	1202	
Related Service Mode	COPIER> ADJUST> CCD> DFTAR-B	
TARGET-G	Display of shading target value (G)	
Detail	To display the shading target value of Green. Continuous display of 0 (minimum) or 2048 (maximum) is considered as a failure of the Scanner Unit.	
Use Case	At scanned image failure	
Adj/Set/Operate Method	N/A (Display only)	
Display/Adj/Set Range	0 to 2048	
Default Value	1163	
Related Service Mode	COPIER> ADJUST> CCD> DFTAR-G	
TARGET-R	Display of shading target value (R)	
TARGET-R Detail	Display of shading target value (R) To display the shading target value of Red. Continuous display of 0 (minimum) or 2048 (maximum) is considered as a failure of the Scanner Unit.	
	To display the shading target value of Red. Continuous display of 0 (minimum) or 2048 (maximum) is considered as a failure of the Scanner	
Detail	To display the shading target value of Red. Continuous display of 0 (minimum) or 2048 (maximum) is considered as a failure of the Scanner Unit.	
Detail Use Case	To display the shading target value of Red. Continuous display of 0 (minimum) or 2048 (maximum) is considered as a failure of the Scanner Unit. At scanned image failure	
Detail Use Case Adj/Set/Operate Method	To display the shading target value of Red. Continuous display of 0 (minimum) or 2048 (maximum) is considered as a failure of the Scanner Unit. At scanned image failure N/A (Display only)	
Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range	To display the shading target value of Red. Continuous display of 0 (minimum) or 2048 (maximum) is considered as a failure of the Scanner Unit. At scanned image failure N/A (Display only) 0 to 2048	
Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value	To display the shading target value of Red. Continuous display of 0 (minimum) or 2048 (maximum) is considered as a failure of the Scanner Unit. At scanned image failure N/A (Display only) 0 to 2048 1135	
Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value Related Service Mode	To display the shading target value of Red. Continuous display of 0 (minimum) or 2048 (maximum) is considered as a failure of the Scanner Unit. At scanned image failure N/A (Display only) 0 to 2048 1135 COPIER> ADJUST> CCD> DFTAR-R	
Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value Related Service Mode TARGETBW	To display the shading target value of Red. Continuous display of 0 (minimum) or 2048 (maximum) is considered as a failure of the Scanner Unit. At scanned image failure N/A (Display only) 0 to 2048 1135 COPIER> ADJUST> CCD> DFTAR-R Display of shading target value (B&W) To display the shading target value at B&W jobs. Continuous display of 0 (minimum) or 2048 (maximum) is considered a failure of the Main	
Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value Related Service Mode TARGETBW Detail	To display the shading target value of Red. Continuous display of 0 (minimum) or 2048 (maximum) is considered as a failure of the Scanner Unit. At scanned image failure N/A (Display only) 0 to 2048 1135 COPIER> ADJUST> CCD> DFTAR-R Display of shading target value (B&W) To display the shading target value at B&W jobs. Continuous display of 0 (minimum) or 2048 (maximum) is considered a failure of the Main Controller PCB.	
Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value Related Service Mode TARGETBW Detail	To display the shading target value of Red. Continuous display of 0 (minimum) or 2048 (maximum) is considered as a failure of the Scanner Unit. At scanned image failure N/A (Display only) 0 to 2048 1135 COPIER> ADJUST> CCD> DFTAR-R Display of shading target value (B&W) To display the shading target value at B&W jobs. Continuous display of 0 (minimum) or 2048 (maximum) is considered a failure of the Main Controller PCB. At scanned image failure	
Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value Related Service Mode TARGETBW Detail Use Case Adj/Set/Operate Method	To display the shading target value of Red. Continuous display of 0 (minimum) or 2048 (maximum) is considered as a failure of the Scanner Unit. At scanned image failure N/A (Display only) 0 to 2048 1135 COPIER> ADJUST> CCD> DFTAR-R Display of shading target value (B&W) To display the shading target value at B&W jobs. Continuous display of 0 (minimum) or 2048 (maximum) is considered a failure of the Main Controller PCB. At scanned image failure N/A (Display only)	

COPIER (Service mode for printer) > DISPLAY (State display mode) > CCD

COPIER (Service mode for p	rinter) > DISPLAY (State display mode) > CCD		
BK-SHDST	Display paper back shading correct result		
Detail	To display the paper back shading correction result. Whether the results of BK-SHD1 and BK-SHD2 are correct is displayed.		
Use Case	When replacing the Scanner Unit (for back side)		
Adj/Set/Operate Method	N/A (Display only)		
Display/Adj/Set Range	0 to 1 0: NG 1: OK		
Related Service Mode	COPIER> FUNCTION> CCD> BK-SHD1/2		
1P-ERR-A	Frt/bck clr dif calibr PG read rslt: frt		
Detail	To display the result of reading of PG for calibrating color difference between the front and back sides with the Scanner Unit (for front side). If 1 is displayed in both this item and 1P-ERR-B, it means that calibration for color difference on front and back sides has succeeded.		
Adj/Set/Operate Method	N/A (Display only)		
Display/Adj/Set Range	0 to 8 0: Reading is not executed 1: Reading is executed 2: Reading failed (e.g.: no originals placed, jam) 3: Detection of patch edge failed (e.g.: 1st/2nd side of original reversed) 4: Failed because the degree of skew of original was too large 5: Invalid patch reading value (e.g.: original was upside down) 6: Failed due to other causes 7 to 8: Not used		
Default Value	0		
Related Service Mode	COPIER> FUNCTION> MISC-R> 1PSCLB-A COPIER> DISPLAY> CCD> 1P-ERR-B		
1P-ERR-B	Frt/bck clr dif calibr PG read rslt: bck		
Detail	 Detail To display the result of reading of PG for calibrating color difference between the front and ba sides with the Scanner Unit (for back side). If 1 is displayed in both this item and 1P-ERR-A, it means that calibration for color difference of front and back sides has succeeded. 		
Adj/Set/Operate Method	N/A (Display only)		
Display/Adj/Set Range 0 to 8 0: Reading is not executed 1: Reading is executed 2: Reading failed (e.g.: no originals placed, jam) 3: Detection of patch edge failed (e.g.: 1st/2nd side of original reversed) 4: Failed because the degree of skew of original was too large 5: Invalid patch reading value (e.g.: original was upside down) 6: Failed due to other causes 7 to 8: Not used			
Default Value	0		
Related Service Mode COPIER> FUNCTION> MISC-R> 1PSCLB-B COPIER> DISPLAY> CCD> 1P-ERR-A			

I/O (I/O display mode)

■ Reader (R-CON > P001)

Address	bit	Name	Symbol	Remarks
P001	7	-	-	-
	6	-	-	-
	5	-	-	-

Address	bit	Name	Symbol	Remarks
P001	4	-	-	-
	3	-	-	-
	2	CIS HP Sensor	PS14	H: HP
	1	Document Sensor	PS16	H: Paper
	0	Document End Sensor	PS15	H: Paper



ADJUST (Adjustment mode)

■ ADJ-XY

SOPIER (Service mode for p	orinter) > ADJUST (Adjustment mode) > ADJ-XY	
ADJ-X	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 Main Controller PCB, 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 Unit - When replacing the Scanner Unit - When replacing the Main Controller PCB	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-30 to 30	
Unit	0.1 mm	
Default Value	0	
ADJ-Y	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 Main Controller PCB, 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 UnitWhen replacing the Scanner UnitWhen replacing the Main Controller PCB	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	-15 to 15	
Unit	0.1 mm	
Default Value	0	

COFIER (Service mode for p	officer) > ADJOST (Adjustifient fliode) > ADJ-X1		
ADJ-Y-DF	Adj start pstn: stream, horz scan, front		
Detail	To adjust the front side image reading start position in horizontal scanning direction at stream reading. When replacing the Main Controller PCB, enter the value of service label. As the value is incremented by 1, the image position is moved to the front side by 0.1 mm.		
- When installing/uninstalling the ADF - When replacing the Scanner Unit - When replacing the Main Controller PCB			
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.		
Caution	After the setting value is changed, write the changed value in the service label.		
Display/Adj/Set Range	-15 to 15		
Unit	0.1 mm		
Default Value	0		
ADJY-DF2	Adj start pstn: stream, horz scan, back		
Detail	To adjust the back side image reading start position in horizontal scanning direction at stream reading. When replacing the Main Controller PCB, 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 installing/uninstalling the ADFWhen replacing the Scanner UnitWhen replacing the Main Controller PCB		
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.		
Caution	After the setting value is changed, write the changed value in the service label.		
Display/Adj/Set Range	-15 to 15		
Unit	0.1 mm		
Default Value	0		
ADJ-X-MG	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 Main 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 installing/uninstalling the ADF When replacing the Scanner Unit When replacing the Main Controller PCB 		
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.		
Caution	After the setting value is changed, write the changed value in the service label.		
Display/Adj/Set Range	-200 to 200		
Unit	0.01%		
Default Value	0		

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Adj Scan Unit pstn: stream, fd way, frt
To adjust the position of the Scanner Unit on the Reader side in feed direction at stream reading When replacing the Main Controller PCB, enter the value of service label. The setting is applied to only the image on the front side.
- When installing/uninstalling the ADF - When replacing the Scanner Unit - When replacing the Main Controller PCB
Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
After the setting value is changed, write the changed value in the service label.
-30 to 20
0.1 mm
0
COPIER> FUNCTION> INSTALL> STRD-POS
Adjustment of Reader shading position
To adjust the position of the Scanner Unit on the Reader side 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
- When black lines/white lines appear - When replacing the Scanner Unit - When clearing the Reader-related RAM data
Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
After the setting value is changed, write the changed value in the service label.
-20 to 20
0.1 mm
0
COPIER> FUNCTION> INSTALL> RDSHDPOS

■ CCD

W-PLT-X	Stdrd White Plt white Ivl data (X) entry	
Detail	To enter the white level data (X) for the Standard White Plate. When replacing the Reader Unit, Reader Upper Cover Unit or Main Controller PCB, enter "XXXX" of the value (XXXXYYYYZZZZ) shown on the barcode label affixed at the upper left of the Copyboard Glass.	
Use Case	When replacing the Reader UnitWhen replacing the Reader Upper Cover UnitWhen replacing the Main Controller PCB	
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/Adj/Set Range	7000 to 9999	
Default Value	8273	
Related Service Mode	COPIER > ADJUST> CCD> W-PI T-Y/7	

COPIER (Service mode for p	officer) > ADJUST (Adjustment mode) > CCD		
W-PLT-Y	Stdrd White Plt white IvI data (Y) entry		
Detail	To enter the white level data (Y) for the Standard White Plate. When replacing the Reader Unit, Reader Upper Cover Unit or Main Controller PCB, enter "YYYY of the value (XXXXYYYYZZZZ) shown on the barcode label affixed at the upper left of the Copyboard Glass.		
Use Case	When replacing the Reader UnitWhen replacing the Reader Upper Cover UnitWhen replacing the Main Controller PCB		
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.		
Caution	After the setting value is changed, write the changed value in the service label.		
Display/Adj/Set Range	7000 to 9999		
Default Value	8737		
Related Service Mode	COPIER.> ADJUST> CCD> W-PLT-X/Z		
W-PLT-Z	Stdrd White PIt white IvI data (Z) entry		
Detail	To enter the white level data (Z) for the Standard White Plate. When replacing the Reader Unit, Reader Upper Cover Unit or Main Controller PCB, enter "ZZZZ" of the value (XXXXYYYYZZZZ) shown on the barcode label affixed at the upper left of the Copyboard Glass.		
Use Case	- When replacing the Reader Unit - When replacing the Reader Upper Cover Unit - When replacing the Main Controller PCB		
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.		
Caution	After the setting value is changed, write the changed value in the service label.		
Display/Adj/Set Range	7000 to 9999		
Default Value	9427		
Related Service Mode	COPIER.> ADJUST> CCD> W-PLT-X/Y		
DFTAR-R	Shading target VL (R) entry: front side		
Detail	To enter the shading target value of Red of the Scanner Unit (for front side) at stream reading. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. When replacing the Reader Unit, Scanner Unit, or Reader Upper Cover Unit, execute DF-WLVL1 and DF-WLVL2 and write the value which is automatically set in the service label. The setting is applied to only the image on the front side.		
Use Case	 When replacing the Main Controller PCB/clearing RAM data When replacing the Reader Unit When replacing the Scanner Unit When replacing the Reader Upper Cover Unit 		
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.		
Display/Adj/Set Range	0 to 2048		
Default Value	1105		
Related Service Mode COPIER> DISPLAY> CCD> TARGET-R COPIER> FUNCTION> CCD> DF-WLVL1/2			

COFIER (Service mode for p	orinter) > ADJUST (Adjustment mode) > CCD		
DFTAR-G	Shading target VL (G) entry: front side		
Detail	To enter the shading target value of Green of the Scanner Unit (for front side) at stream reading. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. When replacing the Reader Unit, Scanner Unit, or Reader Upper Cover Unit, execute DF-WLVL1 and DF-WLVL2 and write the value which is automatically set in the service label. The setting is applied to only the image on the front side.		
Use Case	 When replacing the Main Controller PCB/clearing RAM data When replacing the Reader Unit When replacing the Scanner Unit When replacing the Reader Upper Cover Unit 		
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.		
Display/Adj/Set Range	0 to 2048		
Default Value	1129		
Related Service Mode	COPIER> DISPLAY> CCD> TARGET-G COPIER> FUNCTION> CCD> DF-WLVL1/2		
DFTAR-B	Shading target VL (B) entry: front side		
Detail	To enter the shading target value of Blue of the Scanner Unit (for front side) at stream reading. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. When replacing the Reader Unit, Scanner Unit, or Reader Upper Cover Unit, execute DF-WLVL1 and DF-WLVL2 and write the value which is automatically set in the service label. The setting is applied to only the image on the front side.		
Use Case	 When replacing the Main Controller PCB/clearing RAM data When replacing the Reader Unit When replacing the Scanner Unit When replacing the Reader Upper Cover Unit 		
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.		
Display/Adj/Set Range	0 to 2048		
Default Value	1151		
Related Service Mode	COPIER> DISPLAY> CCD> TARGET-B COPIER> FUNCTION> CCD> DF-WLVL1/2		
DFTAR-BW	Shading target VL (B&W) entry: front		
Detail	To enter the B&W shading target value of the Scanner Unit (for front side) at stream reading. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. When replacing the Reader Unit, Scanner Unit, or Reader Upper Cover Unit, execute DF-WLVL1 and DF-WLVL2 and write the value which is automatically set in the service label. The setting is applied to only the image on the front side.		
Use Case	- When replacing the Main Controller PCB/clearing RAM data - When replacing the Reader Unit - When replacing the Scanner Unit - When replacing the Reader Upper Cover Unit		
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.		
Display/Adj/Set Range	0 to 2048		
Default Value	1072		
Related Service Mode	COPIER> DISPLAY> CCD> TARGETBW COPIER> FUNCTION> CCD> DF-WLVL1/2		

COPIER (Service mode for p	printer) > ADJUST (Adjustment mode) > CCD		
DFTBK-R	Shading target VL (R) entry: back side		
Detail	To enter the shading target value of Red of the Scanner Unit (for back side) at stream reading. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. When replacing the Reader Unit, Scanner Unit, or Reader Upper Cover Unit, execute DF-WLVL and DF-WLVL2 and write the value which is automatically set in the service label. The setting is applied to only the image on the back side.		
Use Case	 When replacing the Main Controller PCB/clearing RAM data When replacing the Reader Unit When replacing the Scanner Unit When replacing the Reader Upper Cover Unit 		
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.		
Display/Adj/Set Range	0 to 2048		
Default Value	1105		
Related Service Mode	COPIER> DISPLAY> CCD> TARGET-R COPIER> FUNCTION> CCD> DF-WLVL1/2		
DFTBK-G	Shading target VL (G) entry: back side		
Detail	To enter the shading target value of Green of the Scanner Unit (for back side) at stream reading When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. When replacing the Reader Unit, Scanner Unit, or Reader Upper Cover Unit, execute DF-WLVL and DF-WLVL2 and write the value which is automatically set in the service label. The setting is applied to only the image on the back side.		
Use Case	 When replacing the Main Controller PCB/clearing RAM data When replacing the Reader Unit When replacing the Scanner Unit When replacing the Reader Upper Cover Unit 		
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.		
Display/Adj/Set Range	0 to 2048		
Default Value	1129		
Related Service Mode	COPIER> DISPLAY> CCD> TARGET-G COPIER> FUNCTION> CCD> DF-WLVL1/2		
DFTBK-B	Shading target VL (B) entry: back side		
Detail	To enter the shading target value of Blue of the Scanner Unit (for back side) at stream reading. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. When replacing the Reader Unit, Scanner Unit, or Reader Upper Cover Unit, execute DF-WLVL and DF-WLVL2 and write the value which is automatically set in the service label. The setting is applied to only the image on the back side.		
Use Case	 When replacing the Main Controller PCB/clearing RAM data When replacing the Reader Unit When replacing the Scanner Unit When replacing the Reader Upper Cover Unit 		
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.		
Display/Adj/Set Range	0 to 2048		
Default Value	1151		
Related Service Mode	COPIER> DISPLAY> CCD> TARGET-B COPIER> FUNCTION> CCD> DF-WLVL1/2		

COLIER (Service mode for p	miller) > ADJOST (Adjustment mode) > CCD
DFTBK-BW	Shading target VL (B&W) entry: back
Detail	To enter the B&W shading target value of the Scanner Unit (for back side) at stream reading. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. When replacing the Reader Unit, Scanner Unit, or Reader Upper Cover Unit, execute DF-WLVL1 and DF-WLVL2 and write the value which is automatically set in the service label. The setting is applied to only the image on the back side.
Use Case	 When replacing the Main Controller PCB/clearing RAM data When replacing the Reader Unit When replacing the Scanner Unit When replacing the Reader Upper Cover Unit
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 2048
Default Value	1072
Related Service Mode	COPIER> DISPLAY> CCD> TARGETBW COPIER> FUNCTION> CCD> DF-WLVL1/2
50-RG	RG clr displace correct: 50% book mode
Detail	To correct the color displacement between R and G lines in vertical scanning direction that occurs at 50% copyboard reading. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
Caution	After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range	-512 to 512
Unit	0.001 line
Default Value	-333
Supplement/Memo	50% reading: 300 dpi in horizontal scanning direction x 600 dpi in vertical scanning direction
50-GB	GB clr displace correct: 50% book mode
Detail	To correct the color displacement between G and B lines in vertical scanning direction that occurs at 50% copyboard reading. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
Caution	After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range	-512 to 512
Unit	0.001 line
Default Value	333
Supplement/Memo	50% reading: 300 dpi in horizontal scanning direction x 600 dpi in vertical scanning direction
100-RG	RG clr displace correct: 100% book mode
Detail	To correct the color displacement between R and G lines in vertical scanning direction that occurs at 100% copyboard reading. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
Caution	After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range	-512 to 512
Unit	0.001 line
Default Value	-333
Supplement/Memo	100 reading: 600 dpi in horizontal scanning direction x 600 dpi in vertical scanning direction

SOPIER (Service mode for p	filler) - AD3031 (Adjustment mode) - CCD
100-GB	GB clr displace correct: 100% book mode
Detail	To correct the color displacement between G and B lines in vertical scanning direction that occurs at 100% copyboard reading.
	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
Caution	After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range	-512 to 512
Unit	0.001 line
Default Value	333
Supplement/Memo	100 reading: 600 dpi in horizontal scanning direction x 600 dpi in vertical scanning direction
50DF-RG	RG clr displace crrct: 50% ADF, front
Detail	To correct the color displacement between R and G lines in vertical scanning direction that occurs at 50% ADF mode.
	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to only the image on the front side.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
Caution	After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range	-512 to 512
Unit	0.001 line
Default Value	-333
Supplement/Memo	50% reading: 300 dpi in horizontal scanning direction x 600 dpi in vertical scanning direction
50DF-GB	GB clr displace crrct: 50% ADF, front
Detail	To correct the color displacement between G and B lines in vertical scanning direction that occurs
	at 50% ADF mode.
	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to only the image on the front side.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
Caution	After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range	-512 to 512
Unit	0.001 line
Default Value	333
Supplement/Memo	50% reading: 300 dpi in horizontal scanning direction x 600 dpi in vertical scanning direction
100DF-RG	RG clr displace crrct: 100% ADF, front
Detail	To correct the color displacement between R and G lines in vertical scanning direction that occur
Detail	at 100% ADF mode.
	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
	The setting is applied to only the image on the front side.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
Caution	After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range	-512 to 512
Display/Adj/Set Range	0.12.60.012
Unit	0.001 line

JOPIER (Service mode for p	orinter) > ADJUST (Adjustment mode) > CCD
100DF-GB	GB clr displace crrct: 100% ADF, front
Detail	To correct the color displacement between G and B lines in vertical scanning direction that occurs at 100% ADF mode.
	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
	The setting is applied to only the image on the front side.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
Caution	After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range	-512 to 512
Unit	0.001 line
Default Value	333
Supplement/Memo	100 reading: 600 dpi in horizontal scanning direction x 600 dpi in vertical scanning direction
50DF2RG	RG clr displace crrct: 50% ADF, back
Detail	To correct the color displacement between R and G lines in vertical scanning direction that occurs at 50% ADF mode.
	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to only the image on the back side.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
Caution	After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range	-512 to 512
Unit	0.001 line
Default Value	-333
Supplement/Memo	50% reading: 300 dpi in horizontal scanning direction x 600 dpi in vertical scanning direction
50DF2GB	GB clr displace crrct: 50% ADF, back
Detail	To correct the color displacement between G and B lines in vertical scanning direction that occurs at 50% ADF mode.
	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to only the image on the back side.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
Caution	After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range	-512 to 512
Unit	0.001 line
Default Value	333
Supplement/Memo	50% reading: 300 dpi in horizontal scanning direction x 600 dpi in vertical scanning direction
100DF2RG	
Detail	RG clr displace crrct: 100% ADF, back
	To correct the color displacement between R and G lines in vertical scanning direction that occurs at 100% ADF mode.
	To correct the color displacement between R and G lines in vertical scanning direction that occurs at 100% ADF mode. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to only the image on the back side.
Use Case	To correct the color displacement between R and G lines in vertical scanning direction that occurs at 100% ADF mode. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to only the image on the back side. When replacing the Main Controller PCB/clearing RAM data
Use Case Adj/Set/Operate Method	To correct the color displacement between R and G lines in vertical scanning direction that occurs at 100% ADF mode. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to only the image on the back side. When replacing the Main Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
	To correct the color displacement between R and G lines in vertical scanning direction that occurs at 100% ADF mode. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to only the image on the back side. When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	To correct the color displacement between R and G lines in vertical scanning direction that occurs at 100% ADF mode. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to only the image on the back side. When replacing the Main Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
Adj/Set/Operate Method Caution	To correct the color displacement between R and G lines in vertical scanning direction that occurs at 100% ADF mode. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to only the image on the back side. When replacing the Main Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key), and then press Apply key. After the setting value is changed, write the changed value in the service label.
Adj/Set/Operate Method Caution Display/Adj/Set Range	To correct the color displacement between R and G lines in vertical scanning direction that occurs at 100% ADF mode. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to only the image on the back side. When replacing the Main Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key), and then press Apply key. After the setting value is changed, write the changed value in the service label. -512 to 512

COPIER (Service mode for p	······································
100DF2GB	GB clr displace crrct: 100% ADF, back
Detail	To correct the color displacement between G and B lines in vertical scanning direction that occurs at 100% ADF mode. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to only the image on the back side.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
Caution	After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range	-512 to 512
Unit	0.001 line
Default Value	333
Supplement/Memo	100 reading: 600 dpi in horizontal scanning direction x 600 dpi in vertical scanning direction
MTF2-M1	MTF value 1 entry:ADF, front, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF2-M2	MTF value 2 entry:ADF, front, horz scan
MTF2-M2 Detail	MTF value 2 entry:ADF, front, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader.
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data
Detail Use Case	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)
Detail Use Case Adj/Set/Operate Method	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key.
Use Case Adj/Set/Operate Method Display/Adj/Set Range	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 100
Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 3 entry:ADF, front, horz scan
Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF2-M3	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 3 entry:ADF, front, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader.
Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF2-M3 Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 3 entry:ADF, front, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data
Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF2-M3 Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 3 entry:ADF, front, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)

COPIER (Service mode for p	printer) > ADJUST (Adjustment mode) > CCD
MTF2-M4	MTF value 4 entry:ADF, front, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction of the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	When replacing the Main Controller PCB/clearing the Reader-related RAM dataWhen replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF2-M5	MTF value 5 entry:ADF, front, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	When replacing the Main Controller PCB/clearing the Reader-related RAM dataWhen replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF2-M6	MTF value 6 entry:ADF, front, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF2-M7	MTF value 7 entry:ADF, front, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	 When replacing the Main Controller PCB/clearing the Reader-related RAM data When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100

COPIER (Service mode for p	(rajadiment mede)
MTF2-M8	MTF value 8 entry:ADF, front, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	 When replacing the Main Controller PCB/clearing the Reader-related RAM data When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF2-M9	MTF value 9 entry:ADF, front, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF2-S1	MTF value 1 entry:ADF, front, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Detail Use Case	front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader.
	front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data
Use Case	front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)
Use Case Adj/Set/Operate Method	front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key.
Use Case Adj/Set/Operate Method Display/Adj/Set Range	front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100
Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value	front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 100
Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF2-S2	front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 2 entry:ADF, front, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader.
Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF2-S2 Detail	front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 2 entry:ADF, front, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data
Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF2-S2 Detail Use Case	front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 2 entry:ADF, front, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)

COPIER (Service mode for p	inner) > ADJUST (Adjustment mode) > CCD
MTF2-S3	MTF value 3 entry:ADF, front, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	 When replacing the Main Controller PCB/clearing the Reader-related RAM data When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF2-S4	MTF value 4 entry:ADF, front, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	 When replacing the Main Controller PCB/clearing the Reader-related RAM data When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF2-S5	MTF value 5 entry:ADF, front, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF2-S6	MTF value 6 entry:ADF, front, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100

COPIER (Service mode for pr MTF2-S7	MTF value 7 entry:ADF, front, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	When replacing the Main Controller PCB/clearing the Reader-related RAM dataWhen replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF2-S8	MTF value 8 entry:ADF, front, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	When replacing the Main Controller PCB/clearing the Reader-related RAM dataWhen replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF2-S9	MTF value 9 entry:ADF, front, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF-M1	MTF value 1 entry: Copyboard, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
	- When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key.

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MTF-M2	MTF value 2 entry: Copyboard, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF-M3	MTF value 3 entry: Copyboard, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	 When replacing the Main Controller PCB/clearing the Reader-related RAM data When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Adj/Set/Operate Method Display/Adj/Set Range	- <u> </u>
•	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	Enter the setting value, and then press Apply key. 0 to 100
Display/Adj/Set Range Default Value	Enter the setting value, and then press Apply key. 0 to 100 100
Display/Adj/Set Range Default Value MTF-M4	Enter the setting value, and then press Apply key. 0 to 100 MTF value 4 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader.
Display/Adj/Set Range Default Value MTF-M4 Detail	Enter the setting value, and then press Apply key. 0 to 100 MTF value 4 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data
Display/Adj/Set Range Default Value MTF-M4 Detail Use Case	Enter the setting value, and then press Apply key. 0 to 100 MTF value 4 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)
Display/Adj/Set Range Default Value MTF-M4 Detail Use Case Adj/Set/Operate Method	Enter the setting value, and then press Apply key. 0 to 100 MTF value 4 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key.
Display/Adj/Set Range Default Value MTF-M4 Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range	Enter the setting value, and then press Apply key. 0 to 100 MTF value 4 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100
Display/Adj/Set Range Default Value MTF-M4 Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value	Enter the setting value, and then press Apply key. 0 to 100 MTF value 4 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 100
Display/Adj/Set Range Default Value MTF-M4 Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF-M5	Enter the setting value, and then press Apply key. 0 to 100 MTF value 4 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 5 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader.
Display/Adj/Set Range Default Value MTF-M4 Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF-M5 Detail	Enter the setting value, and then press Apply key. 0 to 100 MTF value 4 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 5 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data
Display/Adj/Set Range Default Value MTF-M4 Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF-M5 Detail	Enter the setting value, and then press Apply key. 0 to 100 MTF value 4 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 5 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)

COPIER (Service mode for p	rinter) > ADJUST (Adjustment mode) > CCD
MTF-M6	MTF value 6 entry: Copyboard, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader.
	When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF-M7	MTF value 7 entry: Copyboard, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader.
	When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	When replacing the Main Controller PCB/clearing the Reader-related RAM dataWhen replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
Delault Value	100
MTF-M8	MTF value 8 entry: Copyboard, horz scan
MTF-M8	MTF value 8 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader.
MTF-M8 Detail	MTF value 8 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data
MTF-M8 Detail Use Case	MTF value 8 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)
MTF-M8 Detail Use Case Adj/Set/Operate Method	MTF value 8 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key.
MTF-M8 Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range	MTF value 8 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100
MTF-M8 Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value	MTF value 8 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 100
MTF-M8 Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF-M9	MTF value 8 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 9 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader.
MTF-M8 Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF-M9 Detail	MTF value 8 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 9 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data
MTF-M8 Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF-M9 Detail	MTF value 8 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 9 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)

COPIER (Service mode for p	rinter) > ADJUST (Adjustment mode) > CCD
MTF-S1	MTF value entry: Copyboard, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF-S2	MTF value 2 entry: Copyboard, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
Default Value MTF-S3	MTF value 3 entry: Copyboard, vert scan
MTF-S3	MTF value 3 entry: Copyboard, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader.
MTF-S3 Detail	MTF value 3 entry: Copyboard, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data
MTF-S3 Detail Use Case	MTF value 3 entry: Copyboard, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)
MTF-S3 Detail Use Case Adj/Set/Operate Method	MTF value 3 entry: Copyboard, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key.
MTF-S3 Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range	MTF value 3 entry: Copyboard, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100
MTF-S3 Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value	MTF value 3 entry: Copyboard, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 100
MTF-S3 Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF-S4	MTF value 3 entry: Copyboard, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 4 entry: Copyboard, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader.
MTF-S3 Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF-S4 Detail	MTF value 3 entry: Copyboard, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 4 entry: Copyboard, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data
Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF-S4 Detail Use Case	MTF value 3 entry: Copyboard, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 4 entry: Copyboard, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)

COPIER (Service mode for p	Amiliar) - Abooot (Augustinom modo) - oob
MTF-S5	MTF value 5 entry: Copyboard, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	 When replacing the Main Controller PCB/clearing the Reader-related RAM data When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF-S6	MTF value 6 entry: Copyboard, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	When replacing the Main Controller PCB/clearing the Reader-related RAM dataWhen replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF-S7	MTF value 7 entry: Copyboard, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value
	of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	of the service label on the reader.
Use Case Adj/Set/Operate Method	of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data
	of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key.
Adj/Set/Operate Method Display/Adj/Set Range	of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100
Adj/Set/Operate Method Display/Adj/Set Range Default Value	of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 100
Adj/Set/Operate Method Display/Adj/Set Range Default Value	of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 8 entry: Copyboard, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader.
Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF-S8	of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 8 entry: Copyboard, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data
Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF-S8 Detail	of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 8 entry: Copyboard, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)

COPIER (Service mode for p	printer) > ADJUST (Adjustment mode) > CCD
MTF-S9	MTF value 9 entry: Copyboard, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for front side), enter the value of service label on a new unit.
Use Case	 When replacing the Main Controller PCB/clearing the Reader-related RAM data When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF3-M1	MTF value 1 entry: ADF, back, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction of the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit.
Use Case	When replacing the Main Controller PCB/clearing the Reader-related RAM dataWhen replacing the Scanner Unit (for back side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF3-M2	MTF value 2 entry: ADF, back, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction of the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit.
Use Case	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for back side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF3-M3	MTF value 3 entry: ADF, back, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction of the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit.
Use Case	 When replacing the Main Controller PCB/clearing the Reader-related RAM data When replacing the Scanner Unit (for back side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100

SOPIER (Service mode for p	orinter) > ADJUST (Adjustment mode) > CCD
MTF3-M4	MTF value 4 entry: ADF, back, horz scan
Detail Use Case	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data
	- When replacing the Scanner Unit (for back side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF3-M5	MTF value 5 entry: ADF, back, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit.
Use Case	When replacing the Main Controller PCB/clearing the Reader-related RAM dataWhen replacing the Scanner Unit (for back side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF3-M6	MTF value 6 entry: ADF, back, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit.
Use Case	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for back side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF3-M7	MTF value 7 entry: ADF, back, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit.
Use Case	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for back side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100

COLIETY (Service mode for p	rinter) > ADJUST (Adjustment mode) > CCD
MTF3-M8	MTF value 8 entry: ADF, back, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit.
Use Case	When replacing the Main Controller PCB/clearing the Reader-related RAM dataWhen replacing the Scanner Unit (for back side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF3-M9	MTF value 9 entry: ADF, back, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit.
Use Case	When replacing the Main Controller PCB/clearing the Reader-related RAM dataWhen replacing the Scanner Unit (for back side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF3-S1	MTF value 1 entry: ADF, back, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit.
Use Case	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for back side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF3-S2	MTF value 2 entry: ADF, back, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit.
Use Case	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for back side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
	back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a

MTF value 3 entry: ADF, back, vert scan
To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit.
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Enter the setting value, and then press Apply key.
0 to 100
100
MTF value 4 entry: ADF, back, vert scan
To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit.
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Enter the setting value, and then press Apply key.
Enter the setting value, and then press Apply key.
Enter the setting value, and then press Apply key. 0 to 100
Enter the setting value, and then press Apply key. 0 to 100 100 MTF value 5 entry: ADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading.
Enter the setting value, and then press Apply key. 0 to 100 MTF value 5 entry: ADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader.
Enter the setting value, and then press Apply key. 0 to 100 MTF value 5 entry: ADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data
Enter the setting value, and then press Apply key. 0 to 100 MTF value 5 entry: ADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for back side)
Enter the setting value, and then press Apply key. 0 to 100 MTF value 5 entry: ADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for back side) Enter the setting value, and then press Apply key.
Enter the setting value, and then press Apply key. 0 to 100 MTF value 5 entry: ADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for back side) Enter the setting value, and then press Apply key. 0 to 100
Enter the setting value, and then press Apply key. 0 to 100 MTF value 5 entry: ADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for back side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 6 entry: ADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading.
Enter the setting value, and then press Apply key. 0 to 100 MTF value 5 entry: ADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for back side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 6 entry: ADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader.
Enter the setting value, and then press Apply key. 0 to 100 MTF value 5 entry: ADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for back side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 6 entry: ADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data
Enter the setting value, and then press Apply key. 0 to 100 MTF value 5 entry: ADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for back side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 6 entry: ADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading. When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader. When replacing the Scanner Unit (for back side), enter the value of service label on a new unit. - When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Main Controller PCB/clearing the Reader-related RAM data
- II / O / II / O / -

MTF3-S7	orinter) > ADJUST (Adjustment mode) > CCD MTF value 7 entry: ADF, back, vert scan
	·
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading.
	When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value
	of the service label on the reader.
	When replacing the Scanner Unit (for back side), enter the value of service label on a new unit.
Use Case	 When replacing the Main Controller PCB/clearing the Reader-related RAM data When replacing the Scanner Unit (for back side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF3-S8	MTF value 8 entry: ADF, back, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the
	back side at ADF stream reading.
	When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value of the service label on the reader.
	When replacing the Scanner Unit (for back side), enter the value of service label on a new unit.
Use Case	- When replacing the Main Controller PCB/clearing the Reader-related RAM data
	- When replacing the Scanner Unit (for back side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF3-S9	MTF value 9 entry: ADF, back, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at ADF stream reading.
	When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value
	of the service label on the reader.
	When replacing the Scanner Unit (for back side), enter the value of service label on a new unit.
Use Case	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for back side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 100
Default Value	100
OFST-BW0	Adj Img Read Sns 1 offset:frt,B&W,300dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 1 (Rear) of the Scanner Unit (for
	front side) in black mode with 300 dpi.
	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC
OFST-BW1	Adj Img Read Sns 2 offset:frt,B&W,300dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 2 (Center) of the Scanner Unit (for front side) in black mode with 300 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC

COPIER (Service mode for p	rinter) > ADJUST (Adjustment mode) > CCD
OFST-BW2	Adj Img Read Sns 3 offset:frt,B&W,300dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 3 (Front) of the Scanner Unit (for front side) in black mode with 300 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC
OFST2BW0	Adj Img Read Sns 1 offset:frt,B&W,600dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 1 (Rear) of the Scanner Unit (for front side) in black mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC
OFST2BW1	Adj Img Read Sns 2 offset:frt,B&W,600dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 2 (Center) of the Scanner Unit (fo front side) in black mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC
OFST2BW2	Adj Img Read Sns 3 offset:frt,B&W,600dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 3 (Front) of the Scanner Unit (for front side) in black mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC
OF-BW0BK	Adj Img Read Sns 1 offset:bck,B&W,300dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 1 (Rear) of the Scanner Unit (for back side) in black mode with 300 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC2

COPIER (Service mode for p	printer) > ADJUST (Adjustment mode) > CCD
OF-BW1BK	Adj Img Read Sns 2 offset:bck,B&W,300dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 2 (Center) of the Scanner Unit (for back side) in black mode with 300 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC2
OF-BW2BK	Adj Img Read Sns 3 offset:bck,B&W,300dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 3 (Front) of the Scanner Unit (for back side) in black mode with 300 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC2
OF2BW0BK	Adj Img Read Sns 1 offset:bck,B&W,600dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 1 (Rear) of the Scanner Unit (for back side) in black mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC2
OF2BW1BK	Adj Img Read Sns 2 offset:bck,B&W,600dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 2 (Center) of the Scanner Unit (for back side) in black mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC2
OF2BW2BK	Adj Img Read Sns 3 offset:bck,B&W,600dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 3 (Front) of the Scanner Unit (for back side) in black mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC2

COPIER (Service mode for p	orinter) > ADJUST (Adjustment mode) > CCD
OFST-CL0	Adj Img Read Sns 1 offset:frt,clr,300dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 1 (Rear) of the Scanner Unit (for front side) in color mode with 300 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC
OFST-CL1	Adj Img Read Sns 2 offset:frt,clr,300dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 2 (Center) of the Scanner Unit (for front side) in color mode with 300 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC
OFST-CL2	Adj Img Read Sns 3 offset:frt,clr,300dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 3 (Front) of the Scanner Unit (for front side) in color mode with 300 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC
OFST2CL0	Adj Img Read Sns 1 offset:frt,clr,600dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 1 (Rear) of the Scanner Unit (for front side) in color mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB / clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC
Supplement/Memo	The offset value is automatically updated by executing CL-AGC.
OFST2CL1	Adj Img Read Sns 2 offset:frt,clr,600dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 2 (Center) of the Scanner Unit (for front side) in color mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB / clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC
Supplement/Memo	The offset value is automatically updated by executing CL-AGC.

COPIER (Service mode for p	printer) > ADJUST (Adjustment mode) > CCD
OFST2CL2	Adj Img Read Sns 3 offset:frt,clr,600dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 3 (Front) of the Scanner Unit (for front side) in color mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB / clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC
Supplement/Memo	The offset value is automatically updated by executing CL-AGC.
OF-CL0BK	Adj Img Read Sns 1 offset:bck,clr,300dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 1 (Rear) of the Scanner Unit (for back side) in color mode with 300 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC2
OF-CL1BK	Adj Img Read Sns 2 offset:bck,clr,300dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 2 (Center) of the Scanner Unit (for back side) in color mode with 300 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC2
OF-CL2BK	Adj Img Read Sns 3 offset:bck,clr,300dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 3 (Front) of the Scanner Unit (for back side) in color mode with 300 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC2
OF2CL0BK	Adj Img Read Sns 1 offset:bck,clr,600dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 1 (Rear) of the Scanner Unit (for back side) in color mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC2

COPIER (Service mode for p	rinter) > ADJUST (Adjustment mode) > CCD
OF2CL1BK	Adj Img Read Sns 2 offset:bck,clr,600dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 2 (Center) of the Scanner Unit (for back side) in color mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC2
OF2CL2BK	Adj Img Read Sns 3 offset:bck,clr,600dpi
Detail	To adjust the offset (black level) of the Image Reading Sensor 3 (Front) of the Scanner Unit (for back side) in color mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC2
GAIN-BW0	Adj Img Read Sns 1 gain: frt,B&W,300dpi
Detail	To adjust the gain of the Image Reading Sensor 1 (Rear) of the Scanner Unit (for front side) in black mode with 300 dpi.
Use Case	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. When replacing the Main Controller PCB/clearing RAM data
	Enter the setting value, and then press Apply key.
Adj/Set/Operate Method	0 to 255
Display/Adj/Set Range Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC
GAIN2BW0 Detail	Adj Img Read Sns 1 gain: frt,B&W,600dpi To adjust the gain of the Image Reading Sensor 1 (Rear) of the Scanner Unit (for front side) in black mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC
GAIN-CL0	Adj Img Read Sns 1 gain: frt,clr,300dpi
Detail	To adjust the gain of the Image Reading Sensor 1 (Rear) of the Scanner Unit (for front side) in color mode with 300 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC

COPIER (Service mode for p	rinter) > ADJUST (Adjustment mode) > CCD
GAIN2CL0	Adj Img Read Sns 1 gain: frt,clr,600dpi
Detail	To adjust the gain of the Image Reading Sensor 1 (Rear) of the Scanner Unit (for front side) in color mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC
GA-BW0BK	Adj Img Read Sns 1 gain: bck,B&W,300dpi
Detail	To adjust the gain of the Image Reading Sensor 1 (Rear) of the Scanner Unit (for back side) in black mode with 300 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC2
GA2BW0BK	Adj Img Read Sns 1 gain: bck,B&W,600dpi
Detail	To adjust the gain of the Image Reading Sensor 1 (Rear) of the Scanner Unit (for back side) in
	black mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC2
GA-CL0BK	Adj Img Read Sns 1 gain: bck,clr,300dpi
Detail	To adjust the gain of the Image Reading Sensor 1 (Rear) of the Scanner Unit (for back side) in color mode with 300 dpi.
	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 255
Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC2
GA2CL0BK	Adj Img Read Sns 1 gain: bck,clr,600dpi
Detail	To adjust the gain of the Image Reading Sensor 1 (Rear) of the Scanner Unit (for back side) in color mode with 600 dpi. When replacing the Main Centreller BCR/clearing BAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. When replacing the Main Controller PCB/clearing RAM data
	Enter the setting value, and then press Apply key.
Adj/Set/Operate Method Display/Adj/Set Range	0 to 255
Display/Auj/Set Kange Default Value	0
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC2
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COPIER (Service mode for p	rinter) > ADJUST (Adjustment mode) > CCD
LED-BW-R	Scan Unit LED Igt time(R):frt,B&W,300dpi
Detail	To adjust the lighting time of the red color LED of the Scanner Unit (for front side) in black mode with 300 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 4096
Default Value	609
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC
LED-BW-G	Scan Unit LED lgt time(G):frt,B&W,300dpi
Detail	To adjust the lighting time of the green color LED of the Scanner Unit (for front side) in black mode with 300 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
	Enter the setting value, and then press Apply key.
Adj/Set/Operate Method Display/Adj/Set Range	0 to 4096
Display/Auj/Set Kange Default Value	609
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC
LED-BW-B	Scan Unit LED lgt time(B):frt,B&W,300dpi
Detail	To adjust the lighting time of the blue color LED of the Scanner Unit (for front side) in black mode with 300 dpi.
Use Case	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. When replacing the Main Controller PCB/clearing RAM data
	Enter the setting value, and then press Apply key.
Adj/Set/Operate Method	0 to 4096
Display/Adj/Set Range Default Value	609
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC
LED2BW-R Detail	Scan Unit LED lgt time(R):frt,B&W,600dpi To adjust the lighting time of the red color LED of the Scanner Unit (for front side) in black mode with 600 dpi. When replacing the Main Controller BCR (clearing DAM data, controller action the value of controller label).
Han Coop	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key. 0 to 4096
Display/Adj/Set Range Default Value	1121
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC
LED2BW-G	Scan Unit LED lgt time(G):frt,B&W,600dpi
Detail	To adjust the lighting time of the green color LED of the Scanner Unit (for front side) in black mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 4096
Display/Adj/Set Kange Default Value	1121
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC
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COPIER (Service mode for p	rinter) > ADJUST (Adjustment mode) > CCD
LED2BW-B	Scan Unit LED Igt time(B):frt,B&W,600dpi
Detail	To adjust the lighting time of the blue color LED of the Scanner Unit (for front side) in black mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 4096
Default Value	1121
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC
LED-CL-R	Scan Unit LED lgt time(R):frt,clr,300dpi
Detail	To adjust the lighting time of the red color LED of the Scanner Unit (for front side) in color mode with 300 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 4096
Display/Adj/Set Kange Default Value	865
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC
LED-CL-G	Scan Unit LED lgt time(G):frt,clr,300dpi
Detail	To adjust the lighting time of the green color LED of the Scanner Unit (for front side) in color mode with 300 dpi.
Use Case	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key. 0 to 4096
Display/Adj/Set Range Default Value	865
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC
LED-CL-B Detail	Scan Unit LED lgt time(B):frt,clr,300dpi To adjust the lighting time of the blue color LED of the Scanner Unit (for front side) in color mode with 300 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 4096
Default Value	865
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC
LED2CL-R	Scan Unit LED lgt time(R):frt,clr,600dpi
Detail	To adjust the lighting time of the red color LED of the Scanner Unit (for front side) in color mode with 600 dpi.
	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 4096
Default Value	1377
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC

COPIER (Service mode for p	printer) > ADJUST (Adjustment mode) > CCD
LED2CL-G	Scan Unit LED lgt time(G):frt,clr,600dpi
Detail	To adjust the lighting time of the green color LED of the Scanner Unit (for front side) in color mode
	with 600 dpi.
Use Case	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 4096
Default Value	1377
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC
LED2CL-B	Scan Unit LED lgt time(B):frt,clr,600dpi
Detail	To adjust the lighting time of the blue color LED of the Scanner Unit (for front side) in color mode
	with 600 dpi.
U 0	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 4096
Default Value	1377
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC
LE-BWRBK	Scan Unit LED Igt time(R):bck,B&W,300dpi
Detail	To adjust the lighting time of the red color LED of the Scanner Unit (for back side) in black mode
	with 300 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 4096
Display/Adj/oet Kange Default Value	609
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC2
LE-BWGBK	Scan Unit LED lgt time(G):bck,B&W,300dpi
Detail	To adjust the lighting time of the green color LED of the Scanner Unit (for back side) in black mode with 300 dpi.
	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 4096
Default Value	609
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC2
LE-BWBBK	Scan Unit LED lgt time(B):bck,B&W,300dpi
Detail	To adjust the lighting time of the blue color LED of the Scanner Unit (for back side) in black mode
	with 300 dpi.
	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 4096
Default Value	609
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC2

COPIER (Service mode for p	rinter) > ADJUST (Adjustment mode) > CCD
LE2BWRBK	Scan Unit LED lgt time(R):bck,B&W,600dpi
Detail	To adjust the lighting time of the red color LED of the Scanner Unit (for back side) in black mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
-	0 to 4096
Display/Adj/Set Range Default Value	1121
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC2
LE2BWGBK	Scan Unit LED lgt time(G):bck,B&W,600dpi
Detail	To adjust the lighting time of the green color LED of the Scanner Unit (for back side) in black mode with 600 dpi. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data When replacing the Main Controller PCB/clearing RAM data
	Enter the setting value, and then press Apply key.
Adj/Set/Operate Method	
Display/Adj/Set Range Default Value	0 to 4096 1121
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC2
LE2BWBBK	Scan Unit LED lgt time(B):bck,B&W,600dpi
Detail	To adjust the lighting time of the blue color LED of the Scanner Unit (for back side) in black mode with 600 dpi.
U O	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 4096
Default Value	1121
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC2
LE-CLRBK	Scan Unit LED Igt time(R):bck,clr,300dpi
Detail	To adjust the lighting time of the red color LED of the Scanner Unit (for back side) in color mode with 300 dpi.
Has Coos	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range Default Value	0 to 4096 865
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC2
LE-CLGBK	Scan Unit LED lgt time(G):bck,clr,300dpi
Detail	To adjust the lighting time of the green color LED of the Scanner Unit (for back side) in color mode with 300 dpi.
Uaa Oass	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range Default Value	0 to 4096
Related Service Mode	865 CODIEDS ELINICTIONS CCDS CLAGGS
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC2

COPIER (Service mode for p	printer) > ADJUST (Adjustment mode) > CCD
LE-CLBBK	Scan Unit LED lgt time(B):bck,clr,300dpi
Detail	To adjust the lighting time of the blue color LED of the Scanner Unit (for back side) in color mode with 300 dpi.
	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 4096
Default Value	865
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC2
LE2CLRBK	Scan Unit LED lgt time(R):bck,clr,600dpi
Detail	To adjust the lighting time of the red color LED of the Scanner Unit (for back side) in color mode with 600 dpi.
	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 4096
Default Value	1377
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC2
LE2CLGBK	Scan Unit LED lgt time(G):bck,clr,600dpi
Detail	To adjust the lighting time of the green color LED of the Scanner Unit (for back side) in color mode with 600 dpi.
	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 4096
Default Value	1377
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC2
LE2CLBBK	Scan Unit LED lgt time(B):bck,clr,600dpi
Detail	To adjust the lighting time of the blue color LED of the Scanner Unit (for back side) in color mode with 600 dpi.
	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 4096
Default Value	1377
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC2
LNR-GA-R	Frt/bck linearity gain crrct coeffct (R)
Detail	To adjust the red color gain correction coefficient of the front/back side linearity.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 65535
Default Value	10000
LNR-GA-G	Frt/bck linearity gain crrct coeffct (G)
Detail	To adjust the green color gain correction coefficient of the front/back side linearity.
Use Case	When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 65535
Default Value	10000

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■ PASCAL

OFST-P-K	Adj Bk-color density at test print read
Detail	To adjust the offset of Bk-color test print reading signal at auto gradation adjustment (full adjustment).
	When replacing the Main 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 Unit
	- When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
Caution	After the setting value is changed, write the changed value in the service label.
Display/Adj/Set Range	-128 to 128
Default Value	0

■ FEED-ADJ

ADJ-MFY	Adjustment of write start position in feed direction at Multi-purpose Tray pickup (1-sided print/2nd side of 2-sided print)
Detail	To adjust the image write start position in the feed direction at the time of pickup from the Multipurpose Tray. As the value is changed by 1, the leading edge margin is changed by 0.001 mm. +: Leading edge margin becomes larger. (An image moves to the trailing edge side.) -: Leading edge margin becomes smaller. (An image moves to the leading edge side.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to the 1st side at 1-sided print and the 2nd side at 2-sided print.
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 Apply key.
Caution	This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed.
Display/Adj/Set Range	-5080 to 5080
Unit	0.001 mm
Default Value	0
Related Service Mode	COPIER> FUNCTION> CLEAR> SRVC-DAT
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position
ADJ-MFX	Adjustment of write start position in horizontal scanning direction at Multi-purpose Tray pickup (1-sided print/2nd side of 2-sided print)
Detail	To adjust the write start position in the horizontal scanning direction for the image on the 1st side at the time of pickup from the Multi-purpose Tray. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 1-sided print and the 2nd side at 2-sided print.
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 Apply key.
Caution	This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed.
Display/Adj/Set Range	-5080 to 5080
Unit	0.001 mm
Default Value	0
Related Service Mode	COPIER> FUNCTION> CLEAR> SRVC-DAT
Additional Functions	Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position.

Detail Detail To adjust the write start position in the feed direction for the image on the 2nd side at the time pickup from the Multi-purpose Tray. As the value is changed by 1, the leading edge margin is changed by 0.001 mm. +: Leading edge margin becomes larger. (An image moves to the trailing edge side.) -: Leading edge margin becomes smaller. (An image moves to the leading edge side.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to the 1st side at 2-sided print. Use Case When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is execute on the setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is execute additional Functions Mode Additional Functions Mode ADJ-MFXR Adjustment of write start position in horizontal scanning direction at Multi-purpose Tray is the time of pickup from the Multi-purpose Tray. As the value is changed by 1, the left margin is changed by 0.001 mm. +: Left margin becomes smaller. (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. The setting is applied to the 1st side at 2-sided print. Use Case Adj/Set/Operate Method Caution This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration].	oor introduction p	
pickup from the Multi-purpose Tray. As the value is changed by 1, the leading edge margin is changed by 0.001 mm. +: Leading edge margin becomes larger. (An image moves to the trailing edge side.) -: Leading edge margin becomes smaller. (An image moves to the leading edge side.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to the 1st side at 2-sided print. Use Case When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is execute Display/Adj/Set Range -5080 to 5080 Unit Default Value Related Service Mode Additional Functions Mode ADJ-MFXR Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position. Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position. Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position. Adjustment of write start position in horizontal scanning direction at Multi-purpose Tray pickup (1st side of 2-sided print) Default value is changed by 1, the left margin is changed by 0.001 mm. +: Left margin becomes larger. (An image moves to the left.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to the 1st side at 2-sided print. Use Case Adj/Set/Operate Method Caution This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is execute Display/Adj/Set Range -5080 to 5080 Unit Default Value Related Service Mode Additional Functions Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position.	ADJ-MFYR	Adjustment of write start position in feed direction at Multi-purpose Tray pickup (1st side of 2-sided print)
Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is execute -5080 to 5080 Unit Default Value COPIER> FUNCTION> CLEAR> SRVC-DAT is execute -5080 to 5080 COPIER> FUNCTION> CLEAR> SRVC-DAT Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position. ADJ-MFXR Adjustment of write start position in horizontal scanning direction at Multi-purpose Traypickup (1st side of 2-sided print) Detail To adjust the write start position in the horizontal scanning direction for the image on the 2nd si at the time of pickup from the Multi-purpose Tray. As the value is changed by 1, the left margin is changed by 0.001 mm. +: Left margin becomes larger. (An image moves to the left.)	Detail	As the value is changed by 1, the leading edge margin is changed by 0.001 mm. +: Leading edge margin becomes larger. (An image moves to the trailing edge side.) -: Leading edge margin becomes smaller. (An image moves to the leading edge side.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label.
This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is execute 5080 to 5080 Unit Default Value Related Service Mode Additional Functions Mode Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position. Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position. Adjustment of write start position in horizontal scanning direction at Multi-purpose Tray pickup (1st side of 2-sided print) Detail To adjust the write start position in the horizontal scanning direction for the image on the 2nd si at the time of pickup from the Multi-purpose Tray. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print. Use Case Adj/Set/Operate Method Caution This setting value (switch negative/positive by +/- key) and press Apply key. Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed additional Functions Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position.	Use Case	When replacing the DC Controller PCB/clearing RAM data
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ADJ-MFXR Adjustment of write start position in horizontal scanning direction at Multi-purpose Traypickup (1st side of 2-sided print) Detail To adjust the write start position in the horizontal scanning direction for the image on the 2nd side at the time of pickup from the Multi-purpose Tray. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print. Use Case When replacing the DC Controller PCB/clearing RAM data. Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed and to additional Functions Related Service Mode Additional Functions Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position.	Related Service Mode	COPIER> FUNCTION> CLEAR> SRVC-DAT
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Caution This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed. Display/Adj/Set Range Unit Default Value Related Service Mode Additional Functions This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed. Solve Topical Service Mode and Servic		pickup (1st side of 2-sided print) To adjust the write start position in the horizontal scanning direction for the image on the 2nd side at the time of pickup from the Multi-purpose Tray. As the value is changed by 1, the left margin is changed by 0.001 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.
The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is execute -5080 to 5080 Unit Default Value Related Service Mode Additional Functions The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is execute -5080 to 5080 0.001 mm 0 COPIER> FUNCTION> CLEAR> SRVC-DAT Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position.	Detail	pickup (1st side of 2-sided print) To adjust the write start position in the horizontal scanning direction for the image on the 2nd side at the time of pickup from the Multi-purpose Tray. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print.
Unit Default Value Related Service Mode Additional Functions O.001 mm COPIER> FUNCTION> CLEAR> SRVC-DAT Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position.	Detail Use Case	pickup (1st side of 2-sided print) To adjust the write start position in the horizontal scanning direction for the image on the 2nd side at the time of pickup from the Multi-purpose Tray. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data.
Default Value Related Service Mode Additional Functions COPIER> FUNCTION> CLEAR> SRVC-DAT Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position.	Detail Use Case Adj/Set/Operate Method	pickup (1st side of 2-sided print) To adjust the write start position in the horizontal scanning direction for the image on the 2nd side at the time of pickup from the Multi-purpose Tray. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data. Enter the setting value (switch negative/positive by +/- key) and press Apply key.
Related Service Mode Additional Functions COPIER> FUNCTION> CLEAR> SRVC-DAT Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position.	Use Case Adj/Set/Operate Method Caution	pickup (1st side of 2-sided print) To adjust the write start position in the horizontal scanning direction for the image on the 2nd side at the time of pickup from the Multi-purpose Tray. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data. Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed.
Additional Functions Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position.	Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range	Pickup (1st side of 2-sided print) To adjust the write start position in the horizontal scanning direction for the image on the 2nd side at the time of pickup from the Multi-purpose Tray. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data. Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed. -5080 to 5080
, , , , ,	Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range Unit	To adjust the write start position in the horizontal scanning direction for the image on the 2nd side at the time of pickup from the Multi-purpose Tray. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data. Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed -5080 to 5080 0.001 mm
	Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range Unit Default Value	To adjust the write start position in the horizontal scanning direction for the image on the 2nd side at the time of pickup from the Multi-purpose Tray. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data. Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed. -5080 to 5080 0.001 mm

ADJ-C1Y	Adjustment of write start position in feed direction at Cassette 1 pickup (1-sided print/2nd side of 2-sided print)
Detail	To adjust the image write start position in the feed direction at the time of pickup from the Cassette 1.
	As the value is changed by 1, the leading edge margin is changed by 0.001 mm. +: Leading edge margin becomes larger. (An image moves to the trailing edge side.) -: Leading edge margin becomes smaller. (An image moves to the leading edge side.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to the 1st side at 1-sided print and the 2nd side at 2-sided print.
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 Apply key.
Caution	This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed.
Display/Adj/Set Range	-5080 to 5080
Unit	0.001 mm
Default Value	0
Related Service Mode	COPIER> FUNCTION> CLEAR> SRVC-DAT
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position.
ADJ-C1X	Adjustment of write start position in horizontal scanning direction at Cassette 1 pickup (1-sided print/2nd side of 2-sided print)
ADJ-C1X Detail	•
	sided print/2nd side of 2-sided print) To adjust the write start position in the horizontal scanning direction for the image on the 1st side at the time of pickup from the Cassette 1. As the value is changed by 1, the left margin is changed by 0.001 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.
Detail	Sided print/2nd side of 2-sided print) To adjust the write start position in the horizontal scanning direction for the image on the 1st side at the time of pickup from the Cassette 1. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 1-sided print and the 2nd side at 2-sided print.
Detail Use Case	To adjust the write start position in the horizontal scanning direction for the image on the 1st side at the time of pickup from the Cassette 1. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 1-sided print and the 2nd side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data
Detail Use Case Adj/Set/Operate Method	To adjust the write start position in the horizontal scanning direction for the image on the 1st side at the time of pickup from the Cassette 1. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 1-sided print and the 2nd side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration].
Use Case Adj/Set/Operate Method Caution	To adjust the write start position in the horizontal scanning direction for the image on the 1st side at the time of pickup from the Cassette 1. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 1-sided print and the 2nd side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed.
Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range	To adjust the write start position in the horizontal scanning direction for the image on the 1st side at the time of pickup from the Cassette 1. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 1-sided print and the 2nd side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed. -5080 to 5080
Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range Unit	To adjust the write start position in the horizontal scanning direction for the image on the 1st side at the time of pickup from the Cassette 1. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 1-sided print and the 2nd side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed. -5080 to 5080 0.001 mm
Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range Unit Default Value	To adjust the write start position in the horizontal scanning direction for the image on the 1st side at the time of pickup from the Cassette 1. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 1-sided print and the 2nd side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is execute -5080 to 5080 0.001 mm

ADJ-C1YR	Adjustment of write start position in feed direction at Cassette 1 pickup (1st side of 2-sided print)
Detail	To adjust the write start position in the feed direction for the image on the 2nd side at the time of pickup from the Cassette 1. As the value is changed by 1, the leading edge margin is changed by 0.001 mm. +: Leading edge margin becomes larger. (An image moves to the trailing edge side.) -: Leading edge margin becomes smaller. (An image moves to the leading edge side.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to the 1st side at 2-sided print.
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 Apply key.
Caution	This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed.
Display/Adj/Set Range	-5080 to 5080
Unit	0.001 mm
Default Value	0
Related Service Mode	COPIER> FUNCTION> CLEAR> SRVC-DAT
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position.
ADJ-C1XR	Adjustment of write start position in horizontal scanning direction at Cassette 1 pickup (1st side of 2-sided print)
Detail	To adjust the write start position in the horizontal scanning direction for the image on the 2nd side at the time of pickup from the Cassette 1. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print.
Detail Use Case	at the time of pickup from the Cassette 1. As the value is changed by 1, the left margin is changed by 0.001 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.
	at the time of pickup from the Cassette 1. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print.
Use Case	at the time of pickup from the Cassette 1. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data
Use Case Adj/Set/Operate Method	at the time of pickup from the Cassette 1. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration].
Use Case Adj/Set/Operate Method Caution	at the time of pickup from the Cassette 1. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed.
Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range	at the time of pickup from the Cassette 1. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed. -5080 to 5080
Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range Unit	at the time of pickup from the Cassette 1. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed. -5080 to 5080 0.001 mm

ADJ-C2Y	Adjustment of write start position in feed direction at Cassette 2 pickup (1-sided print/2nd side of 2-sided print)
Detail	To adjust the image write start position in the feed direction at the time of pickup from the Cassette 2.
	As the value is changed by 1, the leading edge margin is changed by 0.001 mm. +: Leading edge margin becomes larger. (An image moves to the trailing edge side.) -: Leading edge margin becomes smaller. (An image moves to the leading edge side.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to the 1st side at 1-sided print and the 2nd side at 2-sided print.
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 Apply key.
Caution	This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed.
Display/Adj/Set Range	-5080 to 5080
Unit	0.001 mm
Default Value	0
Related Service Mode	COPIER> FUNCTION> CLEAR> SRVC-DAT
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position.
ADJ-C2X	Adjustment of write start position in horizontal scanning direction at Cassette 2 pickup (1-sided print/2nd side of 2-sided print)
Detail	To adjust the write start position in the horizontal scanning direction for the image on the 1st side at the time of pickup from the Cassette 2.
	As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 1-sided print and the 2nd side at 2-sided print.
Use Case	+: 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 Adj/Set/Operate Method	+: 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. The setting is applied to the 1st side at 1-sided print and the 2nd side at 2-sided print.
	+: 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. The setting is applied to the 1st side at 1-sided print and the 2nd side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data
Adj/Set/Operate Method	+: 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. The setting is applied to the 1st side at 1-sided print and the 2nd side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration].
Adj/Set/Operate Method Caution	+: 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. The setting is applied to the 1st side at 1-sided print and the 2nd side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed.
Adj/Set/Operate Method Caution Display/Adj/Set Range	+: 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. The setting is applied to the 1st side at 1-sided print and the 2nd side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed5080 to 5080
Adj/Set/Operate Method Caution Display/Adj/Set Range Unit	+: 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. The setting is applied to the 1st side at 1-sided print and the 2nd side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed5080 to 5080 0.001 mm

ADJ-C2YR	Adjustment of write start position in feed direction at Cassette 2 pickup (1st side of 2-sided print)
Detail	To adjust the write start position in the feed direction for the image on the 2nd side at the time of pickup from the Cassette 2. As the value is changed by 1, the leading edge margin is changed by 0.001 mm. +: Leading edge margin becomes larger. (An image moves to the trailing edge side.) -: Leading edge margin becomes smaller. (An image moves to the leading edge side.) When replacing the DC Controller PCB/clearing RAM data, enter the value of service label. The setting is applied to the 1st side at 2-sided print.
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 Apply key.
Caution	This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed.
Display/Adj/Set Range	-5080 to 5080
Unit	0.001 mm
Default Value	0
Related Service Mode	COPIER> FUNCTION> CLEAR> SRVC-DAT
Additional Functions Mode	Adjustment/Maintenance> Adjust Image Quality> Adjust Print Position.
ADJ-C2XR	Adjustment of write start position in horizontal scanning direction at Cassette 2 pickup (1st
	side of 2-sided print)
Detail	side of 2-sided print) To adjust the write start position in the horizontal scanning direction for the image on the 2nd side at the time of pickup from the Cassette 2. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print.
Detail Use Case	To adjust the write start position in the horizontal scanning direction for the image on the 2nd side at the time of pickup from the Cassette 2. As the value is changed by 1, the left margin is changed by 0.001 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.
	To adjust the write start position in the horizontal scanning direction for the image on the 2nd side at the time of pickup from the Cassette 2. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print.
Use Case	To adjust the write start position in the horizontal scanning direction for the image on the 2nd side at the time of pickup from the Cassette 2. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data
Use Case Adj/Set/Operate Method	To adjust the write start position in the horizontal scanning direction for the image on the 2nd side at the time of pickup from the Cassette 2. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration].
Use Case Adj/Set/Operate Method Caution	To adjust the write start position in the horizontal scanning direction for the image on the 2nd side at the time of pickup from the Cassette 2. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed.
Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range	To adjust the write start position in the horizontal scanning direction for the image on the 2nd side at the time of pickup from the Cassette 2. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed. -5080 to 5080
Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range Unit	To adjust the write start position in the horizontal scanning direction for the image on the 2nd side at the time of pickup from the Cassette 2. As the value is changed by 1, the left margin is changed by 0.001 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. The setting is applied to the 1st side at 2-sided print. When replacing the DC Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key. This setting is linked with the setting of [Adjust Print Position] in [Settings/Registration]. The setting value is not cleared even if COPIER> FUNCTION> CLEAR> SRVC-DAT is executed. -5080 to 5080 0.001 mm

■ PANEL

TOUCHCHK	Adj of coordinate pstn on Touch Panel
Detail	To adjust the coordinate position on the Touch Panel of the Control Panel. By making adjustment, the setting of TOUCH-R becomes 1.
Use Case	When replacing the LCD Panel
Adj/Set/Operate Method	1) Select the item, and then press Yes key. 2) Press the nine "+" keys in sequence.
Related Service Mode	COPIER> ADJUST> PANEL> TOUCH-R

TOUCH-R	Touch Panel coordinate pstn adj result
Detail	To set whether adjustment of the coordinate position on the Touch Panel of the Control Panel is completed. When adjustment with TOUCHCHK is completed, the setting of this item becomes 1.
Use Case	When replacing the LCD Panel
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 1
	0: Not completed 1: Completed
Default Value	0
Related Service Mode	COPIER> ADJUST> PANEL> TOUCHCHK

■ VIFADJ

COPIER (Service mode for printer) > ADJUST (Adjustment mode) > VIFADJ

DEV-HV-K	For R&D
FU-TMP	For R&D
CRG-HV-K	For R&D
LS-PWR-K	For R&D
TR-HV	For R&D



FUNCTION (Operation / inspection mode)

■ INSTALL

STRD-POS	Auto adj of read position at stream read
Detail	To automatically adjust the Scanner Unit position in feed direction when stream reading original with ADF. The adjustment result is reflected to COPIER> ADJUST> ADJ-XY> STRD-POS.
Use Case	- At ADF installation/uninstallation - When replacing the Scanner Unit/clearing RAM data
Adj/Set/Operate Method	1) Close the ADF. 2) Select the item, and then press Yes 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.
Required Time	10 sec
Related Service Mode	COPIER> ADJUST> ADJ-XY> STRD-POS
CARD-NUM	Card first number setting
Detail	To set the card first number to be used for Copy Card Reader.
Use Case	At installation of the Card Reader
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	1 to 2701
Default Value	1
Related Service Mode	COPIER> FUNCTION> INSTALL> CARD

COPIER (Service mode for p	printer) > FUNCTION (Operation / inspection mode) > INSTALL
CARD	Set of Copy Card Reader management info
Detail	To set the following management information at installation of the Card Reader Register numbers of 300 cards from the number set in CARD-NUM to the department ID Initialize ID and password of the system administrator.
Use Case	At installation of the Card Reader
Adj/Set/Operate Method	 Select the item, and then press Yes key. Turn OFF/ON the main power switch.
Related Service Mode	COPIER> FUNCTION> INSTALL> CARD-NUM
ERDS	ON/OFF of Embedded-RDS
Detail	To set whether to use the Embedded-RDS function.
Use Case	When using Embedded-RDS
Adj/Set/Operate Method	1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch.
Caution	Be sure to use ERDS, RGW-PORT, COM-TEST, COM-RSLT, and COM-LOG as a set.
Display/Adj/Set Range	0 to 1 0: OFF 1: ON
Default Value	It differs according to the location.
Related Service Mode	COPIER> FUNCTION> INSTALL> RGW-PORT, COM-TEST, COM-RSLT, COM-LOG
Supplement/Memo	Embedded-RDS: Function to send device information such as the device counter, failure, and consumables to UGW via SOAP protocol UGW (Universal Gate Way): Remote monitoring service system
RGW-PORT	Setting of UGW port number when using Embedded-RDS
Detail	To set the port number of UGW to be used for Embedded-RDS.
Use Case	When using Embedded-RDS
Adj/Set/Operate Method	1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch.
Caution	Be sure to use ERDS, RGW-PORT, COM-TEST, COM-RSLT, and COM-LOG as a set.
Display/Adj/Set Range	1 to 65535
Default Value	443
Related Service Mode	COPIER> FUNCTION> INSTALL> ERDS, COM-TEST, COM-RSLT, 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
COM-TEST	Execution of Embedded-RDS communication test
Detail	To execute Embedded-RDS communication test. If the connection fails, the information is added to the communication error log.
Use Case	When using E-RDS
Adj/Set/Operate Method	Select the item, and then press Yes key.
Caution	Be sure to use ERDS, RGW-PORT, COM-TEST, COM-RSLT, and COM-LOG as a set.
Related Service Mode	COPIER> FUNCTION> INSTALL> ERDS, RGW-PORT, COM-RSLT, COM-LOG
Supplement/Memo	Embedded-RDS: Function to send device information such as the device counter, failure, and consumables to UGW via SOAP protocol UGW (Universal Gate Way): Remote monitoring service system

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COM-RSLT	Display of Embedded-RDS comctn test result
Detail	To display the Embedded-RDS communication test result.
Use Case	When using E-RDS
Adj/Set/Operate Method	N/A (Display only)
Caution	Be sure to use ERDS, RGW-PORT, COM-TEST, COM-RSLT, and COM-LOG as a set.
Display/Adj/Set Range	When not in execution: Unknown
	When connection is completed: OK When connection is failed: NG
Default Value	Unknown
Related Service Mode	COPIER> FUNCTION> INSTALL> ERDS, RGW-PORT, COM-TEST, COM-LOG
Supplement/Memo	Embedded-RDS: Function to send device information such as the device counter, failure, and consumables to UGW via SOAP protocol UGW (Universal Gate Way): Remote monitoring service system
COM-LOG	Display of Embedded-RDS comctn error log
Detail	To display the Embedded-RDS communication error log. The dates, times, and error codes of the latest 5 errors that occurred are displayed. As for the error detail information, the report can be output by executing ERDS-LOG.
Use Case	When using Embedded-RDS
Adj/Set/Operate Method	N/A (Display only)
Caution	Be sure to use ERDS, RGW-PORT, COM-TEST, COM-RSLT, and COM-LOG as a set.
Display/Adj/Set Range	Date: 6 digits Time: 4 digits Error code: 8 digits
Related Service Mode	COPIER> FUNCTION> INSTALL> ERDS, RGW-PORT, COM-TEST, COM-RSLT COPIER> FUNCTION> MISC-P> ERDS-LOG
Supplement/Memo	Embedded-RDS: Function to send device information such as the device counter, failure, and consumables to UGW via SOAP protocol UGW (Universal Gate Way): Remote monitoring service system

■ CCD

DF-WLVL1	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 GlassWhen replacing the Scanner UnitWhen replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	1) Set a paper on the Copyboard Glass. 2) Select the item, and then press Yes key.
Caution	Be sure to execute DF-WLVL2 in a row.
Related Service Mode	COPIER> FUNCTION> CCD> DF-WLVL2
Supplement/Memo	The Scanner Unit (for front side) calculates the white level correction coefficient based on the luminance at copyboard reading detected with DF-WLVL1, the luminance at stream reading detected with DF-WLVL2, and the luminance at stream reading that the Scanner Unit (for back side) detected with DF-WLVL2.

DF-WLVL2	
	White level adj: stream reading, color
Detail	To adjust the white level for stream reading by setting the paper which is usually used by the user on the ADF.
Use Case	- When replacing the Copyboard Glass
	- When replacing the Scanner Unit
	- When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	1) Set paper on the ADF.
	2) Select the item, and then press Yes key.
Caution	Be sure to execute this item after DF-WLVL1.
Related Service Mode	COPIER> FUNCTION> CCD> DF-WLVL1
Supplement/Memo	The Scanner Unit (for front side) calculates the white level correction coefficient based on the luminance at copyboard reading detected with DF-WLVL1, the luminance at stream reading detected with DF-WLVL2, and the luminance at stream reading that the Scanner Unit (for back side) detected with DF-WLVL2.
CL-AGC	Adj Scan Unit (frt) B&W ref: stream, clr
Detail	To automatically adjust the black/white reference level of the Scanner Unit (for front side) at stream
	reading in color mode.
	To make the adjustment with both resolutions 300 dpi and 600 dpi.
	When this item is executed, the values of OFST-CL0/CL1/CL2, GAIN-CL0, LED-CL-R/G/B,
	OFST2CL0/CL1/CL2, GAIN2CL0, and LED2CL-R/G/B are automatically calculated.
Use Case	- When replacing the Reader Unit - When replacing the Scanner Unit
Adj/Set/Operate Method	1) Set paper on the ADF.
	2) Select the item, and then press Yes key.
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC
	COPIER> ADJUST> CCD> OFST-CL0/CL1/CL2, GAIN-CL0, LED-CL-R/G/B, OFST2CL0/CL1/
	CL2, GAIN2CL0, LED2CL-R/G/B
Supplement/Memo	AGC: Automatic Gain Control
BW-AGC	Adj Scan Unit (frt) B&W ref: stream, B&W
Detail	To automatically adjust the black/white reference level of the Scanner Unit (for front side) at stream
	reading in black mode.
	To make the adjustment with both resolutions 300 dpi and 600 dpi.
	When this item is executed, the values of OFST-BW0/BW1/BW2, GAIN-BW0, LED-BW-R/G/B,
	OFST2BW0/BW1/BW2, GAIN2BW0, and LED2BW-R/G/B are automatically calculated.
Use Case	- When replacing the Reader Unit
	- When replacing the Scanner Unit
Adj/Set/Operate Method	1) Set paper on the ADF.
	2) Select the item, and then press Yes key.
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC
	COPIER> ADJUST> CCD> OFST-BW0/BW1/BW2, GAIN-BW0, LED-BW-R/G/B,
	OFST2BW0/BW1/BW2, GAIN2BW0, LED2BW-R/G/B
	ACC: Automotic Coin Control
Supplement/Memo	AGC: Automatic Gain Control

DOT TETY (OCTATION THOUSE TOT P	office () > Fond from (Operation / Inspection mode) > CCD
CL-AGC2	Adj Scan Unit (bck) B&W ref: stream, clr
Detail	To automatically adjust the black/white reference level of the Scanner Unit (for back side) at stream reading in color mode. To make the adjustment with both resolutions 300 dpi and 600 dpi. When this item is executed, the values of OF-CL0BK/CL1BK/CL2BK, GA-CL0BK, LE-CLRBK/GBK/BBK, OF2CL0BK/CL1BK/CL2BK, GA2CL0BK, and LE2CLRBK/GBK/BBK are automatically calculated.
Use Case	- When replacing the Reader Unit - When replacing the Scanner Unit
Adj/Set/Operate Method	Set paper on the ADF. Select the item, and then press Yes key.
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC2 COPIER> ADJUST> CCD> OF-CL0BK/CL1BK/CL2BK, GA-CL0BK, LE-CLRBK/GBK/BBK, OF2CL0BK/CL1BK/CL2BK, GA2CL0BK, LE2CLRBK/GBK/BBK
Supplement/Memo	AGC: Automatic Gain Control
BW-AGC2	Adj Scan Unit (bck) B&W ref: stream, B&W
Detail	To automatically adjust the black/white reference level of the Scanner Unit (for back side) at stream reading in black mode. To make the adjustment with both resolutions 300 dpi and 600 dpi. When this item is executed, the values of OF-BW0BK/BW1BK/BW2BK, GA-BW0BK, LE-BWRBK/GBK/BBK, OF2BW0BK/BW1BK/BW2BK, GA2BW0BK, and LE2BWRBK/GBK/BBK are automatically calculated.
Use Case	- When replacing the Reader Unit - When replacing the Scanner Unit
Adj/Set/Operate Method	 Set paper on the ADF. Select the item, and then press Yes key.
Related Service Mode	COPIER> FUNCTION> CCD> CL-AGC2 COPIER> ADJUST> CCD> OF-BW0BK/BW1BK/BW2BK, GA-BW0BK, LE-BWRBK/GBK/BBK, OF2BW0BK/BW1BK/BW2BK, GA2BW0BK, LE2BWRBK/GBK/BBK
Supplement/Memo	AGC: Automatic Gain Control
BW-TGT	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 Apply key.
Caution	Be sure to execute this item after execution of W-PLT-X/Y/Z.
Related Service Mode	COPIER> ADJUST> CCD> W-PLT-X/Y/Z COPIER> DISPLAY> CCD> TARGETBW
BK-SHD1	Paper back shading correction 1
Detail	To generate the paper back shading correction data by scanning the Standard White Plate of the Paper Back Reading Glass with the Scanner Unit (for back side).
Use Case	- When replacing the Main Controller PCB - When replacing the Scanner Unit (for back side)
Adj/Set/Operate Method	 Clean the glass of the Scanner Unit (for back side) and the Reading Glass. Close the ADF. Select the item, and then press Apply key.
Caution	Execute BK-SHD1 and then BK-SHD2 in that order.
Related Service Mode	COPIER> FUNCTION> CCD> BK-SHD2 COPIER> DISPLAY> CCD> BK-SHDST

BK-SHD2	Paper back shading correction 2
Detail	To generate the paper back shading correction data by scanning the Standard White Plate of the Paper Back Reading Glass with the Scanner Unit (for back side).
Use Case	- When replacing the Main Controller PCB
	- When replacing the Scanner Unit (for back side)
Adj/Set/Operate Method	1) Clean the glass of the Scanner Unit (for back side) and the Reading Glass.
	2) Close the ADF.
	3) Select the item, and then press Apply key.
Caution	Execute BK-SHD1 and then BK-SHD2 in that order.
Related Service Mode	COPIER> FUNCTION> CCD> BK-SHD1
	COPIER> DISPLAY> CCD> BK-SHDST

■ CLEAR

COPIER (Service mode for p	orinter) > FUNCTION (Operation / inspection mode) > CLEAR
R-CON	Initialization of Reader/ADF
Detail	To initialize the factory adjustment values of the Reader/ADF.
Use Case	When clearing RAM data of the Reader/ADF
Adj/Set/Operate Method	Select the item, and then press Yes key.
Caution	RAM data is cleared after the main power switch is turned OFF/ON.
SRVC-DAT	Clearing of service mode setting values
Detail	To clear the service mode setting values.
	The user mode setting values are not cleared.
	The factory adjustment values of the Reader/ADF are not initialized.
Adj/Set/Operate Method	1) Select the item, and then press Yes key.
	2) Turn OFF/ON the main power switch.
COUNTER	Clearing of service counter
Detail	To clear the counter by maintenance/part.
	The numerator printed on a system dump list becomes 0.
Adj/Set/Operate Method	1) Select the item, and then press Yes key.
	2) Turn OFF/ON the main power switch.
HIST	Clearing of logs
Detail	To clear the communication management/print/jam/alarm/error log.
Use Case	When clearing logs
Adj/Set/Operate Method	1) Select the item, and then press Yes key.
	2) Turn OFF/ON the main power switch.
CARD	Clearing of Card Reader connection info
Detail	To clear the information on connection of the Copy Card Reader.
	The data related to the card ID (department) is cleared, and the ID and password of the system
	administrator are initialized.
Use Case	When removing the Copy Card Reader
Adj/Set/Operate Method	1) Select the item, and then press Yes key.
	2) Turn OFF/ON the main power switch.
Caution	Execute this item after disabling the department ID management.
Related Service Mode	COPIER> FUNCTION> CLEAR> E719-CLR
Supplement/Memo	Procedure to remove the Copy Card Reader
	1) Disable the department ID management.
	2) Select the item, and then press Yes key.
	3) Execute E719-CLR. 4) Turn OFF the main power switch.
	5) Remove the Copy Card Reader.
	6) Turn ON the main power switch.
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COPIER (Service mode for p	initial) > FUNCTION (Operation / inspection mode) > CLEAR
E719-CLR	Clearing of E719 error
Detail	To clear E719 error (communication error with the Copy Card Reader). The information on connection of the Copy Card Reader is also cleared.
Use Case	When removing the Copy Card Reader
Adj/Set/Operate Method	1) Select the item, and then press Yes key. 2) Turn OFF/ON the main power switch.
Related Service Mode	COPIER> FUNCTION> CLEAR> CARD
Supplement/Memo	Procedure to remove the Copy Card Reader 1) Disable the department ID management. 2) Execute CARD. 3) Select the item, and then press Yes key. 4) Turn OFF the main power switch. 5) Remove the Copy Card Reader. 6) Turn ON the main power switch.
ALL	Clearing of setting information
Detail	To clear/initialize the following setting information according to the location set in LOCALE and SIZE-LC. - User mode setting values - Service mode setting values (excluding the service counter) - ID and password of the system administrator - Communication management/print/jam/alarm/error log - E719 error (counter meter-installed models only) The following items are not cleared/initialized. - Service counter - Factory adjustment values of the Reader/ADF
Use Case	At installation
Adj/Set/Operate Method	1) Select the item, and then press Yes key. 2) Turn OFF/ON the main power switch.
Default Value	0
Related Service Mode	COPIER> OPTION> BODY> LOCALE, SIZE-LC COPIER> FUNCTION> CLEAR> E719-CLR
ERDS-DAT	Initialize of Embedded-RDS setting value
Detail	To initialize the Embedded-RDS setting values. ON/OFF of Embedded-RDS, UGW port number and communication error log set in ERDS, RGW-PORT, and COM-LOG are cleared.
Use Case	When upgrading the Bootable in the Embedded-RDS environment
Adj/Set/Operate Method	Select the item, and then press Yes key.
Caution	Use of the SRAM in Embedded-RDS differs depending on the Bootable version. Therefore, unless initialization is executed at the time of version upgrade, data inconsistency occurs.
Related Service Mode	COPIER> FUNCTION> INSTALL> ERDS, RGW-PORT, COM-LOG
Supplement/Memo	Embedded-RDS: Function to send device information such as the device counter, failure, and consumables to UGW via SOAP protocol UGW (Universal Gate Way): Remote monitoring service system
PLPW-CLR	Clear security policy setting password
Detail	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 Yes key.

CRGL-CNT	Clearing of cartridge replacement log
Detail	To clear the cartridge replacement log.
Adj/Set/Operate Method	Select the item, and then press Yes key.
Caution	The number of detections of non-genuine cartridge and the page count of non-genuine cartridge can be reset.
	However, exchange Log is not reset.
Related Service Mode	COPIER> FUNCTION> MISC-P> CRG-LOG

■ MISC-R

 ${\tt COPIER} \ ({\tt Service} \ {\tt mode} \ {\tt for} \ {\tt printer}) > {\tt FUNCTION} \ ({\tt Operation} \ / \ {\tt inspection} \ {\tt mode}) > {\tt MISC-R}$

SCANLAMP	Lighting check of CIS Unit LED: front
Detail	To light up the Scanning LED of the Scanner Unit (for front side).
Use Case	When replacing the Scanner Unit
Adj/Set/Operate Method	Select the item, and then press Yes key.
SCAN-ON	Execution of copyboard reading operation
Detail	To execute reading of the original on the Copyboard Glass.
Adj/Set/Operate Method	1) Place paper on the Copyboard Glass. 2) Select the item, and then press Yes key.
SCANLMP2	Lighting check of CIS Unit LED: back
Detail	To light up the Scanning LED of the Scanner Unit (for back side).
Use Case	When replacing the Scanner Unit
Adj/Set/Operate Method	Select the item, and then press Yes key.
1PSCLB-A	Exe frt/bck clr differ calibration: frt
Detail	To read the DC for calibrating color difference between the front and healt sides with the Conner
Detail	To read the PG for calibrating color difference between the front and back sides with the Scanner Unit (for front side) in order to correct the color difference between the front and back sides at duplex stream reading. A significant color difference may occur between the images on the front and back sides scanned with the ADF 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	Unit (for front side) in order to correct the color difference between the front and back sides at duplex stream reading. A significant color difference may occur between the images on the front and back sides scanned with the ADF caused by variations in the LED and changes in durability. Such a color difference
	Unit (for front side) in order to correct the color difference between the front and back sides at duplex stream reading. A significant color difference may occur between the images on the front and back sides scanned with the ADF 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	Unit (for front side) in order to correct the color difference between the front and back sides at duplex stream reading. A significant color difference may occur between the images on the front and back sides scanned with the ADF caused by variations in the LED and changes in durability. Such a color difference is corrected by executing 1PSCLB-B following 1PSCLB-A. When a significant color difference occurs between the front and back side at ADF duplex reading 1) Place the paper on which PG is printed on the ADF.
Use Case Adj/Set/Operate Method	Unit (for front side) in order to correct the color difference between the front and back sides at duplex stream reading. A significant color difference may occur between the images on the front and back sides scanned with the ADF caused by variations in the LED and changes in durability. Such a color difference is corrected by executing 1PSCLB-B following 1PSCLB-A. When a significant color difference occurs between the front and back side at ADF duplex reading 1) Place the paper on which PG is printed on the ADF. 2) Select the item, and then press OK key. - Do not turn OFF/ON the main power switch during execution of 1PSCLB-A and then 1PSCLB-B. - Until 1 is displayed in both 1P-ERR-A and 1P-ERR-B, calibration of color difference between the

 ${\tt COPIER} \ ({\tt Service} \ {\tt mode} \ {\tt for} \ {\tt printer}) > {\tt FUNCTION} \ ({\tt Operation} \ / \ {\tt inspection} \ {\tt mode}) > {\tt MISC-R}$

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1PSCLB-B	Exe frt/bck clr differ calibration: bck
Detail	To read the PG for calibrating color difference between the front and back sides with the Scanner Unit (for back side) in order to correct the color difference between the front and back sides at duplex stream reading. A significant color difference may occur between the images on the front and back sides scanned with the ADF 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 ADF duplex reading
Adj/Set/Operate Method	1) Place the paper used by 1PSCLB-A on the ADF 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 during execution of 1PSCLB-A and then 1PSCLB-B. Until 1 is displayed in both 1P-ERR-A and 1P-ERR-B, calibration of color difference between the front and back sides is not completed.
Related Service Mode	COPIER> FUNCTION> MISC-R> 1PSCLB-A COPIER> DISPLAY> CCD> 1P-ERR-A/B
Supplement/Memo	The execution result of this item is displayed in 1P-ERR-B.
1PCLBUDR	ON/OFF frt/bck clr dif calibr I-Imt set
Detail	To set whether to set the lower limit of the target color difference for correction when correcting color difference between the front and back sides at duplex stream reading. In some cases, colors which do not need to be corrected are also corrected by performing color difference correction at duplex stream reading. When 1 is set, the correction level is adjusted to weaken the effect of correction. Unnecessary correction is not executed, but an expected effect may not be obtained for other colors. The result is reflected when color difference correction is executed again after the setting is made.
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 Apply key.
Caution	Expected correction result may not be obtained.
Display/Adj/Set Range	0 to 1 0: OFF 1: ON
Default Value	0
Related Service Mode	COPIER> FUNCTION> MISC-R> 1PSCLB-A/B, 1PCLBOVR
1PCLBOVR	ON/OFF frt/bck clr dif calibr u-lmt set
Detail	To set whether to set the upper limit of the target color difference for correction when correcting color difference between the front and back sides at duplex stream reading. Excessive correction is sometimes made when correcting color difference at duplex stream reading. When 1 or 2 is set, the correction level is adjusted to weaken the effect of correction. Excessive correction is not executed, but an expected effect may not be obtained for other colors. The result is reflected when color difference correction is executed again after the setting is made.
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 Apply 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
Default Value	0
Related Service Mode	COPIER> FUNCTION> MISC-R> 1PSCLB-A/B, 1PCLBUDR

1PCLBRST	Init frt/bck clr difference calibration
Detail	To initialize the correction result of calibration of color difference between the front and back sides. Execute this item when color difference is not corrected appropriately even though 1PSCLB-A/B is executed.
Use Case	When the calibration result is not appropriate
Adj/Set/Operate Method	Select the item, and then press Yes key.
Related Service Mode	COPIER> FUNCTION> MISC-R> 1PSCLB-A/B

■ MISC-P

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SRVC-DAT	Output system data list/system dump list
Detail	To output the system data list and the system dump list in the form of a report. System data list: The service software switches and parameters used in FAX function System dump list: The number of sends/receives, the number of pages sent/received, the number of sheets printed/read, the number of errors, etc.
Adj/Set/Operate Method	Select the item, and then press Yes key.
Supplement/Memo	FAX model only
SYS-DAT	Output of system data list
Detail	To output the system data list in the form of a report. The service software switches and parameters used in FAX function are output.
Adj/Set/Operate Method	Select the item, and then press Yes key.
Supplement/Memo	FAX model only
SYS-DMP	Output of system dump list
Detail	To output the system dump list in the form of a report. The number of sends/receives, the number of pages sent/received, the number of sheets printed/read, the number of errors, etc. are output.
Adj/Set/Operate Method	Select the item, and then press Yes key.
Supplement/Memo	FAX model only
CNTR	Output of counter report
Detail	To output the counter values in the form of a report. The usage of functions (reading, recording, communication and copy) is output.
Adj/Set/Operate Method	Select the item, and then press Yes key.
ERR-LOG	Output of error log report
Detail	To output the error log in the form of a report.
Adj/Set/Operate Method	Select the item, and then press Yes key.
SPEC	Output of spec report
Detail	To output the specifications in the form of a report. The current device specifications such as the location, model information, and ROM version are output.
Adj/Set/Operate Method	Select the item, and then press Yes key.
ERDS-LOG	Output of Embedded-RDS log report
Detail	To output the log relating to Embedded-RDS in the form of a report. The date, time, and code (8 digits) of each error that occurred are output.
Use Case	When using Embedded-RDS
Adj/Set/Operate Method	Select the item, and then press Yes key.
Related Service Mode	COPIER> FUNCTION> INSTALL> COM-LOG
Supplement/Memo	Embedded-RDS: Function to send device information such as the device counter, failure, and consumables to UGW via SOAP protocol UGW (Universal Gate Way): Remote monitoring service system

CRG-LOG	Output cartridge replacement log report
D	etail To output the cartridge replacement log in the form of a report.
Use (When checking the cartridge replacement log
Adj/Set/Operate Met	hod Select the item, and then press Yes key.

■ SYSTEM

COPIER (Service mode for p	, , , , , , , , , , , , , , , , , , , ,
DOWNLOAD	Upgrading of machine firmware:difference
Detail	To upgrade the machine firmware using a USB flash drive. Compare the versions of firmware in the machine and the USB flash drive, and update the differences.
Use Case	At upgrade
Adj/Set/Operate Method	1) Connect the USB flash drive. 2) Select the item, and then press Yes key. The machine restarts in download mode.
Caution	Do not turn OFF/ON the power before "Executing" disappears.
Related Service Mode	COPIER> FUNCTION> SYSTEM> DL-FORCE
PANEL-UP	Upgrading of Control Panel CPU PCB firm
Detail	To upgrade the firmware of the Control Panel CPU PCB using a USB flash drive. Upgrading is performed when PANEL exists in the root directory of the USB flash drive.
Use Case	At upgrade
Adj/Set/Operate Method	 Connect the USB flash drive. Select the item, and then press Yes. Turn OFF/ON the main power.
Caution	Do not turn OFF/ON the power before "Executing" disappears.
Related Service Mode	COPIER> DISPLAY> VERSION> PANEL
LOGWRITE	Writing sublog to USB flash drive
Detail	To write sublog that includes the following information to the USB flash drive. - Job list (job names, user names, and destinations) - Communications log (destinations and user names) - Job log (user names and job names)
Use Case	When analyzing the cause of a problem
Use Case Adj/Set/Operate Method	When analyzing the cause of a problem 1. Connect the USB flash drive. 2. Select the item, and then press Yes. 3. Turn OFF/ON the main power.
	 Connect the USB flash drive. Select the item, and then press Yes.
Adj/Set/Operate Method	 Connect the USB flash drive. Select the item, and then press Yes. Turn OFF/ON the main power.
Adj/Set/Operate Method Caution	 Connect the USB flash drive. Select the item, and then press Yes. Turn OFF/ON the main power. Do not turn OFF/ON the power before "Executing" disappears.
Adj/Set/Operate Method Caution Related Service Mode	1. Connect the USB flash drive. 2. Select the item, and then press Yes. 3. Turn OFF/ON the main power. Do not turn OFF/ON the power before "Executing" disappears. COPIER> FUNCTION> SYSTEM> LOG2USB Read s-mode set VL from USB flash drive
Adj/Set/Operate Method Caution Related Service Mode IMPORT	1. Connect the USB flash drive. 2. Select the item, and then press Yes. 3. Turn OFF/ON the main power. Do not turn OFF/ON the power before "Executing" disappears. COPIER> FUNCTION> SYSTEM> LOG2USB Read s-mode set VL from USB flash drive To read the service mode setting information (excluding those related to Reader/ADF) from the
Adj/Set/Operate Method Caution Related Service Mode IMPORT Detail	1. Connect the USB flash drive. 2. Select the item, and then press Yes. 3. Turn OFF/ON the main power. Do not turn OFF/ON the power before "Executing" disappears. COPIER> FUNCTION> SYSTEM> LOG2USB Read s-mode set VL from USB flash drive To read the service mode setting information (excluding those related to Reader/ADF) from the USB flash drive.
Adj/Set/Operate Method Caution Related Service Mode IMPORT Detail Use Case	1. Connect the USB flash drive. 2. Select the item, and then press Yes. 3. Turn OFF/ON the main power. Do not turn OFF/ON the power before "Executing" disappears. COPIER> FUNCTION> SYSTEM> LOG2USB Read s-mode set VL from USB flash drive To read the service mode setting information (excluding those related to Reader/ADF) from the USB flash drive. When replacing the Main Controller PCB 1. Connect the USB flash drive. 2. Select the item, and then press Yes.
Adj/Set/Operate Method Caution Related Service Mode IMPORT Detail Use Case Adj/Set/Operate Method	1. Connect the USB flash drive. 2. Select the item, and then press Yes. 3. Turn OFF/ON the main power. Do not turn OFF/ON the power before "Executing" disappears. COPIER> FUNCTION> SYSTEM> LOG2USB Read s-mode set VL from USB flash drive To read the service mode setting information (excluding those related to Reader/ADF) from the USB flash drive. When replacing the Main Controller PCB 1. Connect the USB flash drive. 2. Select the item, and then press Yes. 3. Turn OFF/ON the main power.

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EXPORT	Writing of service mode setting value to USB memory
Detail	To write the service mode setting information (excluding those related to Reader/ADF) to the USB flash drive.
Use Case	When replacing the Main Controller PCB
Adj/Set/Operate Method	1) Connect the USB flash drive.
	2) Select the item, and then press Yes key.
	"Executing" disappears when writing is completed.
Related Service Mode	COPIER> FUNCTION> SYSTEM> IMPORT
LOG2USB	Writing of debug log to USB flash drive
Detail	To write the debug log stored in the eMMC PCB to the USB flash drive.
Use Case	When analyzing the cause of a problem
Adj/Set/Operate Method	1) Connect the USB flash drive.
	2) Select the item, and then press Yes key.
Related Service Mode	COPIER> FUNCTION> SYSTEM> LOGWRITE
LOG-DEL	Deletion of debug log
Detail	To delete the debug log stored in the eMMC PCB.
Use Case	When the debug log is no longer needed
Adj/Set/Operate Method	Select the item, and then press Yes key.
DL-FORCE	Install machine firmware: overwriting
Detail	To forcibly overwrite the machine firmware with the firmware stored in the USB flash drive.
Use Case	At upgrade/downgrade
Adj/Set/Operate Method	1) Connect the USB flash drive.
	2) Select the item, and then press Yes key.
Caution	Do not turn OFF/ON the power before "Executing" disappears.
Related Service Mode	COPIER> FUNCTION> SYSTEM> DOWNLOAD

■ SPLMAN

SPL14159	ON/OFF of USB device ID fixing
Detail	To set whether to fix the USB device ID to "00000000000". A PC attempts to install the driver every time it is connected to a machine. However, by fixing the USB device ID, it recognizes that the same machine is connected so that it does not attempt to install the driver again.
Use Case	When saving the trouble of selecting a device used for printing from the candidate devices because the driver is installed every time a USB is connected
Adj/Set/Operate Method	1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON
Default Value	0

SPL65677	Increase of paper leading edge margin
Detail	To increase the margin on the leading edge of paper. As the value is incremented by 1, the margin is increased by 0.1 mm. Actually, a value where the setting value of SPL68676 is subtracted from the setting value of this item is applied. The margin settings which are job-specific or based on the printable area are applied regardless of the setting of this item.
Adj/Set/Operate Method	1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range	0 to 20
Unit	0.1 mm
Default Value	0
Related Service Mode	COPIER> FUNCTION> SPLMAN> SPL68676
SPL68676	Decrease of paper leading edge margin
Detail	To decrease the margin on the leading edge of paper. As the value is incremented by 1, the margin is decreased by 0.1 mm. Actually, a value where the setting value of this item is subtracted from the setting value of SPL65677 is applied. The margin settings which are job-specific or based on the printable area are applied regardless of the setting of this item.
Adj/Set/Operate Method	 Enter the setting value, and then press Apply key. Turn OFF/ON the main power switch.
Display/Adj/Set Range	0 to 20
Unit	0.1 mm
Default Value	0
Related Service Mode	COPIER> FUNCTION> SPLMAN> SPL65677
SPL68677	Increase of the left edge margin of paper
Detail	To increase the margins on the left edge of paper. As the value is incremented by 1, the margin is increased by 0.1 mm. Actually, a value where the setting value of SPL25607 is subtracted from the setting value of thi item is applied. The margin settings which are job-specific or based on the printable area are applied regardless of the setting of this item.
Adj/Set/Operate Method	1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range	0 to 20
Unit	0.1 mm
Default Value	0
Related Service Mode	COPIER> FUNCTION> SPLMAN> SPL25607
Related Service Mode	COPIER> FUNCTION> SPLMAN> SPL25607
Related Service Mode SPL25607	COPIER> FUNCTION> SPLMAN> SPL25607 Decrease of the left edge margin of paper To decrease the margins on the left edge of paper. As the value is incremented by 1, the margin is decreased by 0.1 mm. Actually, a value where the setting value of this item is subtracted from the setting value of SPL68677 is applied. The margin settings which are job-specific or based on the printable area are applied regardless.
Related Service Mode SPL25607 Detail	COPIER> FUNCTION> SPLMAN> SPL25607 Decrease of the left edge margin of paper To decrease the margins on the left edge of paper. As the value is incremented by 1, the margin is decreased by 0.1 mm. Actually, a value where the setting value of this item is subtracted from the setting value of SPL68677 is applied. The margin settings which are job-specific or based on the printable area are applied regardless of the setting of this item. 1) Enter the setting value, and then press Apply key.
Related Service Mode SPL25607 Detail Adj/Set/Operate Method	COPIER> FUNCTION> SPLMAN> SPL25607 Decrease of the left edge margin of paper To decrease the margins on the left edge of paper. As the value is incremented by 1, the margin is decreased by 0.1 mm. Actually, a value where the setting value of this item is subtracted from the setting value of SPL68677 is applied. The margin settings which are job-specific or based on the printable area are applied regardless of the setting of this item. 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch.
Related Service Mode SPL25607 Detail Adj/Set/Operate Method Display/Adj/Set Range	COPIER> FUNCTION> SPLMAN> SPL25607 Decrease of the left edge margin of paper To decrease the margins on the left edge of paper. As the value is incremented by 1, the margin is decreased by 0.1 mm. Actually, a value where the setting value of this item is subtracted from the setting value of SPL68677 is applied. The margin settings which are job-specific or based on the printable area are applied regardless of the setting of this item. 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. 0 to 20
Related Service Mode SPL25607 Detail Adj/Set/Operate Method Display/Adj/Set Range Unit	COPIER> FUNCTION> SPLMAN> SPL25607 Decrease of the left edge margin of paper To decrease the margins on the left edge of paper. As the value is incremented by 1, the margin is decreased by 0.1 mm. Actually, a value where the setting value of this item is subtracted from the setting value of SPL68677 is applied. The margin settings which are job-specific or based on the printable area are applied regardless of the setting of this item. 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. 0 to 20 0.1 mm

COPIER (Service mode for p	printer) > FUNCTION (Operation / inspection mode) > SPLMAN
SPL93822	Setting of department ID count all clear
Detail	To set whether to disable clearing of all department ID counts.
Use Case	When prohibiting clearing of all department ID counts
Adj/Set/Operate Method	1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch.
Caution	Be sure to perform this mode after consulting with the system administrator at user's site.
Display/Adj/Set Range	0 to 1 0: Disabled 1: Enabled
Default Value	0
Related Service Mode	COPIER> FUNCTION> SPLMAN> SPL78788
SPL78788	Setting of department ID count clear
Detail	To set whether to disable clearing of department ID count.
Use Case	When prohibiting clearing of department ID count
Adj/Set/Operate Method	1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch.
Caution	Be sure to perform this mode after consulting with the system administrator at user's site.
Display/Adj/Set Range	0 to 1 0: Disabled 1: Enabled
Default Value	0
Related Service Mode	COPIER> FUNCTION> SPLMAN> SPL93822
SPL71100	Setting of the duty of Off-hook PCB
Detail	This is the mode to make handsets of particular manufacturers to ring when fax reception mode is set to "Fax / Tel (Auto Switch)".
Use Case	When making the handsets of particular manufacturers to ring at the time of switching Fax/Tel
Adj/Set/Operate Method	1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range	1 to 99
Default Value	50
Supplement/Memo	FAX model only
SPL00171	Set auto sleep shift time maximum value
Detail	To set the maximum auto sleep shift time displayed in [Auto Sleep Time] in [Settings/Registration]. When 0 is set, the time that can be set is 60 minutes maximum.
Use Case	When changing the setting time to shift to auto sleep mode
Adj/Set/Operate Method	1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range	0 to 1 0: 60 minutes 1: Time specified for each model
Default Value	0 (Europe)/1 (Others)
Additional Functions Mode	Timer Settings> Auto Sleep Time

COPIER (Service mode for p	rinter) > FUNCTION (Operation / inspection mode) > SPLMAN
SPL80100	ON/OFF image left edge mask: book mode
Detail	To set whether to mask the left edge of the image at copyboard reading. When 0 is set, mask with the width based on the specification is applied for each job. When 1 is set, mask is canceled.
Use Case	Upon user's request (to print the left edge of the image)
Adj/Set/Operate Method	1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range	0 to 1 0: ON, 1: OFF
Default Value	0
SPL27354	For R&D
SPL84194	ON/OFF of Embedded-RDS
Detail	To set ON/OFF of Embedded-RDS function.
Use Case	When using Embedded-RDS
Adj/Set/Operate Method	1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range	0 to 1 0: ON, 1: OFF
Default Value	It differs according to the location.
Supplement/Memo	Embedded-RDS: Function to send device information such as the device counter, failure, and consumables to UGW via SOAP protocol UGW (Universal Gate Way): Remote monitoring service system
SPL32620	ON/OFF of PC-less update function
Detail	To set whether to disable the PC-less update function.
Adj/Set/Operate Method	1) Enter the setting value, and then press Apply key. 2) Turn OFF / ON the main power switch.
Caution	When LCDSFLG is 1, the setting of this item is disabled (the PC-less update function is turned OFF).
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON
Default Value	1
Related Service Mode	COPIER> OPTION> FNC-SW> LCDSFLG
Supplement/Memo	PC-less update: A function to directly download the firmware from the GDLS server and update it.
SPL60061	Dspl/hide cloud print connct dest URL chng scrn
Detail	To set whether to display or hide the connection destination URL settings for Google Cloud Print on remote UI.
Use Case	When Google has changed the connection destination URL for cloud print
Adj/Set/Operate Method	 Enter the setting value, and then press Apply key. Turn OFF / ON the main power switch.
Display/Adj/Set Range	0 to 1 0: Display 1: Hide

COPIER (Service mode for p	rinter) > FUNCTION (Operation / inspection mode) > SPLMAN
SPL01734	ON/OFF of remote UI service mode
Detail	To set whether to allow using service mode on remote UI.
Use Case	When using service mode on remote UI
Adj/Set/Operate Method	1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch.
Caution	The setting value is linked with that of RMT-SW.
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON
Default Value	0
Related Service Mode	COPIER> OPTION> BODY> RMT-SW
SPL78148	For R&D
SPL39533	ON/OFF of department ID management
Detail	To set whether to disable the department ID management.
Use Case	When disabling the department ID management
Adj/Set/Operate Method	Select the item, and then press Yes key.
SPL43810	Clear of system administrator settings
Detail	To completely delete the following setting information System Manager ID - PIN After clearing of the information, it is necessary to set the system manager ID/PIN again.
Use Case	When the system manager ID/PIN has been forgotten
Adj/Set/Operate Method	Select the item, and then press Yes key.
Caution	Do not forget to set the system manager ID/PIN after clearing of the information.
SPL08159	ON/OFF of fax image backup data clear
Detail	To set whether to clear the fax image data which has been backed up. When 1 is set, it is cleared at next startup.
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON
Default Value	0
SPL97097	ON/OFF of user setting backup data clear
Detail	To set whether to clear all the user setting data which has been backed up. When 1 is set, it is cleared at next startup.
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON
Default Value	1
SPL09876	For R&D



OPTION (Specification setting mode)

■ BODY

COPIER (Service mode for printer) > OPTION (Specification setting mode) > BODY

DFDST-L1	Adj image correction level: stream read
Detail	To set whether to perform image correction between originals in the Scanner Unit at stream reading based on the result of dust detection. Increase the value when black lines appear. As the value is larger, the image is more likely to be corrected because the machine is more likely to respond to small dust. Decrease the value if a fine image portion is unclear as a result of dust detection correction control. As the value is smaller, the image is less likely to be corrected because the machine is less likely to respond to dust.
Use Case	When black line occurs due to dustUpon user's request
Adj/Set/Operate Method	1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch.
Caution	 If the value is too large, a fine image portion may be unclear. If the value is too small, black lines may appear on the image. When the value of DFDST-L1 is changed to any value other than 0 while the values of DFDST-L1 and DFDST-L2 are 0, the value of DFDST-L2 is returned to the previous value (a value before setting 0). When setting 0 for DFDST-L2, the value of DFDST-L1 also become 0 automatically (image correction is not performed).
Display/Adj/Set Range	0 to 255 0: OFF
Default Value	200
Related Service Mode	COPIER> OPTION> BODY> DFDST-L2
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.
DF2DSTL1	Adj dust dtct level: stream read, back
Detail	To adjust the level of dust detection that is executed between originals in the Scanner Unit (for back side) at stream reading. Reduce 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. 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 Apply key. 2) Turn OFF/ON the main power switch.
Caution	If the value is too large, the cleaning instruction screen may appear too often since even small dust that will not appear on the image can be detected. If the value is too small, black lines may appear.
Display/Adj/Set Range	1 to 255 1 to 84: Weakest 85 to 169: Weak 170 to 254: Moderate 255: Strong
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.

LOCALE	Setting of location
Detail	To set the location. Set the location in this item and the paper size configuration in SIZE-LC, and then clear the setting information in ALL.
Use Case	- When replacing the Main Controller PCB - When changing the location information
Adj/Set/Operate Method	1) Enter the setting value in this item, and then press Apply key. 2) Set the paper size configuration in SIZE-LC. 3) Execute ALL. 4) Turn OFF/ON the main power switch.
Caution	The setting information such as user mode and service mode is initialized by executing ALL. The settings of this item and SIZE-LC are not initialized.
Display/Adj/Set Range	1 to 10 1: Japan 2: North America 3: Korea 4: China 5: Taiwan 6: Europe 7: Asia 8: Oceania 9: Brazil 10: Latin
Related Service Mode	COPIER> FUNCTION> CLEAR> ALL COPIER> OPTION> BODY> SIZE-LC
SIZE-LC	Setting of paper size configuration
Detail	To set the paper size configuration. When replacing the Main Controller PCB, set the location in LOCALE and the paper size configuration in this item, and then clear the setting information in ALL.
Use Case	- When replacing the Main Controller PCB - Upon user's request
Adj/Set/Operate Method	1) Set the location in LOCALE. 2) Enter the setting value in this item, and then press Apply key. 3) Execute ALL. 4) Turn OFF/ON the main power switch.
Caution	The setting information such as user mode and service mode is initialized by executing ALL. The settings of this item and LOCALE are not initialized.
Display/Adj/Set Range	1 to 4 1: AB configuration 2: Inch configuration 3: A configuration 4: AB/Inch configuration
Related Service Mode	COPIER> FUNCTION> CLEAR> ALL COPIER> OPTION> BODY> LOCALE

COPIER (Service mode for p	finiter) > OP FION (Specification setting mode) > BOD f
MIBCOUNT	Set of charge counter MIB scope range
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 Apply 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 COUNTER 1 to 6
Default Value	0
Related Service Mode	COPIER> OPTION> USER> COUNTER1 - 6
NS-CMD5	Limit CRAM-MD5 auth method: SMTP auth
Detail	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 Apply 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	Limit plaintext auth: SMTP auth, noencry
Detail	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 Apply 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	Limit LOGIN authentication: SMTP auth
Detail	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 Apply 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.

COPIEK (Service mode for p	orinter) > OPTION (Specification setting mode) > BODY
SLPMODE	Setting of shift to sleep mode
Detail	To restrict shift to sleep mode 1/sleep mode 3.
	When 1 is set, the machine does not shift to sleep mode.
Use Case	When sleep failure occurs
Adj/Set/Operate Method	 Enter the setting value, and then press Apply key. Turn OFF/ON the main power switch.
Display/Adj/Set Range	0 to 1 0 : Shift is available. 1 : Shift is not available.
Default Value	0
SDTM-DSP	ON/OFF of auto shutdown shift time dspl
Detail	To set whether to display [Auto Shutdown Time] in [Menu]. The setting is enabled only for the model with automatic shutdown function.
Use Case	When switching to display or hide the items related to auto shutdown
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Caution	For the model without automatic shutdown function, the setting is disabled even if it is configured.
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
RMT-SW	ON/OFF of remote UI service mode
Detail	To set whether to allow using service mode on remote UI.
Use Case	When using service mode on remote UI
Adj/Set/Operate Method	Enter the setting value, and then press Apply key. Turn OFF/ON the main power switch.
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON
Default Value	0
PSWD-SW	Set password type 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	service technician after the password entry by the user's system administrator. Upon request from the user who concerns security
Use Case Adj/Set/Operate Method	
	Upon request from the user who concerns security 1) Enter the setting value, and then press Apply key.

SM-PSWD	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 Apply 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	11111111 to 99999999
Default Value	11111111
Related Service Mode	COPIER> OPTION> BODY> PSWD-SW

■ FNC-SW

COPIER (Service mode for printer) > OPTION (Specification setting mode) > FNC-SW

LCDSFLG	Enabling of local CDS server
Detail	To set whether to use the local CDS server.
Use Case	When using the local CDS server
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 1
Display/Auj/Set Kalige	0: Disabled
	1: Enabled
Default Value	0
Related Service Mode	COPIER> FUNCTION> SPLMAN> SPL32620
Supplement/Memo	When local CDS is used, iW EMC/MC device firmware update plug-in is required.
CRG-PROC	Set oprtn at cartridge estd life reach
Detail	To set the operation of the machine when the parts counter of the cartridge reaches the estimated life value.
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 2
	0: Not stopped
	1: Stopped once
D.C. KW.L.	2: Completely stopped
Default Value	0
CRGLF-K	Set replacement ref VL (Bk): drum, etc.
Detail	To set the reference values for judging replacement of the component other than toner (Photosensitive Drum, Developing Assembly, and waste toner) included in the life of Bk-color cartridge.
	These values are used as the basis for calculation of component other than toner when deriving the estimated life value of the cartridge.
Use Case	When toner consumption is low (when the life of the Photosensitive Drum or the Developing Assembly decreases faster than that of toner)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	100 to 200
Unit	1%
Default Value	100

RPT2SIDE	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	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 1
	0: 1-sided
	1: 2-sided
Default Value	1

■ DSPLY-SW

COPIER (Service mode for printer) > OPTION (Specification setting mode) > DSPLY-SW

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CRGLW-LV	ON/OFF ctrdg prep thrshid set scrn dspl
Detail	To set whether to display the screen to set the threshold value for the toner level to prompt preparation of a cartridge. When 1 is set, [Custom] is displayed in [Display Timing for Cartridge Prep. Notif.] so that the user can set the toner level (1 to 99%).
	When 0 is set, the item is not displayed, so the user cannot set the toner level.
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON
Default Value	1
Additional Functions Mode	Preferences > Display Settings > Display Timing for Cartridge Prep. Notif.
CRG-LOG	ON/OFF of [Cartridge Log Report] display
Detail	To set whether to display [Cartridge Log Report] in [Settings/Registration].
Use Case	When not allowing the user to output the cartridge log report
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 1 0: OFF 1: ON
Default Value	1
Additional Functions Mode	Output Report> Print List> Cartridge Log Report

■ IMG-MCON

COPIER (Service mode for printer) > OPTION (Specification setting mode) > IMG-MCON

REGM-SEL	Adjustment of fine density correction
Detail	To adjust the fine line and text density at 1200 dpi. As the value is larger, the image gets darker.
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press Apply key.
Display/Adj/Set Range	-1 to 1
Default Value	0

■ USER

COPIER (Service mode for printer) > OPTION (Specification setting mode) > USER

COFIER (Service mode for p	miler) > OP HON (Specification setting mode) > USER
COUNTER1	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.
Display/Adj/Set Range	0 to 999
	0: No registration
Default Value	It differs according to the location.
COUNTER2	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 Apply 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	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 Apply 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.
COUNTER4	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 Apply 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	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	Enter the setting value, and then press Apply key. 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		
COUNTER6	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 Apply 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.	
CNT-SW	Set default Display 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 Apply key. 2) Turn OFF/ON the main power switch.	
Display/Adj/Set Range	0 to 3 0: Type1 1: Type2 2: Type3 3: Type4	
Default Value	0	
CONTROL	Charge setting of PDL job	
Detail	To set charge count transmission of PDL job to the connecting charging management device (Coin Manager or non-Canon-made control card).	
	To set charge count transmission of PDL job to the connecting charging management device (Coin	
Detail	To set charge count transmission of PDL job to the connecting charging management device (Coin Manager or non-Canon-made control card).	
Detail Use Case	To set charge count transmission of PDL job to the connecting charging management device (Coin Manager or non-Canon-made control card). Upon user's request 1) Enter the setting value, and then press Apply key.	
Detail Use Case Adj/Set/Operate Method	To set charge count transmission of PDL job to the connecting charging management device (Coin Manager or non-Canon-made control card). Upon user's request 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. 0 to 2 0: Output is available without control card. Not counted. 1: Output is available at insertion of the card. Counted.	
Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range	To set charge count transmission of PDL job to the connecting charging management device (Coin Manager or non-Canon-made control card). Upon user's request 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. 0 to 2 0: Output is available without control card. Not counted. 1: Output is available at insertion of the card. Counted. 2: Output is available at insertion of the card. Not counted.	
Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value	To set charge count transmission of PDL job to the connecting charging management device (Coin Manager or non-Canon-made control card). Upon user's request 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. 0 to 2 0: Output is available without control card. Not counted. 1: Output is available at insertion of the card. Counted. 2: Output is available at insertion of the card. Not counted.	
Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value CTCHKDSP	To set charge count transmission of PDL job to the connecting charging management device (Coin Manager or non-Canon-made control card). Upon user's request 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. 0 to 2 0: Output is available without control card. Not counted. 1: Output is available at insertion of the card. Counted. 2: Output is available at insertion of the card. Not counted. 0 ON/OFF of charge counter list output	
Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value CTCHKDSP Detail	To set charge count transmission of PDL job to the connecting charging management device (Coin Manager or non-Canon-made control card). Upon user's request 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. 0 to 2 0: Output is available without control card. Not counted. 1: Output is available at insertion of the card. Counted. 2: Output is available at insertion of the card. Not counted. 0 ON/OFF of charge counter list output To set whether to print the charge counter in the system management data list.	
Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value CTCHKDSP Detail Use Case	To set charge count transmission of PDL job to the connecting charging management device (Coin Manager or non-Canon-made control card). Upon user's request 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. 0 to 2 0: Output is available without control card. Not counted. 1: Output is available at insertion of the card. Counted. 2: Output is available at insertion of the card. Not counted. 0 ON/OFF of charge counter list output To set whether to print the charge counter in the system management data list. Upon user's request 1) Enter the setting value, and then press Apply key.	
Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value CTCHKDSP Detail Use Case Adj/Set/Operate Method	To set charge count transmission of PDL job to the connecting charging management device (Coin Manager or non-Canon-made control card). Upon user's request 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. 0 to 2 0: Output is available without control card. Not counted. 1: Output is available at insertion of the card. Counted. 2: Output is available at insertion of the card. Not counted. 0 ON/OFF of charge counter list output To set whether to print the charge counter in the system management data list. Upon user's request 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. 0 to 1	

set. Setting of a value other than the setting values means that multiple settings are combined. (Example: 12=4+8) Use Case Upon user's request Adj/Set/Operate Method 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. Display/Adj/Set Range 0 to 63 8: strokeadjustment is enabled Any value other than those mentioned above: Not used Default Value 0 SMD-EXPT Set of service mode set VL export target 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 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. Display/Adj/Set Range 0 to 1 0: Not targeted 1: Targeted Default Value 0	COPIER (Service mode for p	printer) > OPTION (Specification setting mode) > USER
When 1 is set, the user can check the toner replacement counter. Jupon user's request 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. Display/Adj/Set Range Default Value Default Value PS-MODE Setting of compatible mode at PS usage 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. Setting of a value other than the setting values means that multiple settings are combined. (Example: 12-44-8) Upon user's request Adj/Set/Operate Method Display/Adj/Set Range Default Value Default Value Default Value Set of service mode set VL export target Default Value Use Case Adj/Set/Operate Method Use Case Adj/Set/Operate Method Default Value Default Value Default Value O SMD-EXPT Set of service mode set VL export target Use Case Adj/Set/Operate Method Use Case Adj/Set/Operate Method Default Value Use Case Adj/Set/Operate Method To set whether to export "service mode data" from remote UI. When installing more than 1 machine at the same time 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. Display/Adj/Set Range Adj/Set/Operate Method Default Value Use Case Adj/Set/Operate Method To set whether to export "service mode data" from remote UI. When installing more than 1 machine at the same time 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. Display/Adj/Set Range Office the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. To set whether to shift to sleeps. Card Reader connect To set whether to shift to sleeps. Card Reader connect To set whift to sleeps. Card Reader connect O to 1 Not targeted Dotall To set whift to sleeps. Card Reader connect O to 1 Not targeted Display/Adj/Set Range	TNRB-SW	ON/OFF of toner replacement counter display
Adj/Set/Operate Method Display/Adj/Set Range Default Value PS-MODE Setting of compatible mode at PS usage Default Value Default Of value other than the setting values means that multiple settings are combined. (Example: 12-44-8) Upon user's request Adj/Set/Operate Method Default Value Default Value To set whether to export "service mode data" from remote UI. When it is set, "service mode data" is displayed as the target data of export on remote UI after setting SMD-EXI Display/Adj/Set Range Use Case Adj/Set/Operate Method Default Value Default Value SMD-EXPT Set of service mode set VL export target Use Case Adj/Set/Operate Method Default Value SMD-EXPT Detail To set whether to export "service mode data" from remote UI. When it is set, "service mode data" is displayed as the target data of export on remote UI. When itsalling more than 1 machine at the same time, the same service mode data can be registered. Default Value Default Value Default Value Supplement/Memo Supplement/Memo Supplement/Memo Display/Adj/Set Range Detail To set whether to export service mode data" as the target data of export on remote UI after setting SMD-EXI Targeted Default Value Supplement/Memo Display/Adj/Set Range Detail To set whether to shift to sleep mode 3 when the Card Reader is connected. Enter the setting value, and then press Apply key. Display/Adj/Set Range Detail Adj/Set/Operate Method Display/Adj/Set Range Display/Adj/Set Range Display/Adj/Set Range Display/Adj/Set Range Display/Adj/Set Range Detail Adj/Set/Operate Method Display/Adj/Set Range	Detail	
Display/Adj/Set Range Default Value PS-MODE Setting of compatible mode at PS usage Default Value PS-MODE Setting of compatible mode at PS usage Default Value PS-MODE Default Value PS-MODE Setting of compatible mode at PS usage Default Value PS-MODE Default Value PS-MODE Setting of a value other than the setting values means that multiple settings are combined. (Example: 12=4+8) Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value SMD-EXPT Set of service mode set VL export target Default Value Vise Case When installing more than 1 machine at the same time. the same service mode data can be register. When 1 is set, "service mode data" is displayed as the target data of export on remote UI. When its alling more than 1 machine at the same time. the same service mode data can be register. Default Value Default Value SMD-EXPT Set of service mode data" as the target data of export on remote UI. When 1 is set, "service mode data" in the same time. the same service mode data can be register. Vise Case When installing more than 1 machine at the same time, the same service mode data can be register. Display/Adj/Set Range Default Value Supplement/Memo if selecting "service mode data" as the target data of export on remote UI after setting SMD-EX to 1, service mode data" as the target data of export on remote UI after setting SMD-EX to 1, service mode data can be exported. ACC-SLP Set shift to sleep3: Card Reader connect Detail Adj/Set/Operate Method Display/Adj/Set Range Detail To set whether to shift to sleep mode 3 when the Card Reader is connected. Enter the setting value, and then press Apply key. Display/Adj/Set Range Display/Adj/Set Range	Use Case	Upon user's request
Default Value Display/Adj/Set Range Default Value O Supplement/Memo Display/Adj/Set Range Default Value Default Value O Co Not targeted 1: Targeted Default Value Default Value Default Value O Supplement/Memo O: Not argeted 1: Targeted Default Value Default Value O Supplement/Memo Display/Adj/Set Range Default Value O: Not shifted Display/Adj/Set Range Detail Adj/Set/Operate Method Display/Adj/Set Range Detail Adj/Set/Operate Method Display/Adj/Set Range Detail Adj/Set/Operate Method Display/Adj/Set Range	Adj/Set/Operate Method	
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. Setting of a value other than the setting values means that multiple settings are combined. (Example: 12=4+8) Upon user's request	Display/Adj/Set Range	0: Hide 1: Display (Toner replacement counters in the 190s)
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. Setting of a value other than the setting values means that multiple settings are combined. (Example: 12=4+8) Use Case Adj/Set/Operate Method Display/Adj/Set Range O to 63 8: strokeadjustment is enabled Any value other than those mentioned above: Not used Default Value Default Value O SMD-EXPT 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. When installing more than 1 machine at the same time Adj/Set/Operate Method Display/Adj/Set Range Default Value Supplement/Memo If selecting "service mode data" as the target data of export on remote UI after setting SMD-EXI O to 1 O: Not targeted Default Value Supplement/Memo ACC-SLP Set shift to sleep3: Card Reader connect Do to 1 O: Not shifted Display/Adj/Set Range	Default Value	0
Set 8 when line width differs depending on the drawing position although the same line width is set. Setting of a value other than the setting values means that multiple settings are combined. (Example: 12=4+8) Use Case Adj/Set/Operate Method 1 Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. Display/Adj/Set Range 0 to 63 8: strokeadjustment is enabled Any value other than those mentioned above: Not used Default Value 0 SMD-EXPT Set of service mode set VL export target 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. When installing more than 1 machine at the same time 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. Display/Adj/Set Range Default Value Supplement/Memo If selecting "service mode data" as the target data of export on remote UI after setting SMD-EXI to 1, service mode data can be exported. ACC-SLP Set shift to sleep3: Card Reader connect To set whether to shift to sleep mode 3 when the Card Reader is connected. Enter the setting value, and then press Apply key. 0 to 1 0: Not shifted 1: Shifted	PS-MODE	Setting of compatible mode at PS usage
Adj/Set/Operate Method 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. 0 to 63 8: strokeadjustment is enabled Any value other than those mentioned above: Not used 0 SMD-EXPT Set of service mode set VL export target 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. Use Case When installing more than 1 machine at the same time 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. Display/Adj/Set Range Default Value Supplement/Memo If selecting "service mode data" as the target data of export on remote UI after setting SMD-EXI to 1, service mode data can be exported. ACC-SLP Set shift to sleep3: Card Reader connect To set whether to shift to sleep mode 3 when the Card Reader is connected. Enter the setting value, and then press Apply key. O to 1 O: Not shifted Display/Adj/Set Range O to 1 O: Not shifted 1: Shifted	Detail	Set 8 when line width differs depending on the drawing position although the same line width is set. Setting of a value other than the setting values means that multiple settings are combined.
2) Turn OFF/ON the main power switch. 0 to 63 8: strokeadjustment is enabled Any value other than those mentioned above: Not used Default Value SMD-EXPT Set of service mode set VL export target 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. When installing more than 1 machine at the same time 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. Display/Adj/Set Range Default Value Supplement/Memo If selecting "service mode data" as the target data of export on remote UI after setting SMD-EXI to 1, service mode data can be exported. ACC-SLP Set shift to sleep3: Card Reader connect Detail Adj/Set/Operate Method Display/Adj/Set Range Oto 1 O: Not shifted Enter the setting value, and then press Apply key. Oto 1 O: Not shifted 1: Shifted	Use Case	Upon user's request
8: strokeadjustment is enabled Any value other than those mentioned above: Not used Default Value SMD-EXPT Set of service mode set VL export target 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. When installing more than 1 machine at the same time Adj/Set/Operate Method Display/Adj/Set Range Default Value Supplement/Memo If selecting "service mode data" as the target data of export on remote UI after setting SMD-EXI to 1, service mode data can be exported. ACC-SLP Set shift to sleep3: Card Reader connect To set whether to shift to sleep mode 3 when the Card Reader is connected. Enter the setting value, and then press Apply key. O to 1 O: Not shifted Shifted	Adj/Set/Operate Method	
Detail 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 stalling more than 1 machine at the same time, the same service mode data can be registered. When installing more than 1 machine at the same time. When installing more than 1 machine at the same time. 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. Display/Adj/Set Range Default Value Supplement/Memo If selecting "service mode data" as the target data of export on remote UI after setting SMD-EXI to 1, service mode data can be exported. ACC-SLP Set shift to sleep3: Card Reader connect Detail Adj/Set/Operate Method Display/Adj/Set Range O to 1 O: Not shifted 1: Shifted	Display/Adj/Set Range	8: strokeadjustment is enabled
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. When installing more than 1 machine at the same time. When installing more than 1 machine at the same time. Adj/Set/Operate Method 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. Display/Adj/Set Range O to 1 0: Not targeted 1: Targeted Default Value Supplement/Memo If selecting "service mode data" as the target data of export on remote UI after setting SMD-EXI to 1, service mode data can be exported. ACC-SLP Set shift to sleep3: Card Reader connect To set whether to shift to sleep mode 3 when the Card Reader is connected. Enter the setting value, and then press Apply key. Display/Adj/Set Range O to 1 0: Not shifted 1: Shifted	Default Value	0
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. When installing more than 1 machine at the same time. Migher installing more than 1 machine at the same time. I Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. I Targeted I Targeted Default Value Supplement/Memo If selecting "service mode data" as the target data of export on remote UI after setting SMD-EXI to 1, service mode data can be exported. ACC-SLP Set shift to sleep3: Card Reader connect To set whether to shift to sleep mode 3 when the Card Reader is connected. Enter the setting value, and then press Apply key. I to 1 O: Not shifted 1: Shifted	SMD-EXPT	Set of service mode set VL export target
Adj/Set/Operate Method 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch. 0 to 1 0: Not targeted 1: Targeted Default Value Supplement/Memo If selecting "service mode data" as the target data of export on remote UI after setting SMD-EXI to 1, service mode data can be exported. ACC-SLP Set shift to sleep3: Card Reader connect To set whether to shift to sleep mode 3 when the Card Reader is connected. Enter the setting value, and then press Apply key. 0 to 1 0: Not shifted 1: Shifted	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.
2) Turn OFF/ON the main power switch. Display/Adj/Set Range 0 to 1 0: Not targeted 1: Targeted Default Value Supplement/Memo If selecting "service mode data" as the target data of export on remote UI after setting SMD-EXI to 1, service mode data can be exported. ACC-SLP Set shift to sleep3: Card Reader connect Detail To set whether to shift to sleep mode 3 when the Card Reader is connected. Enter the setting value, and then press Apply key. Display/Adj/Set Range 0 to 1 0: Not shifted 1: Shifted	Use Case	When installing more than 1 machine at the same time
O: Not targeted 1: Targeted Default Value Supplement/Memo If selecting "service mode data" as the target data of export on remote UI after setting SMD-EXI to 1, service mode data can be exported. ACC-SLP Set shift to sleep3: Card Reader connect To set whether to shift to sleep mode 3 when the Card Reader is connected. Enter the setting value, and then press Apply key. O to 1 O: Not shifted 1: Shifted	Adj/Set/Operate Method	
Supplement/Memo If selecting "service mode data" as the target data of export on remote UI after setting SMD-EXI to 1, service mode data can be exported. Set shift to sleep3: Card Reader connect Detail To set whether to shift to sleep mode 3 when the Card Reader is connected. Enter the setting value, and then press Apply key. Display/Adj/Set Range O to 1 O: Not shifted 1: Shifted	Display/Adj/Set Range	0: Not targeted
to 1, service mode data can be exported. ACC-SLP Set shift to sleep3: Card Reader connect To set whether to shift to sleep mode 3 when the Card Reader is connected. Enter the setting value, and then press Apply key. Display/Adj/Set Range 0 to 1 0: Not shifted 1: Shifted	Default Value	0
Detail To set whether to shift to sleep mode 3 when the Card Reader is connected. Adj/Set/Operate Method Display/Adj/Set Range 0 to 1 0: Not shifted 1: Shifted	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.
Adj/Set/Operate Method Display/Adj/Set Range 0 to 1 0: Not shifted 1: Shifted	ACC-SLP	Set shift to sleep3: Card Reader connect
Display/Adj/Set Range 0 to 1 0: Not shifted 1: Shifted	Detail	To set whether to shift to sleep mode 3 when the Card Reader is connected.
0: Not shifted 1: Shifted	Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
1: Shifted	Display/Adj/Set Range	0 to 1
Default Value 1		0: Not shifted
	Default Value	1

RPL-IMP	ON/OFF of replacement mode
Detail	To set whether to import the setting information of a machine which has been exported to a different one of the same model using DCM function. When 0 is set, the setting information which has been exported can be imported only to the same machine.
	When 1 is set, the machine-specific setting information such as IPv4 address setting can be imported to a different machine.
Use Case	When migrating the setting of a machine to a different machine of the same series that has been replaced
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON
Default Value	0
Supplement/Memo	DCM (Device Configuration Management): A function to export/import the machine's setting information as a file.

■ ACC

COPIER (Service mode for printer) > OPTION (Specification setting mode) > ACC

OOT ILIX (OCTVICE ITIOGE TOT P	rinter) > OPTION (Specification setting mode) > ACC
CARD-SW	Set screen dspl: 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 Apply 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
CC-SPSW	Setting of Control Interface Kit
Detail	To set whether to support the Control Interface Kit.
Use Case	At installation of Coin Manager
Adj/Set/Operate Method	Enter the setting value, and then press Apply key. Turn OFF/ON the main power switch.
Caution	Parallel use with Card Reader is not available.
Display/Adj/Set Range	0 to 1 0: Not supported 1: Supported
Default Value	0
WLAN	Setting of wireless LAN function
Detail	To set whether to enable the wireless LAN function.
Use Case	Upon user's request
Adj/Set/Operate Method	1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch.
Display/Adj/Set Range	0 to 1 0: Disabled 1: Enabled
Default Value	It differs according to the model.

UNIF-OF	Setting of uniFLOW function
Detail	To set whether to enable the uniFLOW function. If 1 is set for this item and power is turned OFF/ON while the uniFLOW function is in operation, the function stops. When the setting value is set to 1, the uniFLOW function is disabled.
Use Case	- When avoiding failure due to error of the uniFLOW function - When connecting to the uniFLOW server is failed due to the error in the machine
Adj/Set/Operate Method	1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch.
Caution	Be sure to change the value back to 0 after servicing.
Display/Adj/Set Range	0 to 1 0: Enabled 1: Disabled
Default Value	0

■ LCNS-TR

 ${\tt COPIER} \ ({\tt Service} \ {\tt mode} \ {\tt for} \ {\tt printer}) > {\tt OPTION} \ ({\tt Specification} \ {\tt setting} \ {\tt mode}) > {\tt LCNS-TR}$

ST-BRDIM	Install state Display of BarDIMM function	
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 Apply key. When installation has been completed, the transfer license key is displayed under TR-BRDIM.	
Default Value According to the setting at shipment		
TR-BRDIM	Trns Icns key Display of BarDIMM function	
Detail	To display transfer license key to use Barcode Printing for PCL when disabling and then transferring the license.	
Use Case	When replacing the device	
Adj/Set/Operate Method	1) Select ST-BRDIM. 2) Enter 0, and then press Apply key. The transfer license key is displayed under TR-BRDIM.	
Display/Adj/Set Range	24 digits	
	Install state dspl:encrypted PDF TX func	
ST-ENPDF	Install state dspl:encrypted PDF TX func	
ST-ENPDF Detail	Install state dspl:encrypted PDF TX func To display installation state of Encryption PDF when disabling and then transferring the license.	
Detail	To display installation state of Encryption PDF when disabling and then transferring the license.	
Detail Use Case	To display installation state of Encryption PDF when disabling and then transferring the license. When checking whether Encryption PDF is installed 1) Select ST-ENPDF. 2) Enter 0, and then press Apply key.	
Detail Use Case Adj/Set/Operate Method	To display installation state of Encryption PDF when disabling and then transferring the license. When checking whether Encryption PDF is installed 1) Select ST-ENPDF. 2) Enter 0, and then press Apply key. When installation has been completed, the transfer license key is displayed under TR-ENPDF.	
Detail Use Case Adj/Set/Operate Method Default Value	To display installation state of Encryption PDF when disabling and then transferring the license. When checking whether Encryption PDF is installed 1) Select ST-ENPDF. 2) Enter 0, and then press Apply key. When installation has been completed, the transfer license key is displayed under TR-ENPDF. According to the setting at shipment	
Detail Use Case Adj/Set/Operate Method Default Value TR-ENPDF	To display installation state of Encryption PDF when disabling and then transferring the license. When checking whether Encryption PDF is installed 1) Select ST-ENPDF. 2) Enter 0, and then press Apply key. When installation has been completed, the transfer license key is displayed under TR-ENPDF. According to the setting at shipment Trns Icns key dspl:encrypted PDF TX func To display transfer license key to use Encryption PDF when disabling and then transferring the	
Detail Use Case Adj/Set/Operate Method Default Value TR-ENPDF Detail	To display installation state of Encryption PDF when disabling and then transferring the license. When checking whether Encryption PDF is installed 1) Select ST-ENPDF. 2) Enter 0, and then press Apply key. When installation has been completed, the transfer license key is displayed under TR-ENPDF. According to the setting at shipment Trns Icns key dspl:encrypted PDF TX func To display transfer license key to use Encryption PDF when disabling and then transferring the license.	
Detail Use Case Adj/Set/Operate Method Default Value TR-ENPDF Detail Use Case	To display installation state of Encryption PDF when disabling and then transferring the license. When checking whether Encryption PDF is installed 1) Select ST-ENPDF. 2) Enter 0, and then press Apply key. When installation has been completed, the transfer license key is displayed under TR-ENPDF. According to the setting at shipment Trns Icns key dspl:encrypted PDF TX func To display transfer license key to use Encryption PDF when disabling and then transferring the license. When replacing the device 1) Select ST-ENPDF. 2) Enter 0, and then press Apply key.	

ST-DVPDF	Install state dspl: device sign PDF TX	
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 Apply key. When installation has been completed, the transfer license key is displayed under TR-DVPDF.	
Default Value	According to the setting at shipment	
TR-DVPDF	Trns lcns key dspl: device sign PDF TX	
Detail	To display transfer license key to use Device Signature PDF when disabling and then transferring the license.	
Use Case	When replacing the device	
Adj/Set/Operate Method	1) Select ST-DVPDF. 2) Enter 0, and then press Apply 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	

■ LCNS-OF

COPIER (Service mode for printer) > OPTION (Specification setting mode) > LCNS-OF

ST-BRDIM	Not use	
ST-ENPDF	Not use	
ST-DVPDF	Not use	



COUNTER (Counter mode)

■ TOTAL

COPIER (Service mode for printer) > COUNTER (Counter mode) > TOTAL

SERVICE1	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
Unit	1 sheet
Default Value	0
SERVICE2	Service-purposed total counter 2
SERVICE2 Detail	Service-purposed total counter 2 To count up when the printout is delivered outside the machine. Large size: 2, Small size: 1 A blank sheet is not counted.
	To count up when the printout is delivered outside the machine. Large size: 2, Small size: 1
Detail	To count up when the printout is delivered outside the machine. Large size: 2, Small size: 1 A blank sheet is not counted.
Detail Adj/Set/Operate Method	To count up when the printout is delivered outside the machine. Large size: 2, Small size: 1 A blank sheet is not counted. N/A (Display only)

COPIER (Service mode for printer) > COUNTER (Counter mode) > TOTAL

COPIER (Service mode for p	rinter) > COUNTER (Counter mode) > TOTAL		
TTL	Total counter		
Detail	To display the total of counters of COPY, PDL-PRT, FAX-PRT, RPT-PRT, and MD-PRT.		
Adj/Set/Operate Method	N/A (Display only)		
Display/Adj/Set Range	0 to 99999999		
Unit	1 sheet		
Default Value	0		
Related Service Mode	COPIER> COUNTER> TOTAL> COPY, PDL-PRT, FAX-PRT, RPT-PRT, MD-PRT		
COPY	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		
Unit	1 sheet		
Default Value	0		
PDL-PRT	PDL print counter		
Detail	To count up when the printout is delivered outside the machine/2-sided printout is stacked 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		
Unit	1 sheet		
Default Value	0		
FAX-PRT	FAX reception print counter		
Detail	To count up when the FAX reception print is delivered outside the machine/2-sided printout is stacked. Large size: 1, Small size: 1 The counter is not advanced by blank paper or delivery in service mode.		
Adj/Set/Operate Method	N/A (Display only)		
Display/Adj/Set Range	0 to 99999999		
Unit	1 sheet		
Default Value	0		
Related Service Mode	COPIER> COUNTER> TOTAL> TTL		
Supplement/Memo	FAX model only		
RPT-PRT	Report print counter		
Detail	To count up when the report print is delivered outside the machine/2-sided printout is stacked. Large size: 1, Small size: 1 The counter is not advanced by blank paper or delivery in service mode.		
Adj/Set/Operate Method	N/A (Display only)		
Display/Adj/Set Range	0 to 99999999		
Unit	1 sheet		
Default Value	0		
Related Service Mode	COPIER> COUNTER> TOTAL> TTL		

COPIER (Service mode for printer) > COUNTER (Counter mode) > TOTAL

MD-PRT	Modio print country		
	Media print counter		
Detail	To count up when the media print is delivered outside the machine.		
	Large size: 1, Small size: 1		
	The counter is not advanced by blank paper or delivery in service mode.		
Adj/Set/Operate Method	N/A (Display only)		
Display/Adj/Set Range	0 to 99999999		
Unit	1 sheet		
Default Value	0		
Related Service Mode	COPIER> COUNTER> TOTAL> TTL		
2-SIDE	2-sided copy/print counter		
Detail	To count up the number of 2-sided copies/prints when the copy/printout is delivered outside the machine/2-sided copy/printout is stacked according to the charge counter. 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		
Unit	t 1 time		
Default Value	0		
SCAN	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		
Unit	1 time		
Default Value	0		

■ PICK-UP

COPIER (Service mode for printer) > COUNTER (Counter mode) > PICK-UP

C1	Cassette 1 pickup total counter		
Detail	To count up the number of sheets picked up from the Cassette 1. Large size: 1, Small size: 1 The counter is advanced by printout in service mode.		
Adj/Set/Operate Method	N/A (Display only)		
Display/Adj/Set Range	0 to 99999999		
Unit	1 sheet		
Default Value	0		
C2	Cassette 2 pickup total counter		
C2 Detail	Cassette 2 pickup total counter To count up the number of sheets picked up from the Cassette 2. Large size: 1, Small size: 1 The counter is advanced by printout in service mode.		
	To count up the number of sheets picked up from the Cassette 2. Large size: 1, Small size: 1		
Detail	To count up the number of sheets picked up from the Cassette 2. Large size: 1, Small size: 1 The counter is advanced by printout in service mode.		
Detail Adj/Set/Operate Method	To count up the number of sheets picked up from the Cassette 2. Large size: 1, Small size: 1 The counter is advanced by printout in service mode. N/A (Display only)		

COPIER (Service mode for printer) > COUNTER (Counter mode) > PICK-UP

MF	Multi-purpose Tray pickup total counter		
Detail	To count up the number of sheets picked up from the Multi-purpose Tray Pickup Unit. Large size: 1, Small size: 1 The counter is advanced by printout in service mode.		
Adi/Cat/Operate Method			
Adj/Set/Operate Method	N/A (Display only)		
Display/Adj/Set Range	0 to 99999999		
Unit	1 sheet		
Default Value	0		
2-SIDE	2-sided pickup total counter		
Detail	To count up the number of sheets picked up in duplex mode. Large size: 1, Small size: 1 The counter is advanced by printout in service mode.		
Adj/Set/Operate Method	N/A (Display only)		
Display/Adj/Set Range	0 to 99999999		
Unit	1 sheet		
Default Value	0		

■ FEEDER

COPIER (Service mode for printer) > COUNTER (Counter mode) > FEEDER

FEED	ADF original pickup total counter		
Detail	To count up the number of originals picked up from the ADF regardless of the size.		
Use Case	When checking the total counter of original pickup by ADF		
Adj/Set/Operate Method	N/A (Display only)		
Display/Adj/Set Range	Adj/Set Range 0 to 99999999		
Unit	1 sheet		
Default Value	0		

■ JAM

COPIER (Service mode for printer) > COUNTER (Counter mode) > JAM

TOTAL	Total jam counter
Detail	To count up the number of total jam occurrences.
Use Case	When checking the jam counter
Adj/Set/Operate Method	N/A (Display only)
Display/Adj/Set Range	0 to 99999999
Unit	1 time
Default Value	0
FEEDER	ADF jam counter
FEEDER Detail	ADF jam counter To count up the number of jam occurrences in the ADF.
	•
Detail	To count up the number of jam occurrences in the ADF.
Detail Use Case	To count up the number of jam occurrences in the ADF. When checking the jam counter
Detail Use Case Adj/Set/Operate Method	To count up the number of jam occurrences in the ADF. When checking the jam counter N/A (Display only)

COPIER (Service mode for printer) > COUNTER (Counter mode) > JAM

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2-SIDE	Duplex Unit jam counter		
Detail	To count up the number of jam occurrences in the Duplex Unit.		
Use Case	When checking the jam counter		
Adj/Set/Operate Method	N/A (Display only)		
Display/Adj/Set Range	0 to 99999999		
Unit	1 time		
Default Value	0		
MF	Multi-purpose Tray jam counter		
Detail	To count up the number of jam occurrences in the Multi-purpose Tray. The counter is advanced even in the case of paper size mismatch or misprint.		
Use Case	When checking the jam counter		
Adj/Set/Operate Method	N/A (Display only)		
Display/Adj/Set Range	0 to 99999999		
Unit	1 time		
Default Value	0		
C1	Cassette 1 jam counter		
Detail	To count up the number of jam occurrences in the Cassette 1. The counter is advanced even in the case of paper size mismatch or misprint.		
Use Case	When checking the jam counter		
Adj/Set/Operate Method	N/A (Display only)		
Display/Adj/Set Range	0 to 99999999		
Unit	1 time		
Default Value	0		
C2	Cassette 2 jam counter		
Detail	To count up the number of jam occurrences in the Cassette 2. The counter is advanced even in the case of paper size mismatch or misprint.		
Use Case	When checking the jam counter		
Adj/Set/Operate Method	N/A (Display only)		
Display/Adj/Set Range	0 to 99999999		
Unit	1 time		
Default Value	0		

FEEDER (ADF service mode)



ADJUST (Adjustment mode)

FEEDER (ADF service mode) > ADJUST (Adjustment mode)

DOCST	Adj img lead edge margin: stream, front	
Detail	To adjust the leading edge margin of the image on the front side at stream reading. Execute this item when the output image after ADF installation is displaced. When replacing the Main 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.) The setting is applied to the image on the front side.	
Use Case	- When installing the ADF - When replacing the Main Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.	
Display/Adj/Set Range	-30 to 30	
Unit	0.1 mm	
Default Value	0	
LA-SPEED	Fine adj img ratio:stream,vert scan,frt	
Detail	To make a fine adjustment of the image magnification ratio in vertical scanning direction on the front side at stream reading. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. 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.) The setting is applied to the image on the front side.	
Use Case	- When installing the ADF - When replacing the Main Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.	
Display/Adj/Set Range	-200 to 200	
Unit	0.01%	
Default Value	e 0	
DOCST2	Adj img lead edge margin: stream, back	
Detail	To adjust the leading edge margin of the image on the back side at stream reading. Execute this item when the output image after ADF installation is displaced. When replacing the Main 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.) The setting is applied to the image on the back side.	
Use Case	- When installing the ADF - When replacing the Main Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.	
Display/Adj/Set Range	-30 to 30	
Unit	t 0.1 mm	
Default Value	0	

FEEDER (ADF service mode) > ADJUST (Adjustment mode)

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LA-SPD2	Fine adj img ratio:stream,vert scan,bck
Detail	To make a fine adjustment of the image magnification ratio in vertical scanning direction on the back side at stream reading. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label. 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.) The setting is applied to the image on the back side.
Use Case	- When installing the ADF - When replacing the Main Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
Display/Adj/Set Range	-200 to 200
Unit	0.01%
Default Value	0



FUNCTION (Operation / inspection mode)

FEEDER (ADF service mode) > FUNCTION (Operation / inspection mode)

MTR-ON	Operation check of ADF Motor	
Detail	To start operation check of ADF Motor (M702).	
Use Case	and the second s	
Adj/Set/Operate Method		
	It is driven for approximately 5 seconds and is automatically stopped.	
	2) Press Yes key.	
	The operation check is completed.	
Required Time	5 seconds	
FEED-ON	Operation check of ADF 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 Yes key.	
Related Service Mode	FEEDER> FUNCTION> FEED-CHK	
FEED-CHK	Specify ADF individual feed operation	
Detail	To specify the feed mode for ADF.	
	Feed operation is activated by FEED-ON.	
Use Case	At operation check	
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.	
Display/Adj/Set Range	0 to 1	
	0: 1-sided	
	1: 2-sided	
Default Value	0	
Related Service Mode	FEEDER> FUNCTION> FEED-ON	
Supplement/Memo	In the case of ADF (1-path model), operation is the same when either value is set.	

FAX (FAX service mode)

SSSW (Bit switch registration mode)

SSSW No.	Bit No.	Function		
SW 01		(Switch relating to error and copy)		
	Bit 0	Output of error code for service technician		
	Bit 1	Error memory dump		
SW 02		(Switch relating to settings for network connection condition)		
	Bit 7	Connect the terminal as F network type 2		
SW 03		(Switch relating to echo prevention)		
	Bit 0	TCF EQM check		
	Bit 7	Output 1080Hz before CED		
SW 04		(Switch relating to prevention of communication problems)		
	Bit 1	Frequency check of CI signal		
	Bit 3	Prohibit T.30 node F kept by both parties		
	Bit 4	T.30 node F echo timer		
	Bit 5	Frequency check of CI signal at PBX settings		
	Bit 6	No CNG transmission at the time of manual transmission		
	Bit 7	No CED transmission at the time of manual transmission		
SW 05		(Switch relating to standard functions and DIS signal settings)		
	Bit 2	mm/inch conversion (text/photo mode / photo mode)		
	Bit 3	Prohibition of bit transmission after DIS bit 33		
	Bit 4	Declaration of cut paper		
SW 06	SW 06 (Switch relating to settings for reading condition)			
	Bit 4	Scan width (0: A4, 1: LTR)		
SW 07		Not in use		
SW 08		Not in use		
SW 09		Not in use		
SW 10		Not in use		
SW 11		Not in use		
SW 12		(Switch relating to settings for page timer)		
	Bit 0	Timeout period for 1 page (transmission)		
	Bit 1			
	Bit 2	Timeout period for 1 page (Halftone transmission)		
	Bit 3			
	Bit 4	Timeout period for 1 page (Reception)		
	Bit 5			
014/40	Bit 7	Timeout period for 1 page		
SW 13	Bit 2	Execution of mm/inch conversion when sending the received image		
SW 14	Bit 2	Setting whether to execute inch to mm conversion in horizontal and vertical scanning directions or in vertical scanning direction only		
	Bit 4	Declaration of inch-configuration resolution		
SW 15		Not in use		
SW 16		Not in use		
SW 17	Bit 1	Range of selection of transmission level of modem (0: 8 to 15, 1: 0 to 15)		
SW 18	Bit 0	Detection of carrier disconnection between DCS and TCF		
	Bit 1	Time to wait for carrier disconnection between DCS and TCF		
	Bit 2	Prohibition of communication control for IP network		
	Bit 3	Number of command retransmission (V1.7 or earlier) (0: 3 times, 1: 6 times)		
	Bit 4	Retransmission request of all frames after frame loss at JBIG reception (0: Not requested, 1: Reques-		
		ted)		
SW 19		Not in use		
SW 20		Not in use		

SSSW No.	Bit No.	Function	
SW 21		Not in use	
SW 22	Bit 3	Prohibition of manual polling operation	
SW 23		Not in use	
SW 24		Not in use	
SW 25		(Setting for report display function)	
	Bit 0	Prioritize the received abbreviated name to the dialed abbreviated name	
SW 26		Not in use	
SW 27		Not in use	
SW 28	Bit 0	Prohibit calling party for V8 procedure	
	Bit 1	Prohibit called party from V8 procedure	
	Bit 2	Prohibit calling party from V8 late-start	
	Bit 3	Prohibit called party from V8 late-start	
	Bit 4	Prohibit V.34 called party from starting fallback	
	Bit 5	Prohibit V.34 calling party from starting fallback	
SW 29		Not in use	
SW 30		Not in use	
SW 31		Not in use	
SW 32		Not in use	

MENU (Menu switch registration mode)

No.	Parameter	Selection
05	Not in use	-
06	Telephone line monitor	0 to 3 0: DIAL 1: SERVICE TECHNICIAN 1 2: SERVICE TECHNICIAN 2 3: OFF
07	Transmission level (ATT)	8 to 15
08	Upper limit of V.34 modulation speed	0 to 5 0: 3,429 BAUD 1: 3,200 BAUD 2: 3,000 BAUD 3: 2,800 BAUD 4: 2,743 BAUD 5: 2,400 BAUD
09	Upper limit of V.34 data speed	0 to 13 0: 33.6 kbps 1: 31.2 kbps 2: 28.8 kbps 3: 26.4 kbps 4: 24.0 kbps 5: 21.6 kbps 6: 19.2 kbps 7: 16.8 kbps 8: 14.4 kbps 9: 12.0 kbps 10: 9.6 kbps 11: 7.2 kbps 12: 4.8 kbps 13: 2.4 kbps
10	OFF Hook signal frequency	0 to 2 0: 50 Hz 1: 25 Hz 2: 17 Hz

NUM (Numeric parameter setting mode)

No.	Parameter	Allowable setting range
002	RTN transmission criteria X	1 to 99 %
003	RTN transmission criteria n	2 to 99 times
004	RTN transmission criteria m	1 to 99 lines
005	NCC pause (before ID code)	1 to 60 sec
006	NCC pause (after ID code)	1 to 60 sec
008	STORED_DIAL_MODE wait timer	0 to 65 sec
010	T.30 T0 timer	0 to 9,999 (55 sec principally: 5,500)
011	T.30 T1 timer (for incoming transmission)	0 to 9,999 (France: 3,500, Others: 3,000)
012	Maximum incoming lines	0 to 65,535 lines (0: without limitation)
013	T.30 EOL timer	500 to 3,000 (default 13 sec: 1,300)
015	Threshold between hokking nad on-hook	0 to 999
016	Lead time to the first response when switching between FAX and TEL	0 to 9
017	Duration to activate pseudo-RBT cadence	0 to 999
018	Duration to deactivate pseudo-RBT cadence (short)	0 to 999
019	Duration to deactivate pseudo-RBT cadence (long)	0 to 999
020	Duration to activate pseudo-ring cadence	0 to 999
021	Duration to deactivate OFF Hook cadence (short)	0 to 999
022	Duration to deactivate OFF Hook cadence (long)	0 to 999
023	Not in use	-
024	Not in use	-
025	CNG monitor duration while the answering device is activated	0 to 999
026	Not in use	-
027	Not in use	-
029	Off-hook PCB duty settings (For NAC, setting can be made with SPL71100 in special management mode.)	1 to 99
049	NSX MODEL ID	0 to 4,095
051	Threshold to detect hook	0 to 9,999
053	Set DTMF calling counts when receiving FAX remotely	0 to 9,999 (default: 2)
054	Not in use	-

NCU (NCU parameter setting mode)

■ TONE

Parameter No.	Function	Setting range
001	Tone signal sending time (PSTN)	10 to 9,999 msec
002	Minimum pause time (PSTN)	10 to 9,999 msec

■ PULSE

Item/Parameter No.	Function	Setting range
FORM		0: DP (N) 1: DP (N+1) 2: DP (10-N)
001	Not in use	

Item/Parameter No.	Function	Setting range
002	Not in use	
003	Pulse dial make ratio	10 to 90 %
004	Minimum pause time	10 to 9,999 msec

■ DIALTONE

Bit Switch

Bit No.	Function	1	0
Bit 0	-	-	-
Bit 1	Cadence pattern check	Not detected	Detected
Bit 2	Signal frequency	Changed	Not changed
Bit 3	-	-	-
Bit 4	Judgment of intermittent signal	start from valid ON signal	start from either valid ON sig- nal or OFF signal
Bit 5	-	-	-
Bit 6	Signal form	Continuous	Intermittent
Bit 7	Signal detection	Detected	Not detected

Numeric value parameter

Parameter No.	Function	Setting range
001	T0 timer	0 to 9,999 (x 10 msec)
002	T1 timer	0 to 9,999 (x 10 msec)
003	T2 timer	0 to 9,999 (x 10 msec)
004	T3 timer	0 to 9,999 (x 10 msec)
005	T4 timer	0 to 9,999 (x 10 msec)
006	Signal detection table	0 to 16
007	Signal detection level	0 to 7
008	Number of signal frequency	0 to 9,999

■ 2ND DLTN (2nd DIAL TONE)

Not in use

■ BUSTONE0 (BUSY TONE 0)

Bit Switch

Bit No.	Function	1	0
Bit 0	-	-	-
Bit 1	-	-	-
Bit 2	-	-	-
Bit 3	-	-	-
Bit 4	-	-	-
Bit 5	-	-	-
Bit 6	-	-	-
Bit 7	Signal detection	Detected	Not detected

Numeric value parameter

Not in use

■ BUSTONE1 (BUSY TONE 1)

Bit Switch

Bit No.	Function	1	0
Bit 0	-	-	-
Bit 1	-	-	-
Bit 2	-	-	-
Bit 3	-	-	-
Bit 4	-	-	-
Bit 5	-	-	-
Bit 6	-	-	-
Bit 7	Signal detection	Detected	Not detected

Numeric value parameter

Parameter No.	Function	Setting range
001	-	-
002	T1 timer	0 to 9,999 (x 10 msec)
003	T2 timer	0 to 9,999 (x 10 msec)
004	T3 timer	0 to 9,999 (x 10 msec)
005	T4 timer	0 to 9,999 (x 10 msec)
006	Signal detection table	0 to 16
007	Signal detection level	0 to 7
008	Number of signal frequency	0 to 9,999

■ REORDRTN (REORDER TONE)

Bit Switch

Bit No.	Function	1	0
Bit 0	-	-	-
Bit 1	-	-	-
Bit 2	-	-	-
Bit 3	-	-	-
Bit 4	-	-	-
Bit 5	-	-	-
Bit 6	-	-	-
Bit 7	Signal detection	Detected	Not detected

Numeric value parameter

Parameter No.	Function	Setting range
001	-	-
002	T1 timer	0 to 9,999 (x 10 msec)
003	T2 timer	0 to 9,999 (x 10 msec)
004	T3 timer	0 to 9,999 (x 10 msec)
005	T4 timer	0 to 9,999 (x 10 msec)
006	Signal detection table	0 to 21
007	Signal detection level	0 to 7
008	Number of signal frequency	0 to 9,999

AUTO RX

Numeric value parameter

Parameter No.	Function	Setting range
001	CI ON time	0 to 9,999 (x 10 msec)
002	CI LONG ON time	0 to 9,999 (x 10 msec)
003	CI OFF time	0 to 9,999 (x 10 msec)
004	CI LONG OFF time	0 to 9,999 (x 10 msec)
005	CI MAX OFF time	0 to 9,999 (x 10 msec)
006	CI WAIT time	0 to 9,999 (x 10 msec)
007	CI frequency	0 to 9,999 cycle
008	CI frequency lower limit	0 to 9,999 Hz
009	CI frequency upper limit	0 to 9,999 Hz

■ CNGDTCT (CNG DETECT)

Numeric value parameter

Parameter No.		Description	Setting range
001	At F/T switching	CNG MIN ON time	0 to 9,999 (x 10 msec)
002		CNG MAX ON time	0 to 9,999 (x 10 msec)
006		-	-
007	9	CNG MIN ON time	0 to 9,999 (x 10 msec)
008	swering phone	CNG MAX ON time	0 to 9,999 (x 10 msec)
009		Tolerable time of instantaneous interruption	0 to 9,999 (x 10 msec)
011		Number of detection	0 to 9,999 times
012		Hit ratio	0 to 9,999 %

■ SPECIALB

Not in use

■ SPECIALN

Not in use

■ RKEY

Numeric value parameter

Parameter No.	Function	Setting range
001	Connection time of flash	0 to 9,999 (x 10 msec)
002	Connection time of grounding wire	0 to 9,999 (x 10 msec)

■ PBXDIALT (PBX DIAL TONE)

Not in use

■ PBXBUSYT (PBX BUSY TONE)

Not in use

TESTMODE (Service mode for test print, operation check, etc.)



PRINT (Print test mode)

TESTMODE (Service mode for test print, operation check, etc.) > PRINT (Print test mode)

PG-TYPE	Setting of PG number	
Detail	To set the PG number of the test print.	
Use Case	At trouble analysis	
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.	
•	0 to 7	
Display/Adj/Set Range	0: Grid Pattern	
	1: Halftone Pattern	
	2: Black Pattern	
	3: White Pattern	
	4: Gradation17 Pattern	
	5: ThinHorizontalLine Pattern 6 to 7: For R&D use	
Defectively also		
Default Value	0	
COUNT	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 Apply key.	
Display/Adj/Set Range	1 to 99	
Unit	1 sheet	
Default Value	1	
PHASE	Set 1-sided/2-sided print for PG output	
Detail	To set 1-sided/2-sided print for PG output.	
	Even if 1 is set for a machine supporting 1-sided print, the setting is disabled.	
Use Case	At trouble analysis	
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.	
Display/Adj/Set Range	0 to 1	
	0: 1-sided	
	1: 2-sided	
Default Value	0	
MODE	Setting of test print image formation method	
Detail	To set the image formation method for the test print. If PG-TYPE is 0 or 1, this setting is disabled because a specific image formation method is applied.	
Use Case	At trouble analysis	
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.	
Display/Adj/Set Range	0 to 4	
	0: TBIC	
	1: Resolution Dither	
	2: Gradation Dither	
	3: Tone Dither 4: Hi Resolution Dither	
Default Value	0	
Related Service Mode	TESTMODE> PRINT> PG-TYPE	
Meiated Del VICE IVIDUE	ILOTWODE ITMITE I OTHE	

TESTMODE (Service mode for test print, operation check, etc.) > PRINT (Print test mode)

LOTIMODE (Service IIIode I	or test print, operation check, etc.) > FKINT (FILL test mode)
THRU	Setting of image correction table at test print
Detail	To set the image correction table that is used at the time of test print output. When 0 is set, normal gamma LUT is used so that the density characteristics by the density correction process can be checked. When 1 is set, linear gamma LUT is used so that the density characteristics of this machine can be checked.
Use Case	At trouble analysis
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 1 0: Normal gamma LUT 1: Through (linear) gamma LUT
Default Value	0
Supplement/Memo	Gamma LUT: Density gradation characteristic table
DENS	Adjustment of test print density
Detail	To adjust the density of the test print. As the value is larger, the image gets darker.
Use Case	At trouble analysis
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
Display/Adj/Set Range	-4 to 4
Default Value	0
MABK	Setting of toner thinning process at test print
Detail	To set the toner thinning process at test print. As the value is larger, toner scattering is reduced.
Use Case	When toner scattering occurs at test print
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 4 0: OFF, 1: Mode 1, 2: Mode 2, 3: Mode 3, 4: Mode 4
Default Value	0
FEED	Setting of paper source at test print
Detail	To set the paper source at the time of test print output. If this mode is set when there is no Cassette 2 (option Pickup Cassette), the output is made from Cassette 1 (standard Pickup Cassette).
Use Case	At trouble analysis
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Caution	In case of using the Multi-purpose Tray, be sure to place paper on the tray before executing this item.
Display/Adj/Set Range	0 to 4 0: Multi-purpose Tray 1: Cassette 1 2: Cassette 2 3: Cassette 3 4: Cassette 4
Default Value	1
START	Output of test print
Detail	To output a test print with the PG pattern set in PG-TYPE, MODE, etc.
Use Case	At trouble analysis
Adj/Set/Operate Method	Select the item, and then press Yes key.
Related Service Mode	TESTMODE> PRINT
. winted out the mode	120.11052 11001



■ MODEM

TESTMODE (Service mode for test print, operation check, etc.) > FAX (FAX test mode) > MODEM

RELAY-1	NCU relay test 1	
Detail	To test ON/OFF of relay and port switch of NCU.	
	This mode is disabled for an NCU with no relay and port switch.	
Use Case	When analyzing the cause of a problem	
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.	
Caution	Be sure to set the value back to 0 after the test.	
Display/Adj/Set Range	0 to 6	
	0: All OFF	
	1: CML ON/OFF	
	2: P ON/OFF	
	3: S ON/OFF	
	4: H ON/OFF	
	5: HD ON/OFF	
	6: R ON/OFF	
Default Value	0	
Related Service Mode	TESTMODE > FAX > MODEM > RELAY-2	
RELAY-2	NCU relay test 2	
Detail	To test ON/OFF of relay and port switch of NCU. This mode is disabled for an NCU with no relay and port switch.	
Detail Use Case		
	This mode is disabled for an NCU with no relay and port switch.	
Use Case	This mode is disabled for an NCU with no relay and port switch. When analyzing the cause of a problem	
Use Case Adj/Set/Operate Method	This mode is disabled for an NCU with no relay and port switch. When analyzing the cause of a problem Enter the setting value, and then press Apply key.	
Use Case Adj/Set/Operate Method Caution	This mode is disabled for an NCU with no relay and port switch. When analyzing the cause of a problem Enter the setting value, and then press Apply key. Be sure to set the value back to 0 after the test.	
Use Case Adj/Set/Operate Method Caution	This mode is disabled for an NCU with no relay and port switch. When analyzing the cause of a problem Enter the setting value, and then press Apply key. Be sure to set the value back to 0 after the test. 0 to 7	
Use Case Adj/Set/Operate Method Caution	This mode is disabled for an NCU with no relay and port switch. When analyzing the cause of a problem Enter the setting value, and then press Apply key. Be sure to set the value back to 0 after the test. 0 to 7 0: All OFF	
Use Case Adj/Set/Operate Method Caution	This mode is disabled for an NCU with no relay and port switch. When analyzing the cause of a problem Enter the setting value, and then press Apply key. Be sure to set the value back to 0 after the test. 0 to 7 0: All OFF 1: CIST2 ON/OFF 2: C1 ON/OFF 3: NORG ON/OFF	
Use Case Adj/Set/Operate Method Caution	This mode is disabled for an NCU with no relay and port switch. When analyzing the cause of a problem Enter the setting value, and then press Apply key. Be sure to set the value back to 0 after the test. 0 to 7 0: All OFF 1: CIST2 ON/OFF 2: C1 ON/OFF	
Use Case Adj/Set/Operate Method Caution	This mode is disabled for an NCU with no relay and port switch. When analyzing the cause of a problem Enter the setting value, and then press Apply key. Be sure to set the value back to 0 after the test. 0 to 7 0: All OFF 1: CIST2 ON/OFF 2: C1 ON/OFF 3: NORG ON/OFF 4: DCSEL ON/OFF 5: DCLIM ON/OFF	
Use Case Adj/Set/Operate Method Caution	This mode is disabled for an NCU with no relay and port switch. When analyzing the cause of a problem Enter the setting value, and then press Apply key. Be sure to set the value back to 0 after the test. 0 to 7 0: All OFF 1: CIST2 ON/OFF 2: C1 ON/OFF 3: NORG ON/OFF 4: DCSEL ON/OFF 5: DCLIM ON/OFF 6: IPSEL1 ON/OFF	
Use Case Adj/Set/Operate Method Caution	This mode is disabled for an NCU with no relay and port switch. When analyzing the cause of a problem Enter the setting value, and then press Apply key. Be sure to set the value back to 0 after the test. 0 to 7 0: All OFF 1: CIST2 ON/OFF 2: C1 ON/OFF 3: NORG ON/OFF 4: DCSEL ON/OFF 5: DCLIM ON/OFF	
Use Case Adj/Set/Operate Method Caution	This mode is disabled for an NCU with no relay and port switch. When analyzing the cause of a problem Enter the setting value, and then press Apply key. Be sure to set the value back to 0 after the test. 0 to 7 0: All OFF 1: CIST2 ON/OFF 2: C1 ON/OFF 3: NORG ON/OFF 4: DCSEL ON/OFF 5: DCLIM ON/OFF 6: IPSEL1 ON/OFF	

TESTMODE (Service mode for test print, operation check, etc.) > FAX (FAX test mode) > MODEM

FREQ	Frequency test
Detail	To test whether the specified frequency is oscillated. By closing or opening the DC circuit in accordance with the setting value, the specified frequency is oscillated by the tone transmission function of the modem. Check this with the speaker.
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Caution	Be sure to set the value back to 0 after the test.
Display/Adj/Set Range	0 to 7 0: OFF 1: 462 Hz 2: 1100 Hz 3: 1300 Hz 4: 1500 Hz 5: 1650 Hz 6: 1850 Hz 7: 2100 Hz
Default Value	0
G3TX	G3 signal transmission test
Detail	To test whether the specified G3 signal is transmitted. By closing or opening the DC circuit in accordance with the setting value, the specific G3 signal pattern is transmitted at the specified transmission speed by the G3 signal transmission function of the modem. Check this with the speaker.
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Caution	Be sure to set the value back to 0 after the test.
Display/Adj/Set Range	0 to 9 0: OFF 1: 300 bps 2: 2400 bps 3: 4800 bps 4: 7200 bps 5: 9600 bps 6: TC7200 bps 7: TC9600 bps 8: 12000 bps 9: 14400 bps
Default Value	0

TESTMODE (Service mode for test print, operation check, etc.) > FAX (FAX test mode) > MODEM

DTMFTX	DTMF transmission test
Detail	To test whether the specified DTMF signal is transmitted. By closing or opening the DC circuit in accordance with the setting value, the specified DTMF signal is transmitted by the DTMF transmission function of the modem. Check this with the speaker.
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Caution	Be sure to set the value back to 0 after the test.
Display/Adj/Set Range	0 to 12 0: OFF
	1: 1
	2: 2
	3: 3
	4: 4
	5: 5
	6: 6
	7: 7
	8: 8
	9: 9
	10: 0
	11: *
	12: #
Default Value	0
Supplement/Memo	DTMF (Dual Tone Multi Frequency): Signal method combining two specific frequencies like a pushtone phone.

TESTMODE (Service mode for test print, operation check, etc.) > FAX (FAX test mode) > MODEM

`	to test print, operation check, etc.) > 1 AX (1 AX test mode) > 100DEM
V34G3TX	V.34 G3 signal transmission test
Detail	To test whether the specified V.34 G3 signal is transmitted. By closing or opening the DC circuit in accordance with the setting value, the specific G3 signal pattern is transmitted at the specified transmission speed and modulation speed by the G3 signal transmission function (V.34) of the modem. Check this with the speaker. A setting value other than 0 is indicated as a 3-digit integer (1st digit: modulation speed, last 2 digits: transmission speed). A value other than the specified numerical value is invalid.
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Caution	Be sure to set the value back to 0 after the test.
Display/Adj/Set Range	0 to 614 0: OFF • First digit (Modulation speed/baud rate) 1: 2400 baud 2: 2743 baud 3: 2800 baud 4: 3000 baud 5: 3200 baud 6: 3429 baud • Last 2 digits (Transmission speed) 01: 2400 bps 02: 4800 bps 03: 7200 bps 04: 9600 bps 05: 12000 bps 06: 14400 bps 07: 16800 bps 07: 16800 bps 09: 21600 bps 10: 24000 bps 11: 26400 bps 11: 26400 bps 12: 28800 bps 13: 31200 bps 14: 33600 bps

■ FACULTY

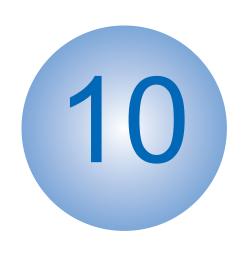
Default Value 0

 ${\sf TESTMODE} \ ({\sf Service} \ {\sf mode} \ {\sf for} \ {\sf test} \ {\sf print}, \ {\sf operation} \ {\sf check}, \ {\sf etc.}) > {\sf FAX} \ ({\sf FAX} \ {\sf test} \ {\sf mode}) > {\sf FACULTY}$

G34800TX	G3 4800 bps signal transmission test
Detail	To test whether the G3 signal is transmitted at 4800 bps. By closing or opening the DC circuit, the specific G3 signal pattern is transmitted at 4800 bps by the G3 signal transmission function. Check this with the speaker.
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Caution	Be sure to set the value back to 0 after the test.
Display/Adj/Set Range	0 to 1
	0: OFF
	1: ON
Default Value	

TESTMODE (Service mode for test print, operation check, etc.) > FAX (FAX test mode) > FACULTY

·	Bis 14 4 4
DETECT1	Ring detection
Detail	To check the ON/OFF state of CI, FC, and hook from the line. The detection results are displayed on the console (UART).
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Caution	Be sure to set the value back to 0 after the test.
Display/Adj/Set Range	0 to 1 0: OFF 1: ON
Default Value	0
Supplement/Memo	CI (Calling Identification): Ring signal UART (Universal Asynchronous Receiver Transmitter): Console
DETECT2	Calling tone detection test 1
Detail	To check calling tone signal and FED. Set the CML relay to ON and detect the calling tone. The detection results are displayed on the console (UART).
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Caution	Be sure to set the value back to 0 after the test.
Display/Adj/Set Range	0 to 1 0: OFF 1: ON
Default Value	0
Supplement/Memo	CML (Connect Modem to Line) relay: Relay installed at the NCU (Network Control Unit) Board to switch between the telephone and fax.
DETECT3	Calling tone detection test 2
Detail	To check calling tone signal and FED. Set the CML relay to OFF and detect the calling tone. The detection results are displayed on the console (UART).
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Caution	Be sure to set the value back to 0 after the test.
Display/Adj/Set Range	0 to 1 0: OFF 1: ON
Default Value	0
Supplement/Memo	CML (Connect Modem to Line) relay: Relay installed at the NCU (Network Control Unit) Board to switch between the telephone and fax.



Installation

MiCARD Attachment Kit-B1	299
Copy Card Reader-F1	308
Copy Control Interface Kit-C1	323

MiCARD Attachment Kit-B1



Points to Note at Installation

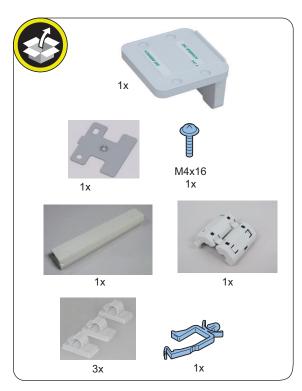
Prepare a Card Reader (sales company's option) in advance. Although the shape of the Card Reader may differ, the installation procedure is the same. Use the long-type Card Reader Cable.

The following options cannot be used in combination with this equipment.

- · Copy Card Reader
- · Copy Control Interface Kit



Checking the Contents

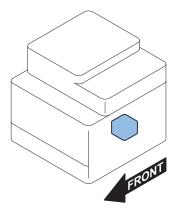


Check Item When Turning OFF the Main Power

Check that the main power of the host machine is OFF.

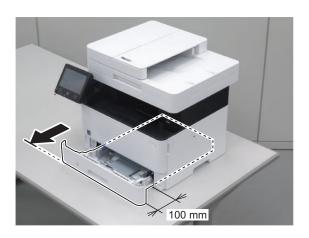
- 1. Turn OFF the main power switch of the host machine.
- Check that the display in the Control Panel and the lamp of the main power are turned off, and then disconnect the power plug.

Installation Outline Drawing



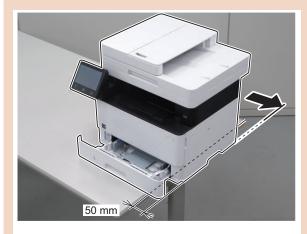
Installation Procedure





CAUTION:

When removing the cover, moving the product 50 mm or more while the cassette is pulled out will disturb the balance of the product and may cause it to fall down; therefore, do not completely pull out the cassette.



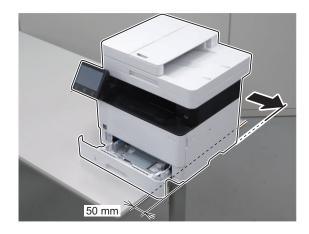


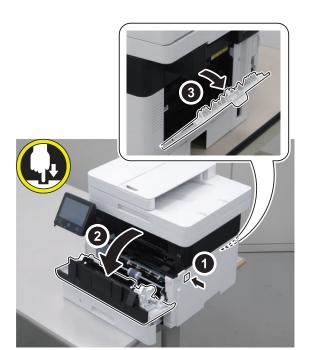
7

CAUTION:

If it is moved too much when removing the Cover, pressure will be applied to the Cassette Rear Cover and the cover may be damaged.



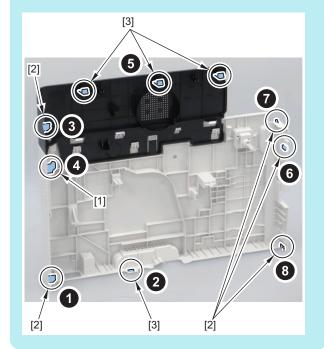


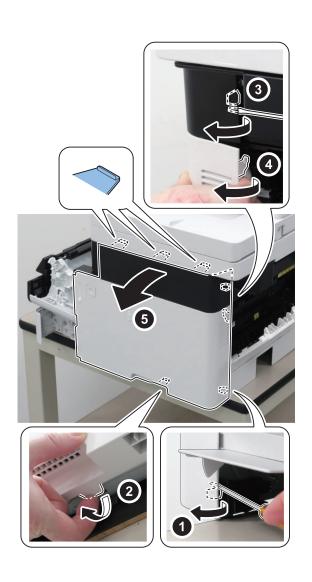


□ **4.**

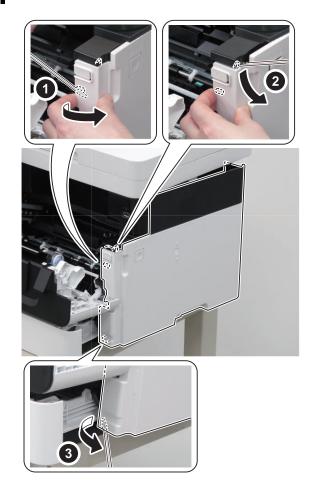
NOTE:

The positions and removal order of the hook [1], protrusions [2] and claws [3] of the Right Cover are shown below.





□ **5.**

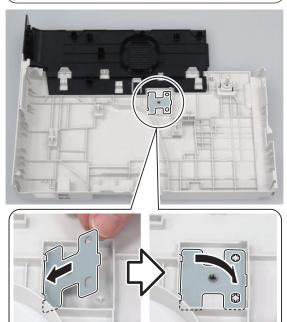


□ **6.**

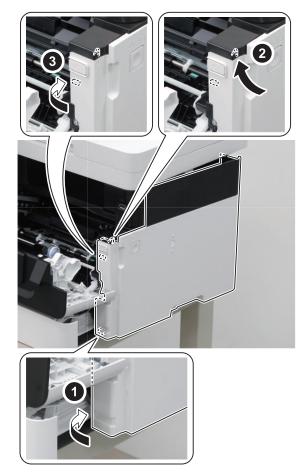


□ **7.**



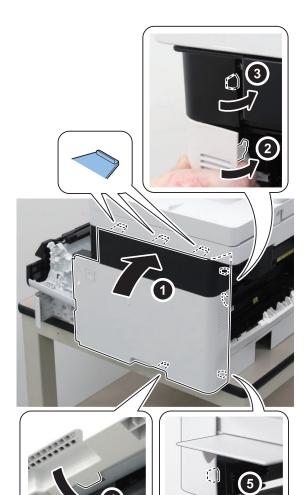


□ **9.**



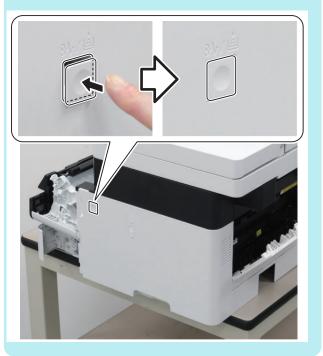
□ **8.**



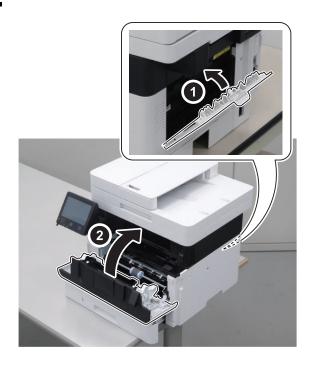


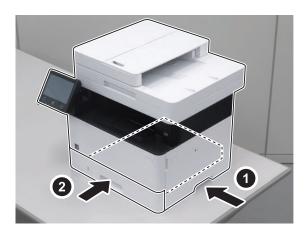
NOTE:

Be sure to push in the Cartridge Door Button if it is not installed properly.



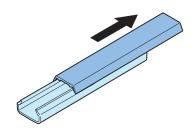
11<u>.</u>





4.



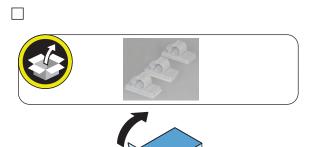


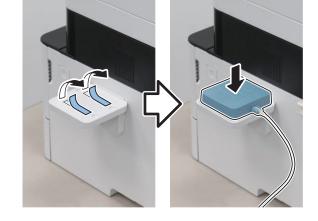
13.





18.





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⁻ 19.









- **21.** Connect the power plug to the outlet.
- 22. Turn ON the main power switch.

Copy Card Reader-F1



Points to Note at Installation

The Copy Card Reader Attachment is required for the installation of the equipment.

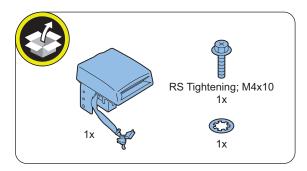
The following options cannot be used in combination with this equipment

- MiCARD Attachment Kit + IC-Card Reader that is a sales company's option
- · Copy Control Interface Kit

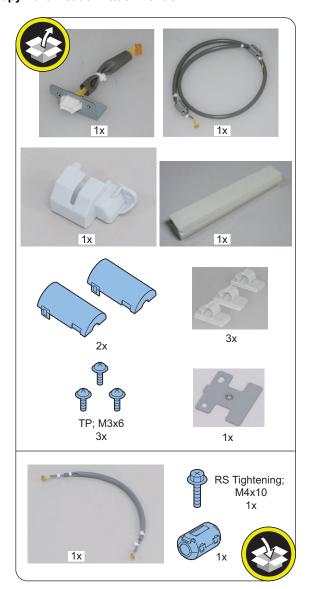


Checking the Contents

<Copy Card Reader-F1>



<Copy Card Reader Attachment-J1>

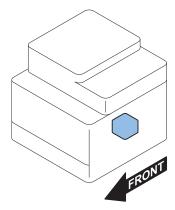


Check Item When Turning OFF the Main Power

Check that the main power of the host machine is OFF.

- 1. Turn OFF the main power switch of the host machine.
- Check that the display in the Control Panel and the lamp of the main power are turned off, and then disconnect the power plug.

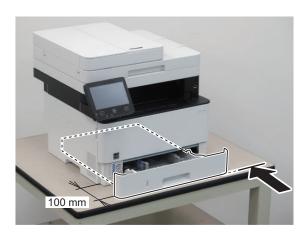
Installation Outline Drawing



Installation Procedure

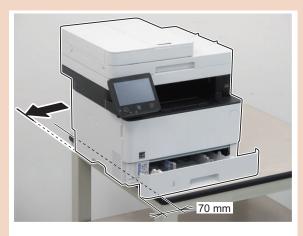


2.



CAUTION:

Moving the product 70 mm or more while the cassette is pulled out will disturb the balance of the product and may cause it to fall down; therefore, do not completely pull out the cassette.

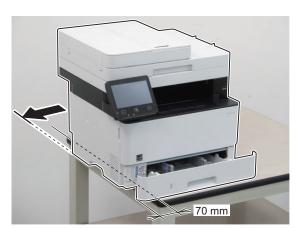




CAUTION:

If it is moved too much when removing the Cover, pressure will be applied to the Cassette Rear Cover and the cover may be



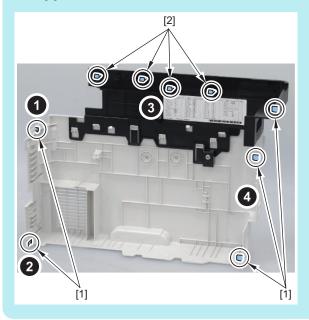


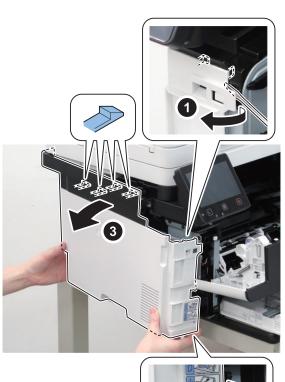


□ **5.**

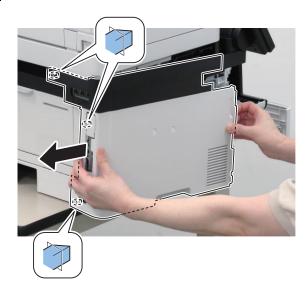
NOTE:

The positions and removal order of the protrusions [1] and claws [2] of the Left Cover are shown below.





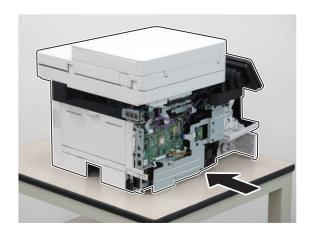
□ **6.**



□ **7.**

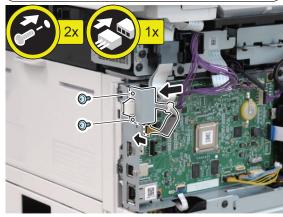
CAUTION:

Shift the host machine back to the center of the working table to prevent it from falling down.

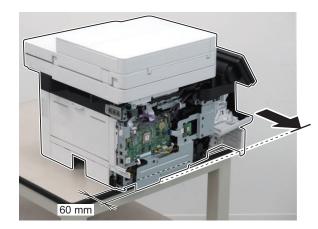


□ **8.**





1**0**.

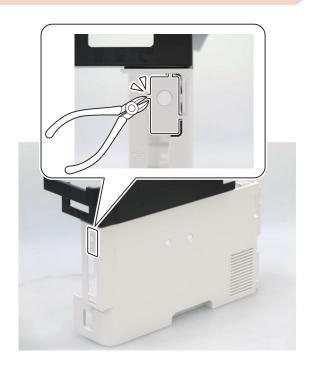


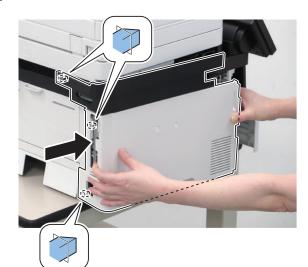
11.

□ **9.**

CAUTION:

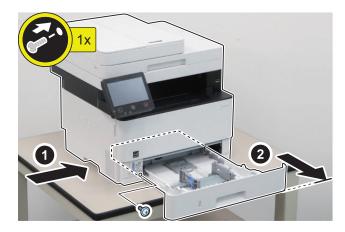
When cutting off the part, be sure not to make burrs.



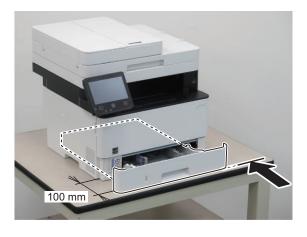








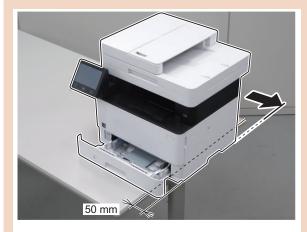
1**5**.





CAUTION:

When removing the cover, moving the product 50 mm or more while the cassette is pulled out will disturb the balance of the product and may cause it to fall down; therefore, do not completely pull out the cassette.



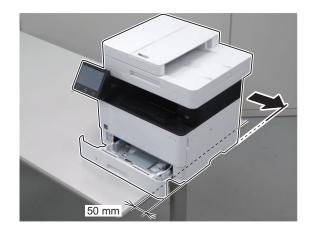


1**6**.

CAUTION:

If it is moved too much when removing the Cover, pressure will be applied to the Cassette Rear Cover and the cover may be damaged.



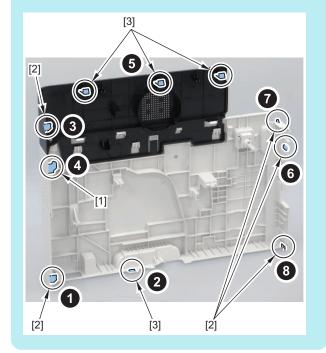


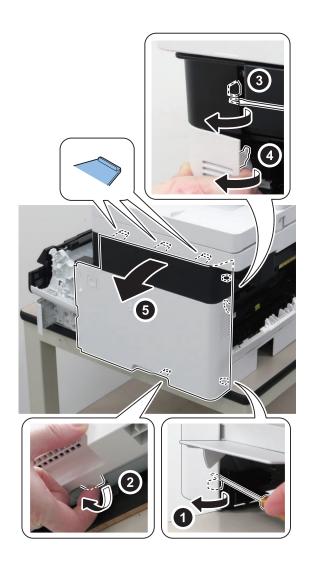


18.

NOTE:

The positions and removal order of the hook [1], protrusions [2] and claws [3] of the Right Cover are shown below.



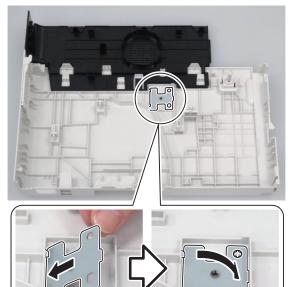


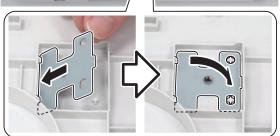




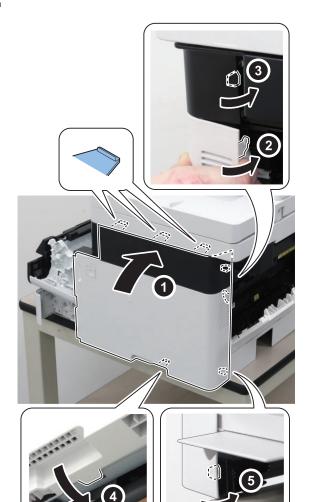






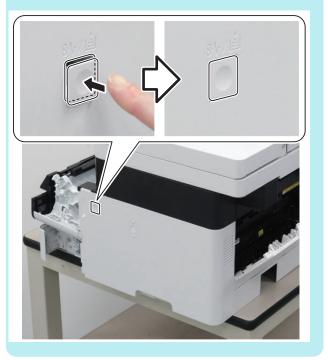


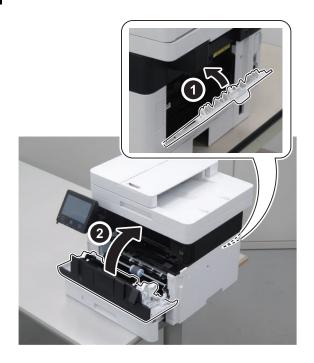


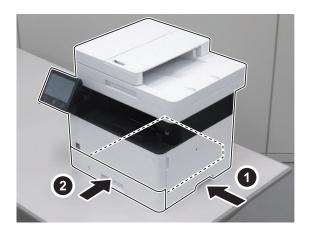


NOTE:

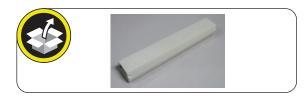
Be sure to push in the Cartridge Door Button if it is not installed properly.

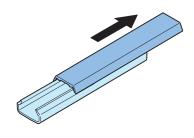






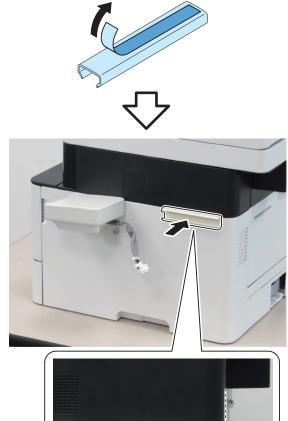
28.

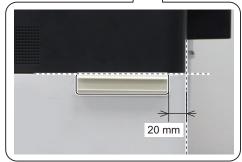




27.













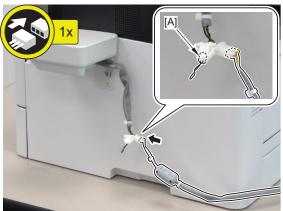


31.

CAUTION:

Do not disconnect the short connector [A].

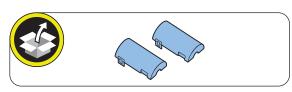


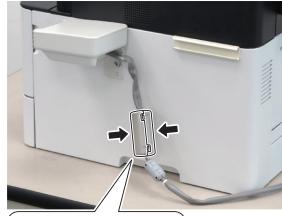


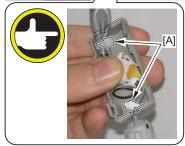
3**2.**

CAUTION:

- When installing the Connector Case, be sure to place the 2 Harness Bands [A] inside of the Connector Case.
- Do not let the cable trapped.





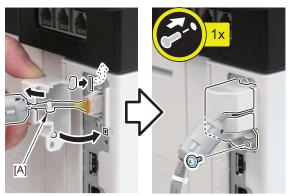




CAUTION:

When installing the Connector Cover, be sure to place the Harness Band [A] inside of the Connector Cover.





3**5.**



- $36_{\,\blacksquare\,}$ Connect the power plug to the outlet.
- $\bf 37$. Turn ON the main power switch.



Setting after Installation

Configure the card management information settings in service mode.

1. Enter the lowest card number of the card to be used.

Enter the smallest card number to be used by the user.

- COPIER > FUNCTION > INSTALL > CARD-NUM
- 2. Sequential numbers beginning from the specified number are automatically registered.

Starting from the card number set in CARD-NUM, 300 cards can be used.

- COPIER > FUNCTION > INSTALL > CARD > Yes
- 3. Select ON for the Department ID Management.

[Menu] > [Management Settings] > [User Management] > [Department ID Management] > [ON]

NOTE:

System Manager Login

- 1. Enter the System Manager ID: 7654321. (Default
- 2. Enter the PIN: 7654321. (Default value)
- 3. Press Login.
- 4. Turn OFF and then ON the main power switch to enable the settings.
- 5. Check that a message " Insert the card. " appears.

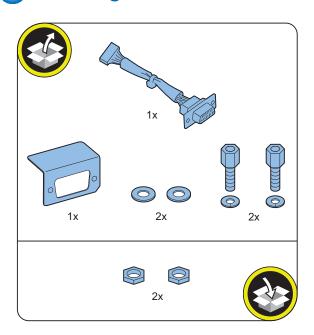
Copy Control Interface Kit-C1

Points to Note at Installation

The following options cannot be used in combination with this equipment.

- · Copy Card Reader
- MiCARD Attachment Kit + IC-Card Reader that is a sales company's option

Checking the Contents

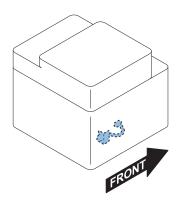


Check Item When Turning OFF the Main Power

Check that the main power of the host machine is OFF.

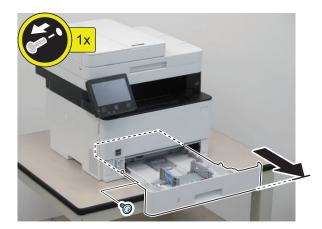
- 1. Turn OFF the main power switch of the host machine.
- 2. Check that the display in the Control Panel and the lamp of the main power are turned off, and then disconnect the power plug.

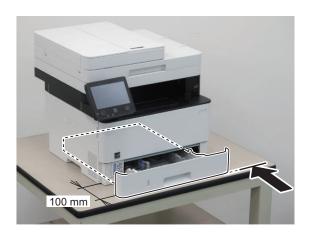
Installation Outline Drawing



Installation Procedure

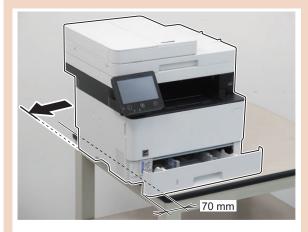
1.





CAUTION:

Moving the product 70 mm or more while the cassette is pulled out will disturb the balance of the product and may cause it to fall down; therefore, do not completely pull out the cassette.



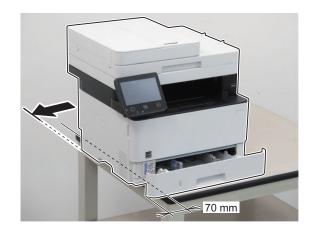


3.

CAUTION:

If it is moved too much when removing the Cover, pressure will be applied to the Cassette Rear Cover and the cover may be damaged.



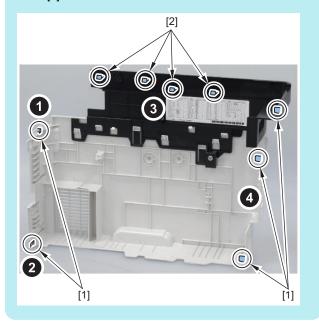


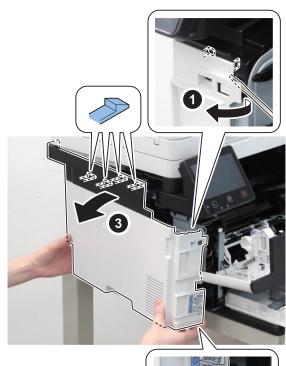


□ **5.**

NOTE:

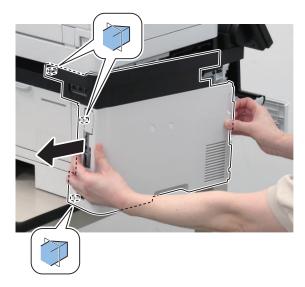
The positions and removal order of the protrusions [1] and claws [2] of the Left Cover are shown below.







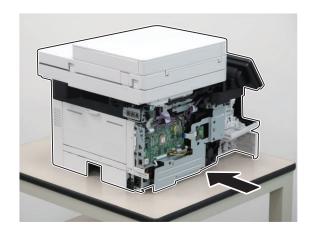
□ **6.**



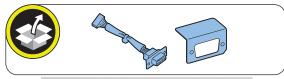
7.

CAUTION:

Shift the host machine back to the center of the working table to prevent it from falling down.



□ **8.**

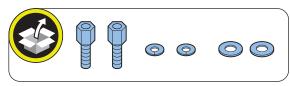


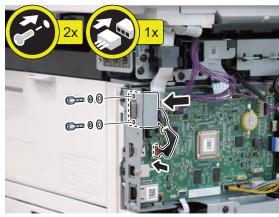


9.

NOTE:

Be sure to tighten the hexagon screws with needlenose pliers.



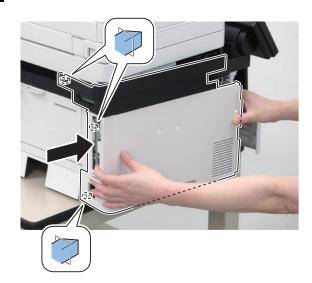


CAUTION:

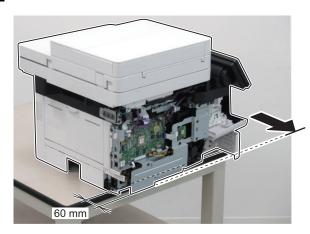
When cutting off the part, be sure not to make burrs.

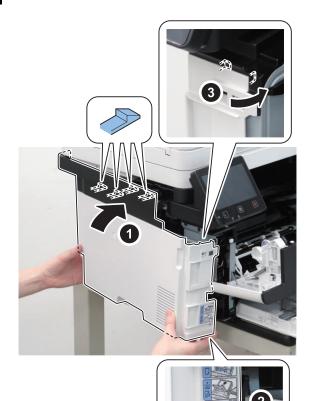


1**2.**



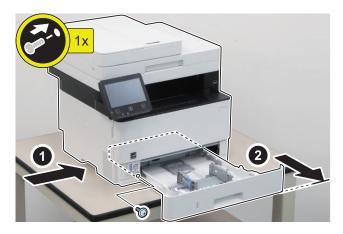
13.





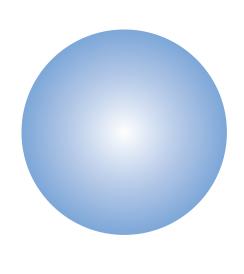


1**5**.





- 17. Connect the power plug to the outlet.
- 18. Turn ON the main power switch.



APPENDICES

Service Tools	330
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Service Tools



Special Tools

In addition to the standard tools set, the following special tools are required when servicing the machine:

Name of Tool	Parts.No	Use
Digital Multimeter	FY9-2002	Used as a probe extension when making electrical checks.

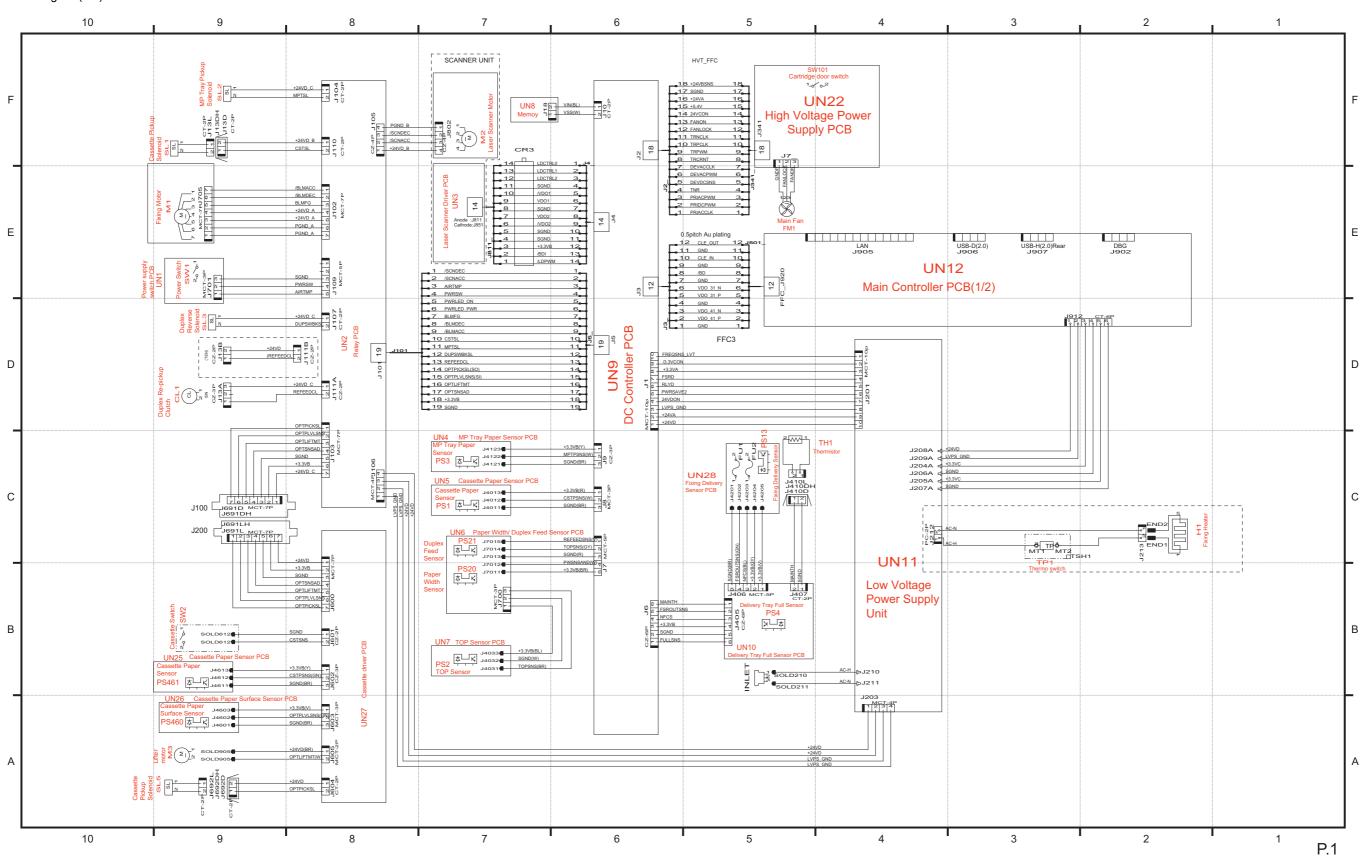


Solvents and Oil List

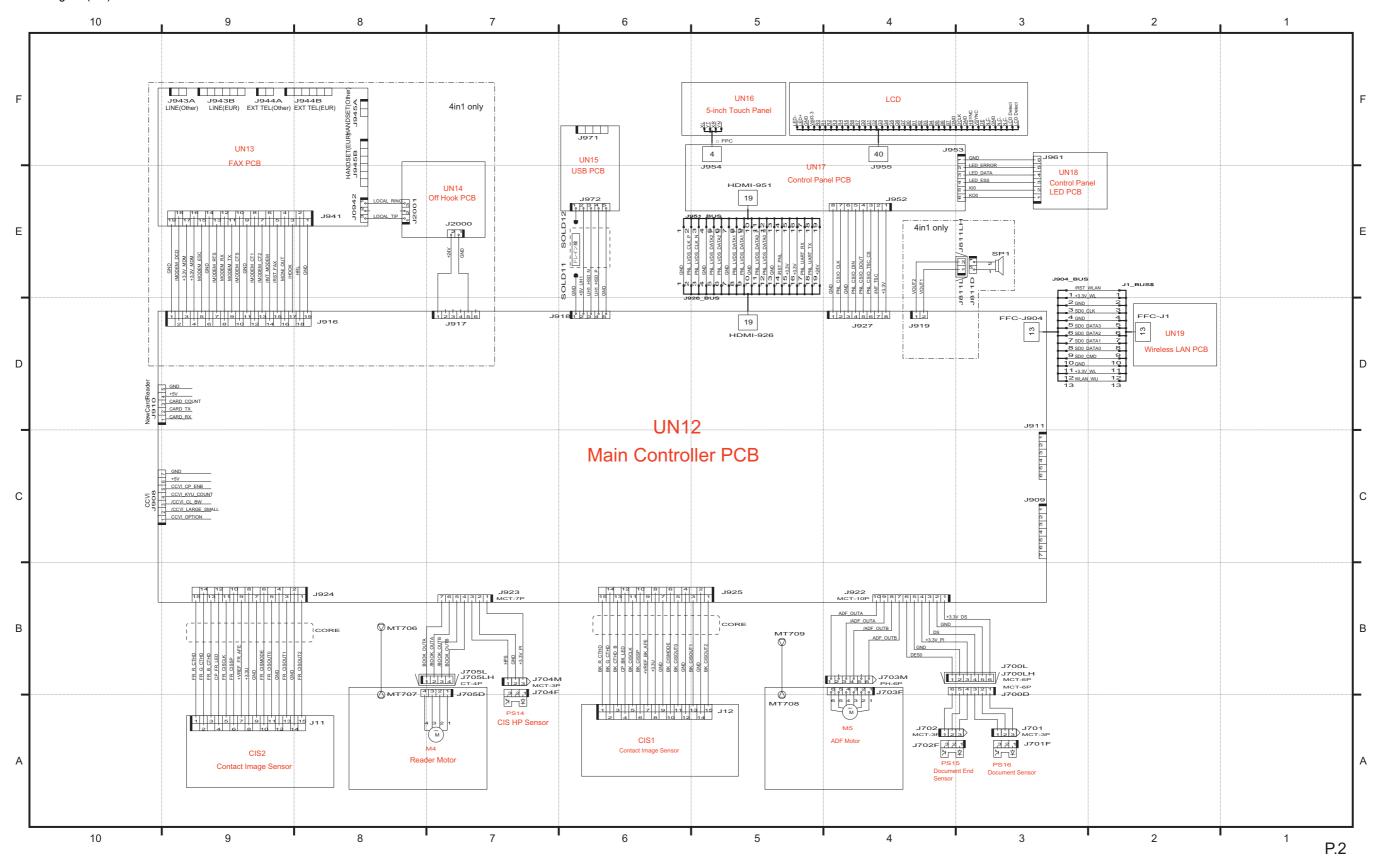
No.	Туре	Purpose	Remark
1	Ethyl alcohol	Cleaning:	Purchase locally
		metal part, oil stains, toner stains	Keep away from flame

General Circuit Diagram

General Circuit Diagram(1/2)



General Circuit Diagram(2/2)



Backup Data List

												Delete														
		Rep	lace			M	enu > Syste	em Manage	ment Settir	ngs					Service l	Mode > CO	PIER > FU	NCTION >			Ва	ackup by U	ser	Вас	kup by Ser	vice
Data	Location			Initialize	Initializ-	Initializ-			Menu	Clear						CLEAR				SPLMAN						
		Engine Control- ler PCB	Main Control- Ier PCB	All Data / Settings	ing Key and Cer- tificate	ing Ad- dress Book	Preferen- ces	Function Settings	Set Desti- nation	Manage- ment Set- tings	Network Settings	Clear All	R-CON *1	"SRVC- DAT*2"	COUN- TER	HIST *3	ALL	PLPW- CLR	DC-CON	SPL4381 0	Yes/No	Method	Location to be stored	Yes/No	Method	Location to be stored
Address Book	Main Control- ler PCB	-	Clear	Clear	-	Clear	-	-	-	-		-	-	-	-	-	Clear	-	-	-	Yes	Remote UI *6 LUI *7	PC, USB memory	No	-	-
Settings N	Menu	'			<u> </u>	•	'	'	'	'		•	'	<u> </u>		'	•		'	'	·	'	'	'		
Preferen- ces	Main Control- ler PCB	-	Clear	Clear	-	-	Clear*9	-	-	-	Clear*10	Clear	-	-	-	-	Clear	-	-	-	Yes	Remote UI *6 LUI *7	PC, USB memory	No	-	-
Function Settings	Main Control- ler PCB	-	Clear	Clear	-	-	-	Clear	-	-	-	Clear	-	-	-	-	Clear	-	-	-	Yes	Remote UI *6 LUI *7	PC, USB memory	No	-	-
Set Des- tination	Main Control- ler PCB	-	Clear	Clear	-	-	-	-	Clear	-	-	Clear	-	-	-	-	Clear	-	-	-	Yes	Remote UI *6 LUI *7	PC, USB memory	No	-	-
Manage- ment Set- tings		-	Clear	Clear	-	-	-	-	-	Clear	-	Clear	-	-	-	-	Clear	-	-	-	Yes	Remote UI *6 LUI *7	PC, USB memory	No	-	-
	onitor/Cance	el	-					-					-						-			-	1			
_	Main Control- ler PCB	-	Clear	Clear	-	-	-	-	-	-	-	-	-	-	-	Clear	Clear	-	-	-	No	-	-	No	-	-
Counter																										
Part counter (Main Control- ler)	Main Control- ler PCB	-	Clear	Clear	-	-	-	-	-	-	-	-	-	-	Clear	-	-	-	-	-	No	-	-	No	-	-
Part counter (DC Con- troller)	Control-	Clear	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	-	No	-	-
Other	1		I	1			1	1		ı		ı	1	I	ı	1	1					ı	1			
Certifi- cate Set- tings		-	Clear	Clear	Clear	-	-	-	-	-	-	-	-	-	-	-	Clear	-	-	-	No	-	-	No	-	-
Service m			1																		<u> </u>					
Service mode setting values (Reader)	Main Control- ler PCB	-	Clear	-	-	-	-	-	-	-	-	-	Clear	-	-	-	-	-	-	-	No	-	-	No	-	-
Service mode setting values (Main Control- ler)	Main Control- ler PCB	-	Clear	-	-	-	-	-	-	-	-	-	-	Clear	-	-	Clear	-	-	-	Yes	Remote UI *6 LUI *7	PC, USB memory			USB memory

												Delete														
		Rep	lace			Me	nu > Syste	m Manage	ment Settir	ngs					Service I	Mode > CO	PIER > FUI	NCTION >			Ва	ackup by U	ser	Bac	kup by Sei	rvice
Data	Location			1141-11	Initializ-	Initializ-			Menu	Clear						CLEAR				SPLMAN						
Dutu	Location	Engine Control- ler PCB	Main Control- ler PCB	All Data / Settings	ing Key and Cer- tificate	ing Ad- dress Book	Preferen- ces	Function Settings	Set Desti-	Manage- ment Set- tings		Clear All	R-CON *1	"SRVC- DAT*2"	COUN- TER	HIST *3	ALL	PLPW- CLR	DC-CON	SPL4381 0	Yes/No	Method	Location to be stored	Yes/No	Method	Location to be stored
Service mode setting values (DC Con- troller)	Engine Control- ler PCB	Clear	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Clear	-	Yes	Remote UI *6 LUI *7	PC, USB memory	Yes	Service mode*5 *8	USB memory / Main Control- ler
Password																								•		
System Adminis- trator pass- word	Main Control- ler PCB	-	Clear*4	Clear*4	-	-	-	-	-	Clear*4	-	Clear*4	-	-	-	-	Clear*4	-	-	Clear*11	No	-	-	No	-	-
Security Policy Adminis- trator pass- word	Main Control- ler PCB	-	Clear	Clear	-	-	-	-	-	Clear	-	Clear	-	-	-	-	Clear	Clear	-	-	No	-	-	No	-	-
Service Mode pass- word*12	Main Control- ler PCB	-	Clear	Clear	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	-	No	-	-

- *1. The factory adjustment values of the Reader and ADF are initialized.
- *2. Service data (Except "COPIER > COUNTER" and "COPIER > FEED-ADJ") are cleared. The factory adjustment values of the Reader and ADF are not initialized.
- *3. Service data is cleared. User data is not cleared. The factory adjustment values of the Reader and ADF are not initialized.
- *4. In the counter meter-installed model: The user data and service data and each history and the settings of the system administrator are cleared. (The system manager ID and password are changed back to the default values ID: 7654321/PWD: 7654321) The factory adjustment values of the Reader and ADF are not initialized.
- *5. COPIER > FUNCTION > SYSTEM > IMPORT / COPIER > FUNCTION > SYSTEM > EXPORT
- *6. Settings/Registration >Management Settings >Data Management > Import/Export
- *7. Settings Manu > Management Settings > Data Management > Import/Export
- *8. COPIER > FUNCTION > VIFFNC > STOR-DCN
- *9. Except "Preferences > Network Settings"
- *10. Clear only an item of the "Preferences > Network Settings".
- *11. Because the settings of the "System Manager ID and PIN" are cleared, set "System Manager ID and PIN" again.
- *12. COPIER > OPTION > BODY > SM-PSWD(Setup password by SM-PSWD)

Soft counter specifications

The numbers entered for software counters are classified as follows:

No.	Counter Details	No.	Counter Details
100 to 199	Total	600 to 699	Memory Media Print
200 to 299	Сору	700 to 799	Receive Print
300 to 399	Print	800 to 899	Report Print
400 to 499	Copy + Print	900 to 999	Transmission/Remote/Media
500 to 599	Scan		

100 to 199

No.	Counter Name	No.	Counter Name
101	Total 1	137	Total A (Black & White/Small)
102	Total 2	138	Total A1 (2-Sided)
104	Total (Small)	139	Total A2 (2-Sided)
108	Total (Black & White 1)	141	Small A (2-Sided)
109	Total (Black & White 2)	150	Total B1
113	Total (Black & White/Small)	151	Total B2
114	Total 1 (2-Sided)	153	Total B (Small)
115	Total 2 (2-Sided)	156	Total B (Black & White 1)
117	Small (2-Sided)	157	Total B (Black & White 2)
126	Total A1	161	Total B (Black & White/Small)
127	Total A2	162	Total B1 (2-Sided)
129	Total A (Small)	163	Total B2 (2-Sided)
132	Total A (Black & White 1)	165	Small B (2-Sided)
133	Total A (Black & White 2)	194	Cartridge Replacement (Black)

200 to 299

No.	Counter Name	No.	Counter Name
201	Copy (Total 1)	228	Copy (Black & White/Small)
202	Copy (Total 2)	238	Copy (Black & White/Small/2-Sided)
204	Copy (Small)	249	Copy A (Black & White 1)
205	Copy A (Total 1)	250	Copy A (Black & White 2)
206	Copy A (Total 2)	256	Copy A (Black & White/Small)
208	Copy A (Small)	266	Copy A (Black & White/Small/2-Sided)
209	Local Copy (Total 1)	277	Local Copy (Black & White 1)
210	Local Copy (Total 2)	278	Local Copy (Black & White 2)
212	Local Copy (Small)	284	Local Copy (Black & White/Small)
221	Copy (Black & White 1)	294	Local Copy (Black & White/Small/2-Sided)
222	Copy (Black & White 2)		

300 to 399

No.	Counter Name	No.	Counter Name
301	Print (Total 1)	330	Print (Black & White/Small/2-Sided)
302	Print (Total 2)	331	Printer Driver Print (Total 1)
304	Print (Small)	332	Printer Driver Print (Total 2)
305	Print A (Total 1)	334	Printer Driver Print (Small)
306	Print A (Total 2)	339	Printer Driver Print (Black & White 1)
308	Print A (Small)	340	Printer Driver Print (Black & White 2)
313	Print (Black & White 1)	346	Printer Driver Print (Black & White/Small)
314	Print (Black & White 2)	356	Printer Driver Print (Black & White/Small/2-Sided)
320	Print (Black & White/Small)		

400 to 499

No.	Counter Name	No.	Counter Name
404	Copy + Print (Black & White/Small)	413	Copy + Print (2)
405	Copy + Print (Black & White 2)	414	Copy + Print (1)
406	Copy + Print (Black & White 1)	422	Copy + Print (Black & White/Small/2-Sided)
412	Copy + Print (Small)		

500 to 599

No.	Counter Name	No.	Counter Name
501	Scan (Total 1)	508	Black & White Scan (Small)
502	Scan (Total 2)	509	Color Scan (Total 1)
504	Scan (Small)	510	Color Scan (Total 2)
505	Black & White Scan (Total 1)	512	Color Scan (Small)
506	Black & White Scan (Total 2)		

600 to 699

No.	Counter Name	No.	Counter Name
631	Memory Media Print (Total 1)	640	Memory Media Print (Black & White 2)
632	Memory Media Print (Total 2)	646	Memory Media Print (Black & White/Small)
634	Memory Media Print (Small)	656	Memory Media Print (Black & White/Small/2-Sided)
639	Memory Media Print (Black & White 1)		

700 to 799

No.	Counter Name	No.	Counter Name
701	Receive Print (Total 1)	710	Receive Print (Black & White 2)
702	Receive Print (Total 2)	716	Receive Print (Black & White/Small)
704	Receive Print (Small)	726	Receive Print (Black & White/Small/2-Sided)
709	Receive Print (Black & White 1)		

800 to 899

No.	Counter Name	No.	Counter Name
801	Report Print (Total 1)	810	Report Print (Black & White 2)
802	Report Print (Total 2)	816	Report Print (Black & White/Small)
804	Report Print (Small)	826	Report Print (Black & White/Small/2-Sided)
809	Report Print (Black & White 1)		

900 to 999

No.	Counter Name	No.	Counter Name
921	TX Scan Total 5 (Color)	945	TX Scan/E-Mail (Color)
922	TX Scan Total 5 (Black & White)	946	TX Scan/E-Mail (Black & White)
939	Remote Scan (Color)	959	Memory Media Scan (Color)
940	Remote Scan (Black & White)	960	Memory Media Scan (Black & White)

List of Items Which Can Be Imported

The following shows the items to be imported for this model.

Note that the setting values are not imported in cases such as below:

- Items which are originally not included in a DCM file (e.g.: "Settings/Registration Basic Information" of a DCM file exported using service mode)
- Not included in the import coverage (Cases A to C)
- · There are no options and functions related to setting values

The import coverage shown in the table below is as shown below. Those that are not described here cannot be imported.

Import coverage Description					
Case A: The same machine	Import to the same machine (for backup and restoration, etc.)				
Case B: The same model	Import to a different machine of the same model (the same series)				
Case C: Different model	Import to a different machine of a different model (a different series)				

Service Mode Settings

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
COPIER	ADJUST	FEED-ADJ	ADJ-MFY	Yes	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-MFX	Yes	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-MFYR	Yes	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-MFXR	Yes	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-C1Y	Yes	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-C1X	Yes	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-C1YR	Yes	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-C1XR	Yes	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-C2Y	Yes	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-C2X	Yes	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-C2YR	Yes	-	-
COPIER	ADJUST	FEED-ADJ	ADJ-C2XR	Yes	-	-
COPIER	ADJUST	VIFADJ	DEV-HV-K	Yes	-	-
COPIER	ADJUST	VIFADJ	FU-TMP	Yes	-	-
COPIER	ADJUST	VIFADJ	CRG-HV-K	Yes	-	-
COPIER	ADJUST	VIFADJ	LS-PWR-K	Yes	-	-
COPIER	ADJUST	VIFADJ	TR-HV	Yes	-	-
COPIER	FUNCTION	SPLMAN	SPL14159	Yes	Yes	Yes
COPIER	FUNCTION	SPLMAN	SPL65677	Yes	-	-
COPIER	FUNCTION	SPLMAN	SPL68676	Yes	-	-
COPIER	FUNCTION	SPLMAN	SPL68677	Yes	-	-
COPIER	FUNCTION	SPLMAN	SPL25607	Yes	-	-
COPIER	FUNCTION	SPLMAN	SPL93822	Yes	Yes	Yes
COPIER	FUNCTION	SPLMAN	SPL78788	Yes	Yes	Yes
COPIER	FUNCTION	SPLMAN	SPL71100	Yes *1	-	-
COPIER	FUNCTION	SPLMAN	SPL00171	Yes	Yes	Yes
COPIER	FUNCTION	SPLMAN	SPL80100	Yes	Yes	Yes
COPIER	FUNCTION	SPLMAN	SPL84194	Yes	Yes	Yes
COPIER	FUNCTION	SPLMAN	SPL78148	Yes	-	-
COPIER	FUNCTION	INSTALL	ERDS	Yes	Yes	Yes
COPIER	FUNCTION	INSTALL	RGW-PORT	Yes	Yes	Yes
COPIER	OPTION	BODY	MIBCOUNT	Yes	Yes	Yes
COPIER	OPTION	BODY	NS-CMD5	Yes	-	-

^{*1.} FAX model only

Initial screen	Main item	Intermediate	Sub item	Case A	Case B	Case C
CODIED	OPTION	item	NO DI N			
COPIER	OPTION	BODY	NS-PLN	Yes	-	-
COPIER	OPTION	BODY	NS-LGN	Yes	- V	- V
COPIER	OPTION	BODY	SLPMODE	Yes	Yes	Yes
COPIER	OPTION	BODY	SDTM-DSP	Yes	Yes	Yes
COPIER	OPTION	FNC-SW	LCDSFLG	Yes	Yes	Yes
COPIER	OPTION OPTION	FNC-SW FNC-SW	CRG-PROC	Yes	Yes	-
COPIER	<u> </u>	FNC-SW	CRGLF-K RPT2SIDE	Yes	Yes	- Van
COPIER	OPTION OPTION	DSPLY-SW	CRGLW-LV	Yes Yes	Yes Yes	Yes Yes
COPIER	OPTION	DSPLY-SW	CRG-LOG	Yes	Yes	res
COPIER	OPTION	IMG-MCON	REGM-SEL	Yes		-
COPIER	OPTION		COUNTER1		-	-
COPIER		USER	COUNTER1	Yes	-	-
	OPTION	USER		Yes	-	-
COPIER	OPTION	USER	COUNTER4	Yes	-	-
COPIER	OPTION	USER	COUNTER4	Yes	-	-
COPIER	OPTION	USER	COUNTERS	Yes	-	-
COPIER	OPTION	USER	COUNTER6	Yes	-	-
COPIER	OPTION	USER	CNT-SW	Yes	-	-
COPIER	OPTION	USER	CONTROL	Yes	-	-
COPIER	OPTION	USER	CTCHKDSP	Yes	-	-
COPIER	OPTION	USER	TNRB-SW	Yes	-	-
COPIER	OPTION	USER	SMD-EXPT	Yes	-	-
COPIER	OPTION	USER	ACC-SLP	Yes	Yes	Yes
COPIER	OPTION	ACC	CARD-SW	Yes	-	-
COPIER	OPTION	ACC	CC-SPSW	Yes	-	-
FAX	SSSW	SW01		Yes*1	-	-
FAX	SSSW	SW02		Yes *1	-	-
FAX	SSSW	SW03		Yes *1	-	-
FAX	SSSW	SW04		Yes *1	-	-
FAX	SSSW	SW05		Yes *1	-	-
FAX	SSSW	SW06		Yes *1	-	-
FAX	SSSW	SW07		Yes *1	-	-
FAX	SSSW	SW08		Yes *1	_	_
FAX	SSSW	SW09		Yes *1	-	_
FAX	SSSW	SW10		Yes *1	-	_
FAX	SSSW	SW11		Yes *1		
					-	-
FAX	SSSW	SW12		Yes *1	-	-
FAX	SSSW	SW13		Yes *1	-	-
FAX	SSSW	SW14		Yes *1	-	-
FAX	SSSW	SW15		Yes *1	-	-
FAX	SSSW	SW16		Yes *1	-	-
FAX	SSSW	SW17		Yes *1	-	-
FAX	SSSW	SW18		Yes *1	-	-
FAX	SSSW	SW19		Yes *1	-	-
FAX	SSSW	SW20		Yes *1	-	-
FAX	SSSW	SW21		Yes *1	_	_
FAX	SSSW	SW22		Yes *1	_	_
FAX	SSSW	SW23		Yes *1	_	_
FAX	SSSW	SW24				
1 ^^	33344	344		Yes *1	-	-

^{*1.} FAX model only

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
FAX	SSSW	SW25		Yes *1	-	-
FAX	SSSW	SW26		Yes *1	-	-
FAX	SSSW	SW27		Yes *1	-	-
FAX	SSSW	SW28		Yes *1	-	-
FAX	SSSW	SW29		Yes *1	-	-
FAX	SSSW	SW30		Yes *1	-	-
FAX	SSSW	SW31		Yes *1	-	-
FAX	SSSW	SW32		Yes *1	-	-
FAX	MENU	005		Yes *1	-	-
FAX	MENU	006		Yes *1	-	-
FAX	MENU	007		Yes *1	-	-
FAX	MENU	008		Yes *1	-	-
FAX	MENU	009		Yes *1	-	-
FAX	MENU	010		Yes *1	-	-
FAX	NUM	002		Yes *1	-	-
FAX	NUM	003		Yes *1	-	-
FAX	NUM	004		Yes *1	-	-
FAX	NUM	005		Yes *1	-	-
FAX	NUM	006		Yes *1	_	-
FAX	NUM	008		Yes *1	_	-
FAX	NUM	010		Yes *1	_	-
FAX	NUM	011		Yes *1	_	-
FAX	NUM	012		Yes *1	_	-
FAX	NUM	013		Yes *1	-	-
FAX	NUM	015		Yes *1	-	-
FAX	NUM	016		Yes *1	-	-
FAX	NUM	017		Yes *1	_	-
FAX	NUM	018		Yes *1	_	-
FAX	NUM	019		Yes *1	_	-
FAX	NUM	020		Yes *1	-	-
FAX	NUM	021		Yes *1	-	-
FAX	NUM	022		Yes *1	-	-
FAX	NUM	023		Yes *1	-	-
FAX	NUM	024		Yes *1	-	-
FAX	NUM	025		Yes *1	-	-
FAX	NUM	026		Yes *1	_	-
FAX	NUM	027		Yes *1	-	-
FAX	NUM	029		Yes *1	-	-
FAX	NUM	049		Yes *1	-	-
FAX	NUM	051		Yes *1	-	-
FAX	NUM	053		Yes *1	-	-
FAX	NUM	054		Yes *1	-	-
FAX	NCU	TONE	001	Yes *1	-	-
FAX	NCU	TONE	002	Yes *1	-	-
FAX	NCU	PULSE	FORM	Yes*1	-	-
FAX	NCU	PULSE	001	Yes *1	_	-
FAX	NCU	PULSE	002	Yes *1	-	-
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^{*1.} FAX model only

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
FAX	NCU	PULSE	003	Yes *1	-	-
FAX	NCU	PULSE	004	Yes *1	-	-
FAX	NCU	DIALTONE	BIT	Yes *1	-	-
FAX	NCU	DIALTONE	001	Yes *1	-	-
FAX	NCU	DIALTONE	002	Yes *1	-	-
FAX	NCU	DIALTONE	003	Yes *1	-	-
FAX	NCU	DIALTONE	004	Yes *1	-	-
FAX	NCU	DIALTONE	005	Yes *1	-	-
FAX	NCU	DIALTONE	006	Yes *1	-	-
FAX	NCU	DIALTONE	007	Yes *1	-	-
FAX	NCU	DIALTONE	008	Yes *1	-	-
FAX	NCU	2ND DLTN	BIT	Yes *1	-	-
FAX	NCU	2ND DLTN	001	Yes *1	-	-
FAX	NCU	2ND DLTN	002	Yes *1	-	-
FAX	NCU	2ND DLTN	003	Yes *1	-	_
FAX	NCU	2ND DLTN	004	Yes *1	-	_
FAX	NCU	2ND DLTN	005	Yes *1	-	_
FAX	NCU	2ND DLTN	006	Yes *1		_
FAX	NCU	2ND DLTN	007	Yes *1	-	_
FAX	NCU	2ND DLTN	008	Yes *1	-	_
FAX	NCU	BUSTONE0	BIT	Yes *1	-	_
FAX	NCU	BUSTONE0	001	Yes *1	-	_
FAX	NCU	BUSTONE0	002	Yes *1	_	_
FAX	NCU	BUSTONE0	003	Yes *1	-	_
FAX	NCU	BUSTONE0	004	Yes *1	-	_
FAX	NCU	BUSTONE0	005	Yes *1	-	_
FAX	NCU	BUSTONE0	006	Yes *1	_	_
FAX	NCU	BUSTONE0	007	Yes *1	_	_
FAX	NCU	BUSTONE0	008	Yes *1	_	_
FAX	NCU	BUSTONE1	BIT	Yes *1	_	_
FAX	NCU	BUSTONE1	001	Yes *1	_	_
FAX	NCU	BUSTONE1	002	Yes *1	_	_
FAX	NCU	BUSTONE1	003	Yes *1	<u> </u>	_
FAX	NCU	BUSTONE1	004	Yes *1	-	-
FAX	NCU	BUSTONE1	005	Yes *1		-
FAX	NCU	BUSTONE1	006	Yes *1	-	-
FAX	NCU	BUSTONE1	007	Yes ¹	-	-
FAX	NCU	BUSTONE1	008		-	-
FAX	NCU	REORDRTN	BIT	Yes *1	-	-
FAX	NCU			Yes *1	-	-
		REORDRIN	001	Yes *1	-	-
FAX	NCU	REORDRIN	002	Yes *1	-	-
FAX	NCU	REORDRIN	003	Yes *1	-	-
FAX	NCU	REORDRIN	004	Yes *1	-	-
FAX	NCU	REORDRIN	005	Yes *1	-	-
FAX	NCU	REORDRTN	006	Yes *1	-	-
FAX	NCU	REORDRTN	007	Yes *1	-	-
FAX	NCU	REORDRTN	008	Yes *1	-	-

^{*1.} FAX model only

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
FAX	NCU	AUTO RX	001	Yes *1	-	-
FAX	NCU	AUTO RX	002	Yes *1	-	-
FAX	NCU	AUTO RX	003	Yes *1	-	-
FAX	NCU	AUTO RX	004	Yes *1	-	-
FAX	NCU	AUTO RX	005	Yes *1	-	-
FAX	NCU	AUTO RX	006	Yes *1	-	-
FAX	NCU	AUTO RX	007	Yes *1	-	-
FAX	NCU	AUTO RX	008	Yes *1	-	-
FAX	NCU	AUTO RX	009	Yes *1	-	-
FAX	NCU	CNGDTCT	001	Yes *1	-	-
FAX	NCU	CNGDTCT	002	Yes *1	-	-
FAX	NCU	CNGDTCT	006	Yes *1	-	-
FAX	NCU	CNGDTCT	007	Yes *1	-	-
FAX	NCU	CNGDTCT	008	Yes *1	-	_
FAX	NCU	CNGDTCT	009	Yes *1	-	_
FAX	NCU	CNGDTCT	011	Yes *1	-	_
FAX	NCU	CNGDTCT	012	Yes *1	-	_
FAX	NCU	SPECIALB	SW01	Yes *1	-	_
FAX	NCU	SPECIALB	SW02	Yes *1	-	_
FAX	NCU	SPECIALB	SW03	Yes *1	-	_
FAX	NCU	SPECIALB	SW04	Yes *1	-	_
FAX	NCU	SPECIALB	SW05	Yes *1	-	_
FAX	NCU	SPECIALB	SW06	Yes *1	-	_
FAX	NCU	SPECIALB	SW07	Yes *1	-	_
FAX	NCU	SPECIALB	SW08	Yes *1	-	_
FAX	NCU	SPECIALB	SW09	Yes *1	-	_
FAX	NCU	SPECIALB	SW10	Yes *1	_	_
FAX	NCU	SPECIALB	SW11	Yes *1	_	_
FAX	NCU	SPECIALB	SW12	Yes *1	_	_
FAX	NCU	SPECIALB	SW13	Yes *1	_	_
FAX	NCU	SPECIALB	SW14	Yes *1	_	_
FAX	NCU	SPECIALB	SW15	Yes *1	_	_
FAX	NCU	SPECIALB	SW16	Yes *1	-	_
FAX	NCU	SPECIALB	SW17	Yes *1	-	-
FAX	NCU	SPECIALB	SW18	Yes *1		-
FAX	NCU	SPECIALB	SW19	Yes *1	-	-
FAX	NCU	SPECIALB	SW20		-	-
FAX	NCU	SPECIALB	SW20	Yes *1	-	-
FAX	NCU	SPECIALB	SW21	Yes *1	-	-
FAX	NCU		SW22 SW23	Yes *1	-	-
		SPECIALB		Yes *1	-	-
FAX	NCU	SPECIALB	SW24	Yes *1	-	-
FAX	NCU	SPECIALB	SW25	Yes *1	-	-
FAX	NCU	SPECIALB	SW26	Yes *1	-	-
FAX	NCU	SPECIALB	SW27	Yes *1	-	-
FAX	NCU	SPECIALB	SW28	Yes *1	-	-
FAX	NCU	SPECIALB	SW29	Yes *1	-	-
FAX	NCU	SPECIALB	SW30	Yes *1	-	-

^{*1.} FAX model only

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
FAX	NCU	SPECIALN	004	Yes *1	-	-
FAX	NCU	SPECIALN	005	Yes *1	-	-
FAX	NCU	SPECIALN	006	Yes *1	-	-
FAX	NCU	SPECIALN	007	Yes *1	-	-
FAX	NCU	SPECIALN	008	Yes *1	-	-
FAX	NCU	SPECIALN	009	Yes *1	-	-
FAX	NCU	SPECIALN	011	Yes *1	-	-
FAX	NCU	SPECIALN	012	Yes *1	-	-
FAX	NCU	SPECIALN	013	Yes *1	-	-
FAX	NCU	SPECIALN	014	Yes *1	-	-
FAX	NCU	SPECIALN	015	Yes *1	-	-
FAX	NCU	SPECIALN	016	Yes *1	-	-
FAX	NCU	SPECIALN	017	Yes *1	-	-
FAX	NCU	SPECIALN	019	Yes *1	-	-
FAX	NCU	SPECIALN	020	Yes *1	-	-
FAX	NCU	SPECIALN	024	Yes *1	-	-
FAX	NCU	SPECIALN	025	Yes *1	-	_
FAX	NCU	SPECIALN	026	Yes *1	-	_
FAX	NCU	SPECIALN	027	Yes *1	-	_
FAX	NCU	SPECIALN	030	Yes *1	-	_
FAX	NCU	SPECIALN	040	Yes *1	-	_
FAX	NCU	SPECIALN	041	Yes *1	-	_
FAX	NCU	SPECIALN	042	Yes *1	-	_
FAX	NCU	SPECIALN	044	Yes *1	-	_
FAX	NCU	SPECIALN	045	Yes *1	-	_
FAX	NCU	SPECIALN	046	Yes *1	-	_
FAX	NCU	SPECIALN	047	Yes *1	_	_
FAX	NCU	SPECIALN	048	Yes *1	_	_
FAX	NCU	SPECIALN	065	Yes *1	-	_
FAX	NCU	SPECIALN	066	Yes *1	-	_
FAX	NCU	RKEY	001	Yes *1	-	_
FAX	NCU	RKEY	002	Yes *1	_	_
FAX	NCU	PBXDIALT	BIT	Yes *1	-	_
FAX	NCU	PBXDIALT	001	Yes *1	-	_
FAX	NCU	PBXDIALT	002	Yes *1	_	_
FAX	NCU	PBXDIALT	003	Yes *1	-	-
FAX	NCU	PBXDIALT	004	Yes *1	-	_
FAX	NCU	PBXDIALT	005	Yes *1	-	_
FAX	NCU	PBXDIALT	006	Yes *1	-	_
FAX	NCU	PBXDIALT	007	Yes *1	_	_
FAX	NCU	PBXDIALT	008	Yes *1	_	_
FAX	NCU	PBXBUSYT	BIT	Yes *1	_	_
FAX	NCU	PBXBUSYT	001	Yes *1	_	_
FAX	NCU	PBXBUSYT	002	Yes *1	_	_
FAX	NCU	PBXBUSYT	003	Yes *1	-	_
FAX	NCU	PBXBUSYT	004	Yes *1	-	_
FAX	NCU	PBXBUSYT	005	Yes *1		
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^{*1.} FAX model only

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
FAX	NCU	PBXBUSYT	006	Yes *1	-	-
FAX	NCU	PBXBUSYT	007	Yes *1	-	-
FAX	NCU	PBXBUSYT	008	Yes *1	-	-

^{*1.} FAX model only