

Color imageCLASS MF733Cdw MF731Cdw



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.

The following paragraph does not apply to any countries where such provisions are inconsistent with local law.



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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
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.		Turn on the power.
1x	Install the cable/wire to the cable guide or wire saddle.	OFF	Turn off the power.
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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Safety Precautions

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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

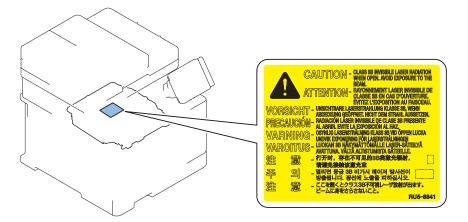
The label shown in the following figure is affixed on the laser scanner unit.

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.



Toner Safety



About Toner

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



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.

A CAUTION:

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

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

A 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 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

MF734C/733C Series



MF732C/731C Series



	MF734Cdw	MF733Cdw	MF732Cdw	MF731Cdw
Сору	Yes	Yes	Yes	Yes
Print	Yes	Yes	Yes	Yes
Fax	Yes	Yes	-	-
Remote UI	Yes	Yes	Yes	Yes
ADF	2-sided scanning	2-sided scanning	1-sided scanning	1-sided scanning
2-sided printing	Yes	Yes	Yes	Yes
Control Panel	5 inch Touch Panel	5 inch Touch Panel	5 inch Touch Panel	5 inch Touch Panel
NFC	Yes	Yes	-	-
Backup of counter	-	-	-	-
MEAP	-	-	-	-
Network	Yes	Yes	Yes	Yes
Wireless LAN	Yes	Yes	Yes	Yes

PDL

	MF734Cdw	MF733Cdw	MF732Cdw	MF731Cdw
PS	Yes	-	-	-
PCL	Yes	-	Yes	-



Name	Description
Cassette Feeding Module-AF1	550 sheets (80 g/m2) of paper can be placed
TELEPHONE 6 KIT Long cord Cool White	MF734Cdw only

Features

Middle Class A4/LTR Color Laser MFP

- 1. Improved Control Panel operability
 Improved operability by adopting the Large 5 inch Color Touch Panel.
- 1-path simultaneous duplex reading Increased productivity in 2-sided original reading by adopting the 1-path ADF (Scan, Send, Copy). (MF734Cdw/MF733Cdw only)
- 3. Support for mobile print
 Printing from smartphones, tablets and PCs via an application such as Apple AirPrint, proprietary application, Google Cloud
 Print and Mopria Print becomes available.
- Support for wireless LAN
 Communication via mobile device and wireless LAN becomes available by connecting a wireless LAN router to the network to which this machine is connected.
- NFC (Near Field Communication)
 Printing can be performed by touching a mobile device where Canon PRINT Business is installed. (MF734Cdw/MF733Cdw only)

Specifications



Specifications of Host Machine

Item	Specification / Function
Copyboard	Fixed
Device Installation	Desktop
Light source	LED (RGB)
Photoreceptor	OPC drum (φ24)
Image scanning	CIS (color)
Light exposure method	Laser beam exposure
Charging method	Roller charging
Developing method	Contact development
Transfer method	Primary transfer: Sequential 4 colors transfer to Intermediate Transfer Belt Secondary transfer: 4-color batch transfer onto the transfer material by the Transfer Roller
Separation method	Curvature separation
Cassette paper feed	Simple separation retard
MP Tray paper feed	Pad separation method
Drum cleaning method	Cleaning blade
Transfer cleaning method	Cleaning brush and roller
Fixing method	On-demand fixing
Paper delivery method	Face-down
Toner level sensor	Mounted
Toner type	Non-magnetic one-component toner
Toner supply method	All-in-one cartridge (drum + toner)
Toner save mode	N/A
Document types	Sheet / book
Maximum document size	Copyboard Glass: 216 mm × 297 mm Feeder: 216 mm × 356 mm
Document size sensor	N/A
Image size magnification	Zoom: 25 to 400% (1% increment)
Warm-up Time *1	13 seconds or less
Recovery Time *2	Approx. 6.1 seconds
Reading resolution	600 x 600 dpi (Maximum)
Reading Speed	Fixed (A4/LTR): • N/A Continuous reading, SEND: • Color: 10 images / minute (A4/LTR) • B&W: 20 images / minute (A4) • B&W: 21 images / minute (LTR)
Print resolution	600 x 600 dpi
First copy time	Color: Approx. 11.3 seconds(A4), Approx. 11.1 seconds(LTR) B&W: Approx. 9.8 seconds(A4), Approx. 9.5 seconds(LTR)
First print time	Color: Approx. 8.6 seconds(A4), Approx. 8.5 seconds(LTR) B&W: Approx. 8.3 seconds(A4), Approx. 8.1 seconds(LTR)
Print Speed *3	At 1-sided printing: • Color/B&W: Approx. 27 sheets/min.(A4), Approx. 28 sheets/min.(LTR) At 2-sided printing: • Color/B&W: Approx. 21.9 sheets/min.(A4), Approx. 23.1 sheets/min.(LTR)
Available paper type for cassette	Thin paper, Recycled paper, Color paper, Plain paper, Heavy paper, Coated paper, Label, Envelope (Refer to "Paper type" on page 8)
Available paper type for Multi-purpose Tray	Thin paper, Recycled paper, Color paper, Plain paper, Heavy paper, Coated paper, Label, Envelope (Refer to "Paper type" on page 8)
Available paper size in cassette	A4, B5, A5, LGL, LTR, STMT, EXEC, OFFICIO, B-OFFICIO, M-OFFICIO, GLTR, GLGL, FLS, AFLS, indLGL, K16, Postcard, Envelopes (COM10, Monarch, Nagagata 3, Yougatanaga 3, C5, DL), Custom Paper Size (Refer to "Paper size" on page 9)

Item	Specification / Function
Multi-purpose tray paper size	A4, B5, A5, LGL, LTR, STMT, EXEC, OFFICIO, B-OFFICIO, M-OFFICIO, GLTR, GLGL, FLS, AFLS, indLGL, K16, Envelopes (COM10, Monarch, Nagagata 3, Yougatanaga 3, C5, DL), Custom Paper Size (Refer to "Paper size" on page 9)
Cassette capacity	Cassette: 250 sheets (60 to 90 g/m²) Option: 550 sheets (60 to 90 g/m²)
Multi-purpose Tray capacity	50 sheets (60 to 90 g/m ²)
Delivery tray stacking capacity *4	150 sheets (75 g/m ²)
Continuous copying	1 to 99 sheets
Automatic 2-sided	Available (A4, B5, LGL, LTR, EXEC, FLS)
Memory capacity	1 GB
Sleep mode	Available
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: 120 to 127 V (60Hz) 200 V system: 220 to 240 V (50/60Hz)
Maximum power consumption	1500 W or lower
Average power at operation	120 V : Approx. 520 W 230 V : Approx. 560 W
Average power at standby	120 V : Approx. 20.6 W 230 V : Approx. 17.7 W
Average power at sleep mode	Approx. 1.0 W
Power consumption at Main Power Switch OFF	0.3 W or lower
Dimensions (W x D x H)	471 × 469 × 460 mm (MF734Cdw/MF733Cdw) 451 × 469 × 460 mm (MF732Cdw/MF731Cdw)
Weight (Excluding toner cartridges)	Approx. 26.5 kg

- *1 : Warm-up time is an interval between when the machine is turned ON and when the main screen appears on the display. Warm-up time may vary depending on the use conditions and environment of the machine.
- *2 : Time for recovery from sleep to standby.
- *3: The print speed may become lower depending on the settings such as output resolution, paper size, 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.
- *4 : The actual stack capacity varies depending on the site environment and the type of paper used.

Paper type

(Yes: Pickup possible -: Pickup not possible)

Турє	of paper	Paper set- tings in this machine	Standard Cassette/ Cassette Feeding Module-AF1 (option)	Multi-purpose Tray	Auto 2-sided printing
Thin paper	60 to 70 g/m2	Thin 1	Yes	Yes	Yes
	60 g/m2	Thin 2 *1	Yes	Yes	Yes
	52 to 59 g/m2	Thin 3	Yes	-	-
Recycled	60 to 75 g/m2	Recycled 1	Yes	Yes	Yes
	71 to 82 g/m2	Recycled 2	Yes	Yes	Yes
Color	71 to 82 g/m2	Color	Yes	Yes	Yes
Plain	71 to 82 g/m2	Plain 1	Yes	Yes	Yes
	83 to 90 g/m2	Plain 2	Yes	Yes	Yes
Heavy paper	91 to 119 g/m2	Heavy 1	Yes	Yes	Yes

Туре	of paper	Paper set- tings in this machine	Standard Cassette/ Cassette Feeding Module-AF1 (option)	Multi-purpose Tray	Auto 2-sided printing
Heavy paper	120 to 128 g/m2	Heavy 2	Yes	Yes	Yes
	129 to 163 g/m2	Heavy 3	Yes	Yes	Yes
Coated	100 to 120 g/m2	Coated 1	Yes	Yes	Yes
	121 to 150 g/m2	Coated 2	Yes	Yes	Yes
	151 to 200 g/m2	Coated 3	Yes	Yes	Yes
Label paper		Label paper	Yes	Yes	-
Envelope (Nagagata 3, Yougatanaga 3, C5)		Envelope 1	Yes	Yes	-
Envelope (COM10), Monarch, DL)	Envelope 2	Yes	Yes	-

 $^{^{*}1}$: When the paper of 60 g/m2 is curled while <Thin 1> is set, select <Thin 2>.



(Yes: Pickup possible -: Pickup not possible)

Pa	per size	Standard Cassette/ Cassette Feeding Mod- ule-AF1 (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	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
STMT	139.7 mm x 215.9 mm	Yes	Yes	-
EXEC	184.2 mm x 266.7 mm	Yes	Yes	Yes
OFFICIO*4	215.9 mm x 317.5 mm	Yes	Yes	Yes
B-OFFICIO*4	216 mm x 355 mm	Yes	Yes	Yes
M-OFFICIO*4	216 mm x 341 mm	Yes	Yes	Yes
G-LTR*4	203.2 mm x 266.7 mm	Yes	Yes	Yes
G-LGL*4	203.2 mm x 330.2 mm	Yes	Yes	Yes
FLSC	215.9 mm x 330.2 mm	Yes	Yes	Yes
AFLS*4	206 mm x 338 mm	Yes	Yes	Yes
Indian LGL*4	215.0 mm x 345.0 mm	Yes	Yes	-
Envelope No.10 (COM10)	104.7 mm x 241.3 mm	Yes	Yes	-
Envelope Monarch	98.4 mm x 190.5 mm	Yes	Yes	-
Envelope C5	162.0 mm x 229.0 mm	Yes	Yes	-
Envelope DL	110.0 mm x 220.0 mm	Yes	Yes	-
Custom paper	-	Yes *1	Yes *2	Yes *3

^{*1: 100 × 148} mm to 215.9 × 355.6 mm

^{*2: 676.2 × 127} mm to 215.9 × 355.6 mm

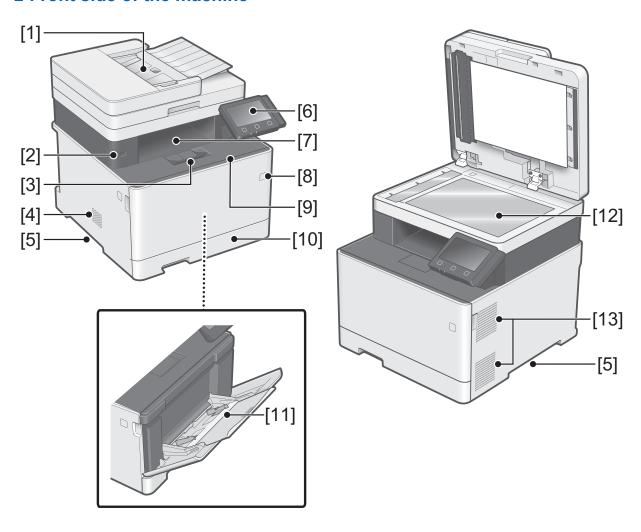
^{*3: 176 × 250} mm to 215.9 × 355.6 mm

^{*4:} Only when the user-defined size is configured on the driver

Parts Name

External view

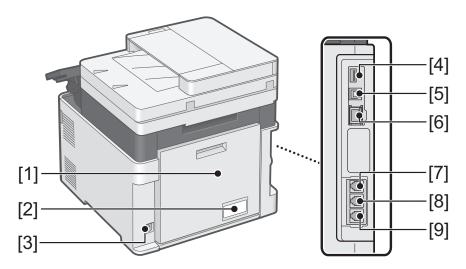
■ Front side of the machine



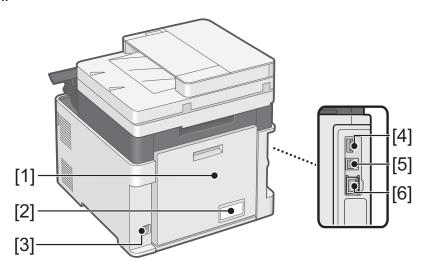
No.	Name	No.	Name
1	Feeder	8	Power Switch
2	USB port (for USB device)	9	Front Cover
3	Delivery Stopper	10	Pickup Cassette
4	Speaker	11	Multi-purpose Tray
5	Handle for carrying	12	Copyboard Glass
6	Control Panel	13	Ventilation hole
7	Delivery Tray		

■ Rear side of the machine

MF734Cdw /MF733Cdw



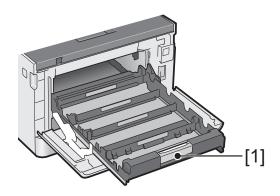
MF732Cdw / MF731Cdw



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

^{*:} MF734Cdw/MF733Cdw only

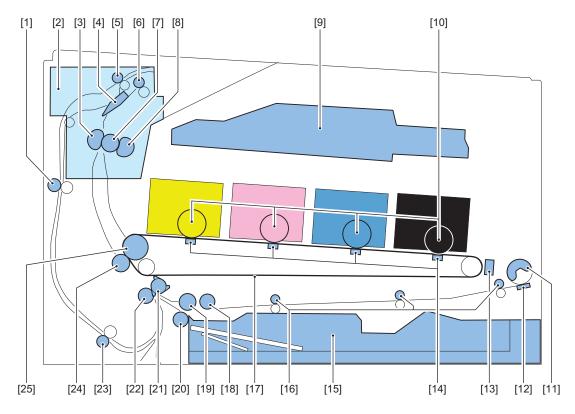
■ Inside of the host machine



No.	Name
1	Toner Cartridge Tray

Cross Section View

■ Host machine

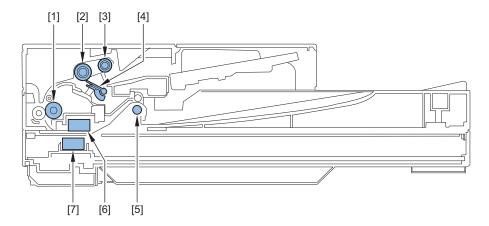


No.	Name	No.	Name
[1]	Duplex Feed Roller	[14]	Primary Transfer Brush
[2]	Fixing Assembly	[15]	Cassette
[3]	Pressure Film	[16]	Multi-purpose Tray Feed Roller
[4]	Duplex Flapper	[17]	ITB
[5]	Duplex Reverse Roller	[18]	Cassette Pickup Roller
[6]	Delivery Roller	[19]	Cassette Feed Roller
[7]	Fixing Roller	[20]	Cassette Separation Roller
[8]	Fixing Film	[21]	Registration Shutter
[9]	Laser Scanner Unit	[22]	Registration Roller
[10]	Photosensitive Drum	[23]	Duplex Re-pickup Roller
[11]	Multi-purpose Tray Pickup Roller	[24]	Secondary Transfer Roller

No.	Name	No.	Name
1	Multi-purpose Tray Separation Pad	[25]	ITB Drive Roller
	Color Displacement/Density Sensor		

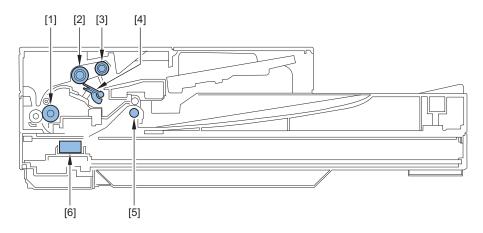
■ ADF/Reader Unit

MF734Cdw/ MF733Cdw



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

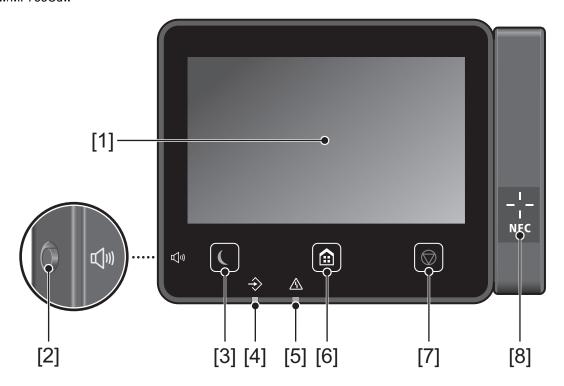
MF732Cdw/MF731Cdw



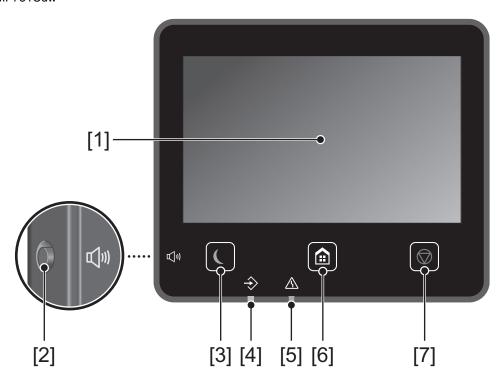
No.	Name
[1]	Feed Roller
[2]	Separation Roller
[3]	Pickup Roller
[4]	Separation Pad
[5]	Delivery Roller
[6]	Contact Image Sensor



MF734Cdw/MF733Cdw



MF732Cdw/MF731Cdw



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

No.	Name
8*	NFC (Near Field Communication) mark

^{*:} MF734Cdw/MF733Cdw only

2

Technical Explanation (Device)

Basic Configuration	17
Original Exposure/Feed System	18
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Basic Configuration

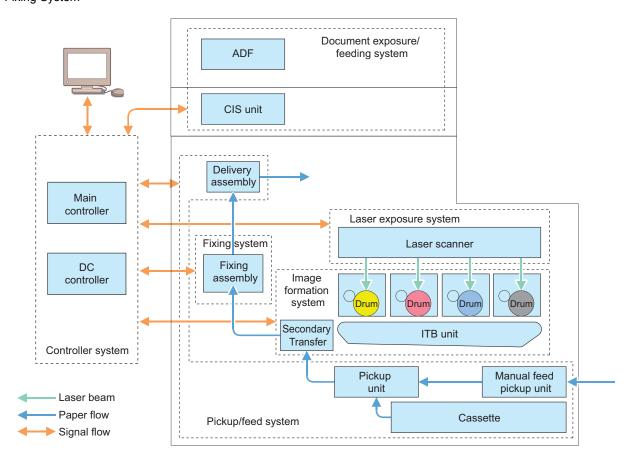


Functional Configuration

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 Contact Image Sensor.

Simultaneous duplex scanning models have 2 Contact Image Sensors, and the front and back sides of paper are scanned at the same time with one feed of the paper.

* This model is not included in the lineup of some of the series. (Reference: "Product Lineup" on page 5)

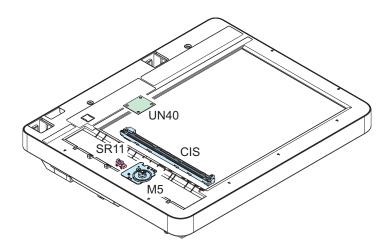
■ Specifications

Description

Item	Specification/Function
Photo conductor	LED
Reading resolution	600 dpi x 600 dpi
Number of gradations	256 gradations
Magnification ratio	25 % to 400 % (in 1% increment)
Reading Sensor	1 line
Original size detection	None

■ Major Components

Description



Symbol	Name
M5	Reader Motor
CIS	Contact Image Sensor
SR11	CIS HP Sensor
UN40	Connecting Relay PCB

■ 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 detection 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 detection 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.

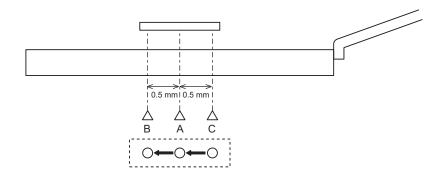
Dust detection evasion

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

In the case of simultaneous duplex scanning models, 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 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 > DF2DST-L1

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

Original Feed System

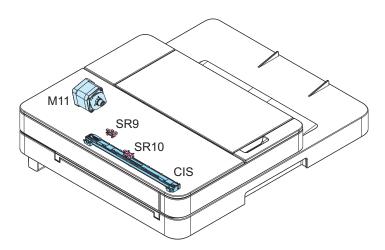
■ ADF Specifications

Description

Item	Specification		
Original separation method	Upper separation		
Document scanning method	Stream reading		
Original basis weight	50 to 105 g/m ²		
Original size	A4, B5, A5, LGL, LTR, STMT Feed direction: 128 to 355.6 mm, Width direction: 105.0 to 215.9 mm		
Original Tray stacking capacity	A4/LTR: 50sheets (80 g/m²) LGL: 30sheets (80 g/m²)		
Original size detection function	No		
Mixed paper functions	Mix of the same configuration: Yes Mix of different configurations: No		
Finished stamp function	No		
Maximum document size	215.9 mm x 355.6 mm		
Document processing speed	Copy 1-sided		

■ Major Components

Description



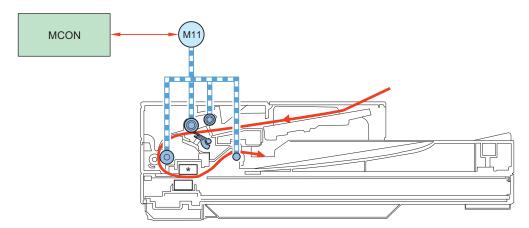
Symbol	Name	Remarks
M11	ADF Motor	-

Symbol	Name	Remarks
CIS		* Simultaneous duplex scanning models only. (Reference: "Product Lineup" on page 5)
SR9	Document Sensor	-
SR10	Document End Sensor	-

■ Drive Configuration

Description

When copy, fax, or scan is started, the ADF Motor (M11) 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
M11	ADF Motor
MCON	Main Controller PCB

^{*} Simultaneous duplex scanning models only. (Reference: "Product Lineup" on page 5)

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

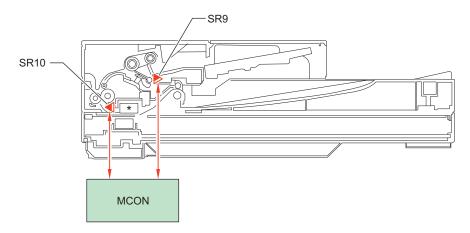
As the actuator is pushed up by placing an original on the Original Tray, the Document Sensor (SR9) is turned ON (light is transmitted -> light is blocked) so that the presence of an original is detected.

Original Edge Detection

As the actuator is pushed up by the leading edge of the fed original, the Document End Sensor (SR10) 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 (SR10) 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 length is determined by the time required from when the Document End Sensor (SR10) detects the original's leading edge to when it detects its trailing edge.



Symbol	Name	
SR9	Document Sensor	
SR10	Document End Sensor	

^{*} Simultaneous duplex scanning models only. (Reference: "Product Lineup" on page 5)

■ 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 or remains in the ADF while the original is being read
- When the Document End Sensor 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. In the case of models equipped with the fax function (built-in speaker), a warning tone (beep sound) sounds when a jam is detected.

The jam can be cleared by removing the jammed paper, opening and then closing the ADF Upper Cover, and placing the original again.

Laser Exposure System



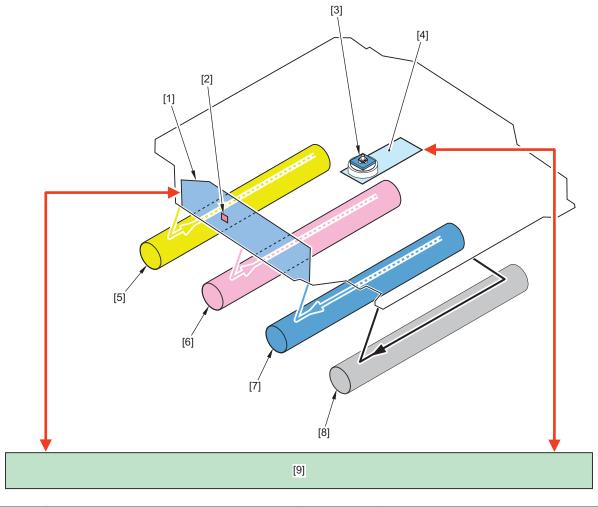
Functional Configuration

Overview

The Laser Exposure system irradiates the Photosensitive Drum with a laser to form a latent image on it according to the video signal sent from the Main Controller.

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.



No.	Name	No.	Name
[1]	Laser Unit	[6]	Photosensitive Drum (M)
[2]	BD Sensor	[7]	Photosensitive Drum (C)
[3]	Scanner Mirror	[8]	Photosensitive Drum (Bk)
[4]	Scanner Motor Unit	[9]	DC Controller
[5]	Photosensitive Drum (Y)	-	-



Failure Detection

Overview

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

- · Scanner area failure
- · Scanner Motor startup failure

Description

Scanner area failure detection

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

Scanner Motor startup failure detection

If the scanner does not start although a specified period of time has elapsed after the Scanner Motor is driven, an error code is notified.

Error Code

E100: Scanner area failure

- E100-0000: Yellow scanner area failure
- E100-0001: Magenta scanner area failure
- E100-0002: Cyan scanner area failure
- E100-0003: Black scanner area failure

E110: Scanner Motor startup failure

• E110-0000: Primary Pseudo BD correction failure

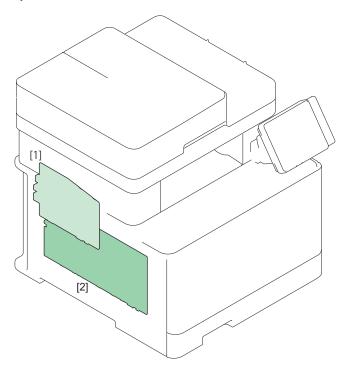
Controller System



Configuration/Function

Description

This product is mainly controlled by the main and DC controllers.

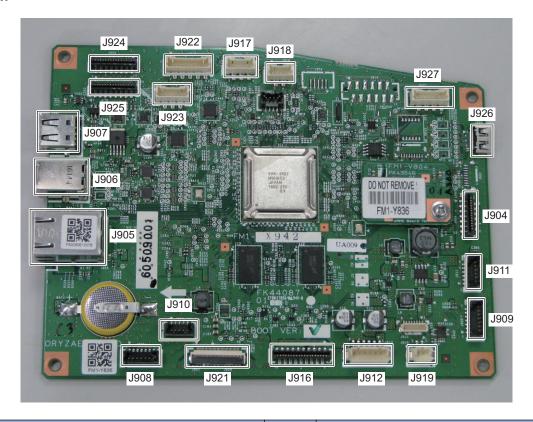


No.	Parts name	Role	
[1]		Provides controls on the system, image processing, reader / ADF, FAX and network and maintain various setting values.	
[2]	Engine Controller PCB *1	Provides controls on printer, laser, high-voltage PCBs, I/O, etc. and maintain setting values.	

^{*1:}The engine controller PCB consists of it by a high voltage power supply circuit and a DC controller circuit.



Description



Jack	Function	Jack	Function
J904	Wireless LAN PCB I/F	J917	Off Hook PCB I/F
J905	LAN I/F	J918	USB 2.0 Relay PCB I/F
J906	USB TypeB	J919	Speaker
J907	USB TypeA	J921	Engine Controller PCB I/F
J908	CC-VI (OP)	J922	ADF Motor I/F
J909	Serial No PCB I/F	J923	Reader Motor I/F
J910	New card reader (OP)	J924	FFC Relay PCB I/F
J911	Memory PCB I/F	J925	FFC Relay PCB I/F (1PDS)
J912	Engine Controller PCB I/F	J926	5-inch Touch Panel
J914	5-line Control Panel PCB I/F	J927	5-inch Touch Panel PCB I/F
J916	NCU PCB I/F		



Motor Control

Overview

This machine uses motors for paper feed and image formation.

Description

Name	Symbol	Drive parts	Failure Detection
Pickup Motor	M1	Multi-purpose Tray Pickup Roller, Multi-purpose Tray Feed Roller, Cassette Pickup Roller, Cassette Feed Roller, Registration Roller, Duplex Feed Roller*, Duplex Repickup Roller*, and lifting up the cassette	
Drum Motor	M2	Photosensitive Drum and ITB	Yes
Developing Mo- tor M3 Developing Roller and engagement/disengagement of the Developing Roller		Yes	
Fixing Motor	Fixing Motor M4 Fixing Roller, Delivery Roller, Duplex Reverse Roller*, and engagement/disengagement of the Pressure Film/Fixing Roller/Fixing Film Pressure		Yes

Name	Symbol	Drive parts	Failure Detection
Scanner Motor	M10	Scanner Mirror	None

^{*:} Duplex models only



Door Open Detection

Overview

This machine uses the Door Open Sensor to detect whether the door is opened or closed.

Description

Sensor name Symbol		Role		
Front Cover Sensor	SW1	To detect whether the Front Cover is opened or closed.		
Rear Cover Sensor (Inside the Engine Controller PCB)		To detect whether the Rear Cover is opened or closed.		

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



Fan Control

Overview

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

Description

Name	Sym- bol	Cooling area	Туре	Speed
Power Supply Fan	FM1	Area around Low Voltage Power Supply		Variable (full speed/middle speed/low speed/ very low speed)
Cartridge Fan	FM2	Around the cartridge and Fixing Assembly	Suction	Variable (full speed/half speed)



Low-voltage Power Supply Control

Overview

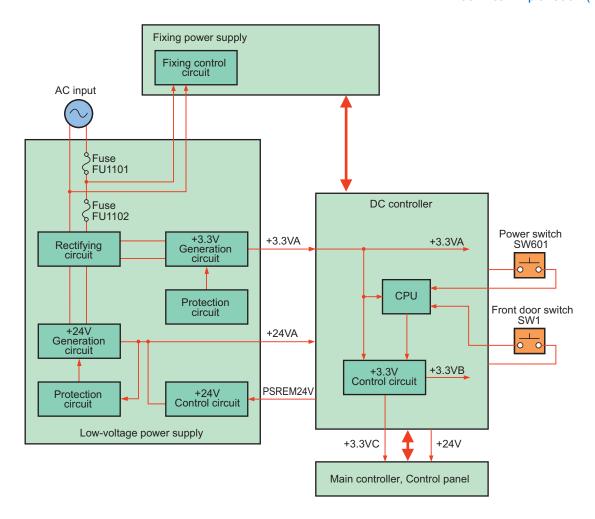
This circuit converts the AC voltage to DC power supply and provides it to each load.

Description

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

- · Low voltage power supply: Generates the DC power supply needed inside the printer.
- · Fixing power supply: Provides AC power supply to the low voltage power supply and controls the fixing heater temperature 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.

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.

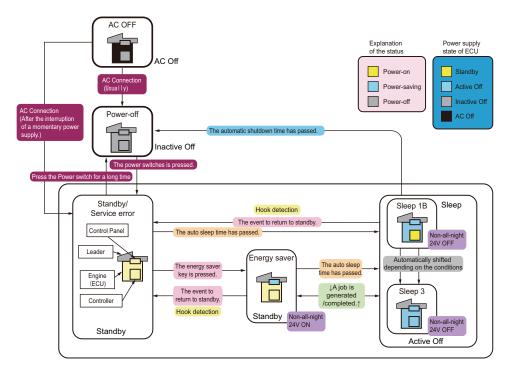
NOTE:

Leave the machine as it is for approx. 5 minutes after disconnecting the cord from the inlet. There are cases where electric charge remains in the electrolytic capacitor on the primary side of the Power Supply PCB, and time for releasing the electric charge is needed.



Overview

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



Engine (ECU) Power state	CNT All-night 3.3 V	CNT Non-all-night 24 V	ECU CPU power supply	Remarks
Standby	ON	ON	ON	Standby/Energy saving
Active Off	ON	OFF	ON	Sleep 1B/Sleep 3
Inactive Off	OFF	OFF	ON	AC applied

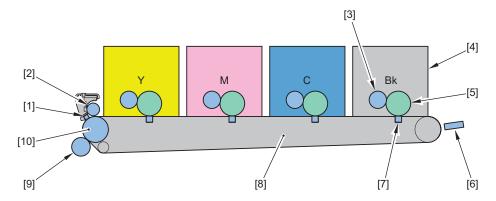
The low voltage power supply stops supplying power from the +24V generation circuit when it receives a power-saving transition mode signal (REM24V) from the DC Controller.

Image Formation System



Major Components

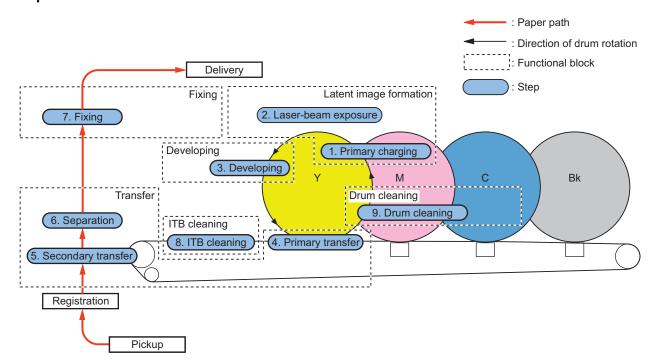
Description



No.	Name	No.	Name
[1]	ITB Cleaning Brush	[6]	Color Displacement/Density Sensor
[2]	ITB Cleaning Roller	[7]	Primary Transfer Pad
[3]	Developing Cylinder	[8]	ITB Unit
[4]	Toner Cartridge	[9]	Secondary Transfer Roller
[5]	Photosensitive Drum	[10]	ITB Drive Roller

Image Formation Process

Description



High Voltage Power Supply Control

Description

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

· Static Eliminator

- Primary Charging Roller (inside the cartridge)
- Developing Cylinder (inside the cartridge)
- · Primary Transfer Pad
- · Secondary Transfer Roller
- · ITB Cleaning Assembly

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

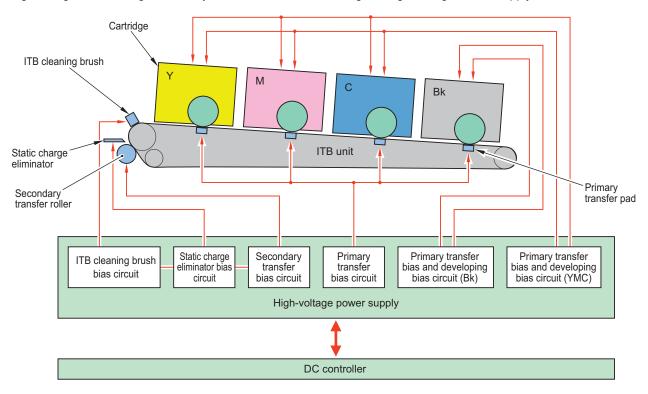
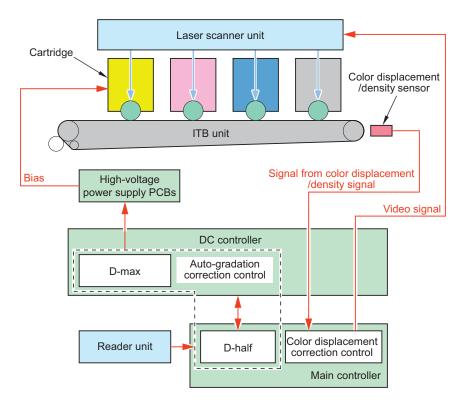


Image Stabilization Control

Overview

Image stabilization control is performed in order to prevent image failure due to change of the environment, deterioration of the Photosensitive Drum, deterioration of the toner, etc. and to ensure stable printing.

- Image Density Correction Control (D-max control)
- Image Gradation Correction Control (D-half control)
- · Color Displacement Correction Control
- · Auto Gradation Adjustment Control



Execution Condition/Timing

Correction controls are performed under the following conditions:

Execution timing	D-max	D-half	Color displacement correction
At power-on	Yes	Yes	Yes
When the Toner Cartridge is replaced	Yes	Yes	Yes
When the environment (temperature) changes	Yes	Yes	Yes
After printing the specified number of pages	Yes	Yes	Yes
After the specific period of time has passed	Yes	Yes	Yes
When recovering from sleep mode (8 hours or more)	Yes	Yes	-
When [Full Adjust] is executed	Yes	Yes	-
When [Quick Adjust] is executed	Yes	Yes	-
When [Adjust Copy Image] is executed	Yes	Yes	-
When [Correct Print Color Mismatch] is executed	-	-	Yes

Description

Image Density Correction Control (D-max control)

It is performed to stabilize the image density of the printer.

The DC Controller corrects the primary charging bias and developing bias values.

Image Gradation Correction Control (D-half control)

It is performed to stabilize the image gradation of the printer.

The Main Controller performs gradation adjustment based on the measurement results of the halftone density performed by the DC Controller.

Color Displacement Correction Control

Color displacement that occurs due to the individual differences of the Laser Scanner Unit and Toner Cartridge is corrected. The Main Controller performs the following color displacement corrections by controlling the video signal based on the color displacement information measured by the DC Controller.

- · Write-start position in the horizontal scanning direction
- · Horizontal scanning magnification ratio
- · Write-start position in the vertical scanning direction

Auto Gradation Adjustment Control

It is performed to stabilize the gradation density characteristics of the image.

Item	Description	Test pattern	
		Number of output sheets	Туре
Full adjustment	Gradation adjustment is performed by outputting a test pattern and reading the gradation density using the reader.	2 sheets	First sheet: For error diffusion Second sheet: For multivalue gradation
Quick Adjust	Gradation adjustment is performed by D-half Control without outputting a test pattern.	-	-
Adjust Copy Image	Gradation adjustment mainly of copied images is performed by outputting a test pattern and reading its gradation density using the reader.	1 sheet	For error diffusion

Additional Functions Mode/Menu

- Menu > Adjustment/Maintenance > Adjust Image Quality > Auto Adjust Gradation > Quick Adjust
- Menu > Adjustment/Maintenance > Adjust Image Quality > Auto Adjust Gradation > Full Adjust
- Menu > Adjustment/Maintenance > Adjust Image Quality > Auto Adjust Gradation > Adjust Copy Image
- Menu > Adjustment/Maintenance > Adjust Image Quality > Correct Print Color Mismatch



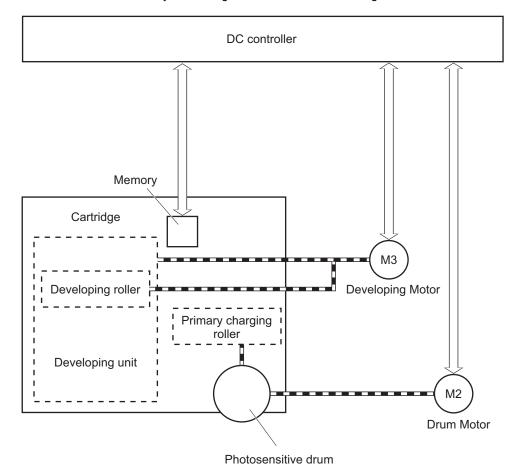
Description

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

There are 4 types: yellow, magenta, cyan, and black, and all of them have the same structure.

The cartridge of this machine consists of the Photosensitive Drum, Developing Unit, Primary Charging Roller, Memory, etc. The DC Controller rotates the Drum Motor, and drives the Primary Charging Roller. It also rotates the Developing Motor, and drives the Developing Roller.

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



Memory

Description

This machine detects/records the cartridge usage status, etc. by reading/writing data stored in the memory by the DC Controller. If the memory cannot be detected, "Cartridge Communication Error. A counterfeit or non-Canon cartridge may be in use." is displayed.

■ Cartridge Detection

Execution Condition/Timing

- · At power-on
- · When the Front Cover is closed

Description

The DC Controller detects whether a cartridge is installed according to the change in primary charging current. The DC Controller notifies the Main Controller of the absence of a cartridge if it judges there is no cartridge.

Display on the Control Panel:

Toner Cartridge Not Inserted

■ Cartridge Life Detection

Description

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

Upon reception of the notification the Main Controller displays a warning or a message that the cartridge has reached the end of its life.

	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 cartridge.	End of Cartridge Lifetime

^{*1:} Select the following to check the remaining toner level.

- Status Monitor > Device Information > Cartridge Information
- *2: Whether to display or hide warnings can be specified in the menu.
- *3: The threshold value to display a warning can be specified in the menu.
- *4: The operation when the cartridge has reached the end of life can be specified in service mode.
- *5: The reference value of cartridge life (Photosensitive Drum, Developing Unit, and Waste Toner) can be specified in service mode.

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
- Setting of the reference values for replacement of the Photosensitive Drum, Developing Assembly, and Waste Toner (Y/M/C)

COPIER > OPTION > FNC-SW > CRGLF-CL

 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

- Setting of whether to display or hide warnings
 Menu > Preferences > Display Settings > Display Timing for Cartridge Prep. Notif.
- Setting of the threshold value to display a warning
 Menu > Preferences > Display Settings > Display Timing for Cartridge Prep. Notif. > Custom

■ Developing Cylinder Engagement/Disengagement Control

Overview

The DC Controller engages/disengages the Developing Cylinder in the Toner Cartridge with/from the Photosensitive Drum.

Execution Condition/Timing

The Developing Cylinder is engaged or disengaged depending on the state of this machine.

State of this machine	Y/M/C	Bk	
Power Supply Off/Standby	Disengagement		
B&W Print	Disengagement	Engagement	
Full Color Print	Engagement		

Description

In accordance with the specified print mode (full color or B&W), only the Developing Cylinder(s) necessary for the mode is engaged with the Photosensitive Drum.

The Developing Cylinders are engaged only when needed, and this prevents deterioration of the Photosensitive Drum and ensures the maximum life.

For engagement/disengagement of the Developing Cylinders, the DC Controller drives the Developing Disengagement Solenoid (Bk) (SL2)/Developing Disengagement Solenoid (Color) (SL3) while the Developing Motor (M3) is driving to change the orientation of the Engagement/Disengagement Cam.

The DC Controller detects the current state using the Developing Disengagement Switch (Bk) (SW3)/Developing Disengagement Switch (Color) (SW2), and determines the state (engaged or disengaged) of the Developing Cylinders on the basis of the amount of rotation of the Developing Motor after the Developing Disengagement Solenoid starts to be driven.

Error Code

• E015-0000: Error in Developing Disengagement Motor

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.

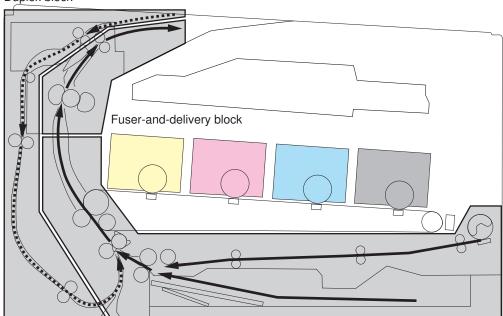
Description

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
- Fixing/Delivery: From the Fixing Assembly to the delivery outlet
- Duplex*: From the Duplex Reverse Assembly to the Duplex Re-pickup Assembly
- *: Duplex models only



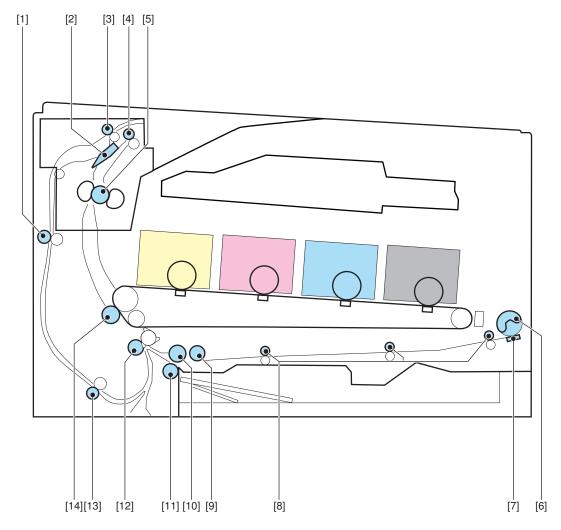
Duplex block



Pickup-and-feed block

Parts Configuration

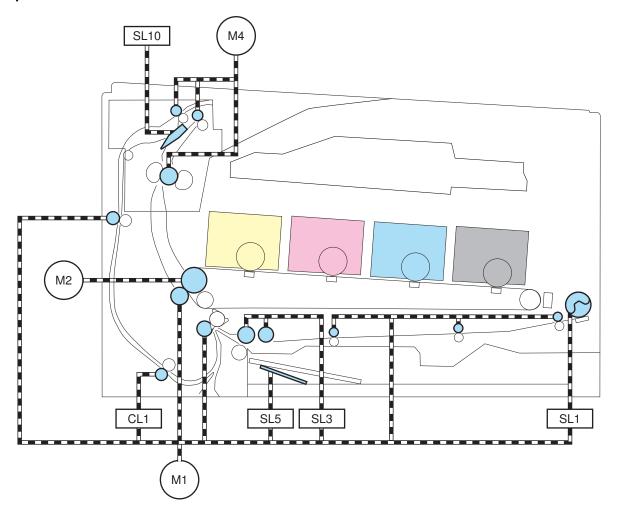
Description



No.	Name	No.	Name
[1]	Duplex Feed Roller	[8]	Multi-purpose Tray Feed Roller
[2]	Duplex Flapper	[9]	Pickup Roller
[3]	Duplex Reverse Roller	[10]	Feed Roller
[4]	Delivery Roller	[11]	Separation Roller
[5]	Fixing Roller	[12]	Registration Roller
[6]	Multi-purpose Tray Pickup Roller	[13]	Duplex Re-pickup Roller
[7]	Multi-purpose Tray Separation Pad	[14]	Secondary Transfer Roller

Drive Configuration

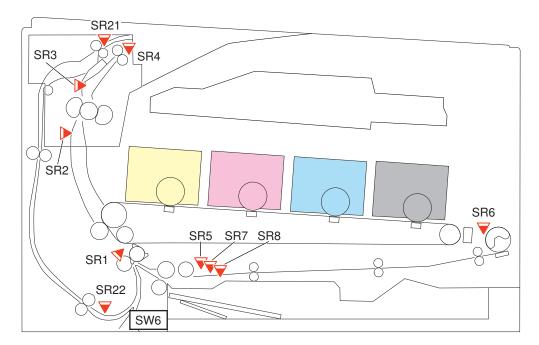
Description



Sym- bol	Name	Sym- bol	Name
M1	Pickup Motor	SL1	Multi-purpose Tray Pickup Solenoid
M2	Drum Motor	SL3	Cassette Pickup Solenoid
M4	Fixing Motor	SL5	Lifter Solenoid
CL1	Duplex Re-pickup Clutch*	SL10	Duplex Reverse Solenoid*

^{*:} Duplex models only





Sym- bol	Name	Symbol	Name
SW6	Cassette Switch	SR6	Multi-purpose Tray Paper Sensor
SR1	Registration Sensor	SR7	Cassette Paper Surface Sensor
SR2	Loop Sensor	SR8	Lifter Sensor
SR3	Fixing Delivery Sensor	SR21	Duplex Reverse Sensor*
SR4	Delivery Tray Sensor	SR22	Duplex Re-pickup Sensor*
SR5	Cassette Paper Sensor		

^{*:} Duplex models only



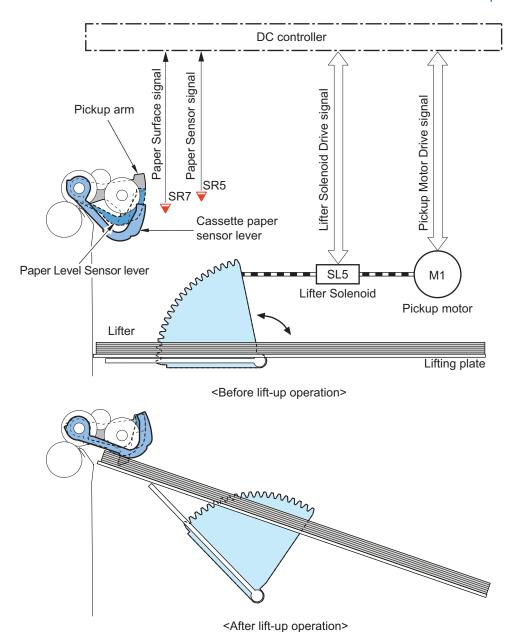
Description

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

The Lifting Plate is lifted by driving the Pickup Motor (M1) and Lifter Solenoid (SL5).

When the paper surface reaches the position of the Pickup Roller, the Cassette Paper Surface Sensor (SR7) is turned ON to detect that the paper has reached the pickup position.

When the Lifting Plate is rising, the Pickup Motor (M1) and Lifter Solenoid (SL5) are controlled to keep the paper surface steady so that pickup can be performed stably.



There are 2 types of lift-up operation: initial lift-up operation and lift-up operation during printing.

- 1. Initial lift-up operation
 - When the power is turned ON or a cassette is inserted, the Pickup Motor (M1) and Lifter Solenoid (SL5) are driven to lift up the Lifting Plate to the position for detection if the Cassette Paper Surface Sensor (SR7) does not detect the paper surface.
- 2. Lift-up operation during printing
 - This operation is performed if the paper surface is lowered a certain amount by the pickup operation. If the Cassette Paper Surface Sensor (SR7) detects that there is no paper during printing, the Pickup Motor (M1) and Lifter Solenoid (SL5) are driven to lift up the Lifting Plate to the pickup position.

Error Code

- E015-0001: Cassette 1 lift-up error
- E015-0002: Cassette 2 lift-up error



Cassette Detection

Description

Presence of the cassette is detected using the Cassette Switch (SW6).

The cassette detection flag of the cassette is detected by the Cassette Detection Switch in the host machine.



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

The Pickup Arm is lifted and lowered to feed the paper by rotating the Pickup Cam with the Pickup Solenoid (SL3).

Double Feed Prevention Mechanism

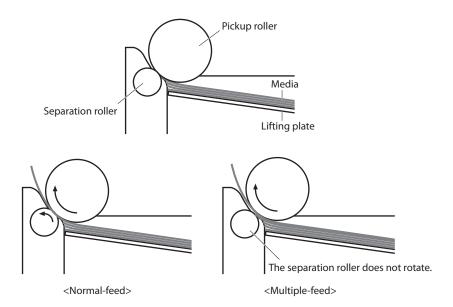
This machine employs the Separation Roller method for double feed prevention.

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.





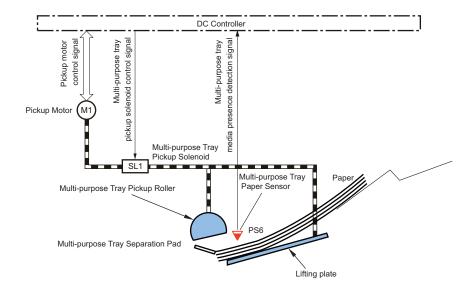
Multi-purpose Tray Pickup Control

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 Pickup Motor (M1).
- 2. When the DC Controller turns ON the Multi-purpose Tray Pickup Solenoid (SL1), the Multi-purpose Tray Pickup Roller rotates and paper is picked up.
- 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 Multi-purpose Tray is detected by the Multi-purpose Tray Paper Sensor (PS6), and printing is not
 performed if there is no paper.



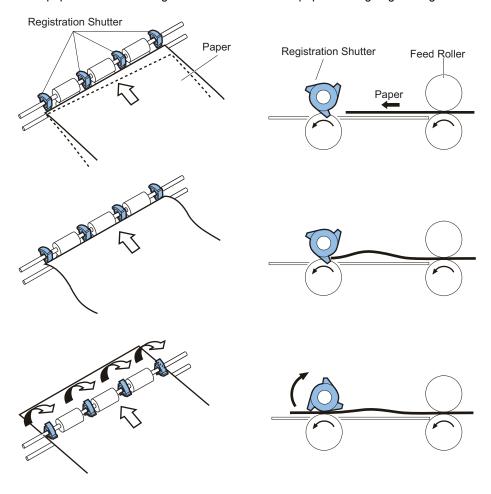
Skew Correction

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.

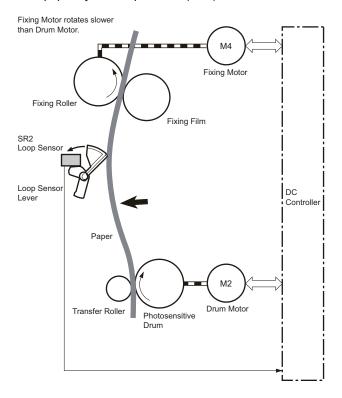


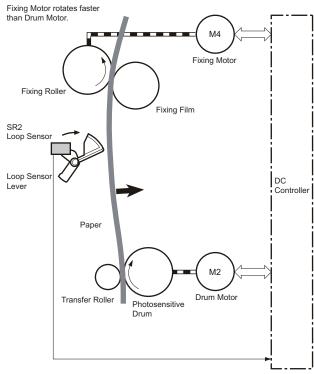


Arch control keeps the appropriate slack on paper to prevent image failure and feed failure.

- If the rotation speed of the Fixing Motor is slower than the rotation speed of the Drum Motor, the slack on the paper becomes larger.
- If the rotation speed of the Fixing Motor is faster than the rotation speed of the Drum Motor, the slack on the paper becomes smaller.

The DC Controller detects the slack on paper by the Loop Sensor (SR2), and controls the rotation speed of the Fixing Motor.

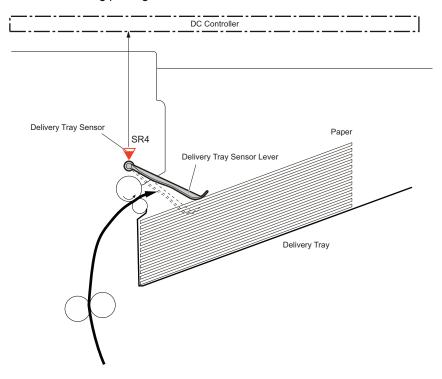






The DC Controller detects paper full in the Delivery Tray using the Delivery Tray Sensor (SR4).

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

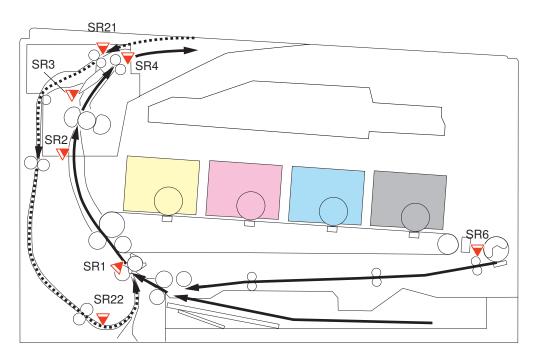




Description

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.

Simplex paper path
Duplex paper path



Occurrence of a jam is judged by whether paper is in the sensor area at the timings stored in the DC Controller. When the DC Controller judges that a jam has occurred, the printing operation is stopped and the jam is notified to the Main Controller at the same time.

The following shows the jams that are detected.

Jam name	Details
Pickup delay jam 1	When the Registration Sensor (SR5) fails to detect the leading edge of paper after the start of image formation and before the start of re-pickup
Pickup delay jam 2	When the Multi-purpose Tray Paper Sensor (SR6) fails to detect the leading edge of paper within a specified period of time after the start of pickup from the Multi-purpose Tray
Pickup Stationary Jam	When the Registration Sensor (SR5) fails to detect the trailing edge of paper within a specified period of time after the start of re-pickup
Fixing delivery delay jam	When the Fixing Delivery Sensor (SR3) fails to detect the leading edge of paper within a specified period of time after the start of re-pickup
Fixing delivery stationary jam	When the Fixing Delivery Sensor (SR3) fails to detect the trailing edge of paper within a specified period of time after the Registration Sensor (SR5) detects the trailing edge of paper
Internal stationary jam	When one of the following sensors detects presence of paper at power-on, door close, or before/after print operation Registration Sensor (SR5) Fixing Delivery Sensor (SR3) Delivery Sensor (SR4)
Door Open Jam	When one of the sensors detects presence of paper when door open is detected during printing
Wrapping jam	When the Fixing Delivery Sensor (SR3) turns OFF after the Fixing Delivery Sensor (SR3) detects the trailing edge of paper and before detection of a fixing delivery stationary jam is started
Duplex Re-pickup Assembly Jam	At 2-sided print, the paper was reversed, but the Duplex Re-pickup Sensor (SR22) failed to detect the leading edge of paper within a specified period of time.
Delivery Delay Jam	When the Delivery Sensor (SR4) fails to detect the leading edge of paper within a specified period of time after the Fixing Delivery Sensor (SR3) detects the trailing edge of paper
Delivery Stationary Jam	When the Delivery Sensor (SR4) fails to detect the trailing edge of paper within a specified period of time after the Delivery Sensor (SR4) detects the leading edge of paper

Fixing System



Functional Configuration

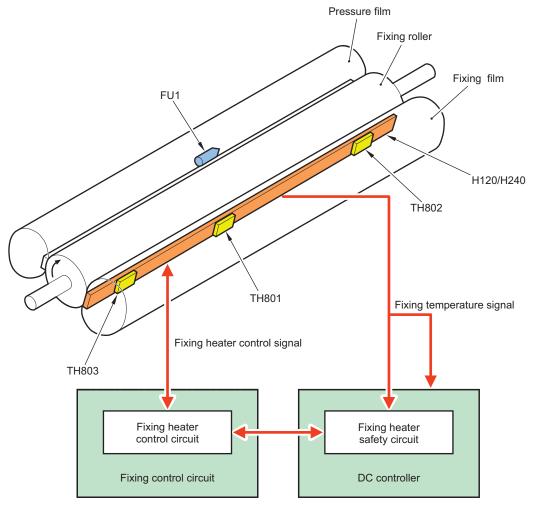
Overview

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
H120	Fixing Heater (120 V)
H240	Fixing Heater (240 V)
TH801	Main Thermistor
TH802	Sub Thermistor 1
TH803	Sub Thermistor 2
FU1	Temperature Fuse

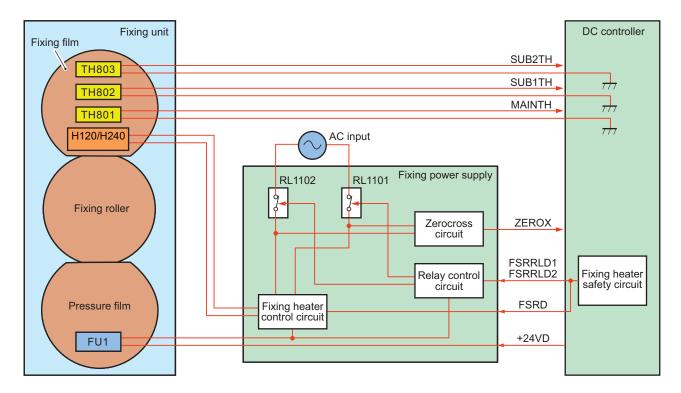
Temperature control of the Fixing Assembly which consists of these parts is performed by the Fixing Heater control circuit and Fixing Heater safety circuit according to the command of the DC Controller.



Fixing Temperature Control

Overview

This control circuit controls the temperature such that the Fixing Heater reaches the target temperature.



The DC Controller 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 three protection functions to prevent abnormal temperature rising in the Fixing Heater.

- · DC Controller
- · Fixing Heater safety circuit
- · Temperature Fuse

The following describes the details.

DC Controller

The DC Controller 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.

Temperature Fuse

If the temperature of the Fixing Heater rises abnormally and the temperature of the Fixing Fuse exceeds the specified temperature, the Temperature Fuse opens and the power supply to the heater turns OFF.



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 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.

Error Code

E000: Startup failure

• E000-0000: Fixing Assembly startup failure

E001: Abnormal high temperature failure

• E001-0001: Abnormal high temperature of Fixing Assembly

E003: Abnormal low temperature failure

• E003-0001: Abnormal low temperature of Fixing Assembly



Technical Explanation (System)

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Monitoring Function	
(imageWARE Remote)	69

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

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.

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:

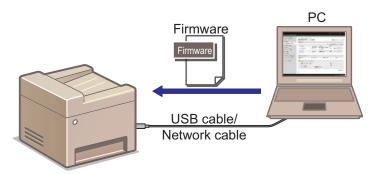
Firmware to upgrade			
General firmware	Specified firmware		
No message	No message		
Message displayed	Message displayed		
	General firmware No message		



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

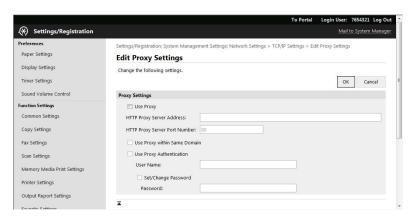
In order to perform version upgrade of the device via Internet, the following conditions must be met.

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.



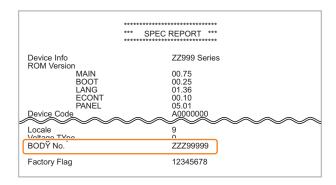
The serial number of the host machine should be shown on the Main Controller PCB.

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

Check if the serial number (3 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	Wait until the job is completed.
		executed:	2. Cancel the job.
2	Cannot check the firmware version. (Server communication error.)	Network error	 Check whether the device can be connected to the ex- ternal 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-	, , ,	Update the firmware again using UST.
	BLE IP ADRESS IP address of the machine	the firmware has	
	PRESS STOP KEY TO EXIT	ended in failure:	
5	***DOWNLOAD MODE*** FAILED TO UPDATE		
6	***DOWNLOAD MODE*** UPDATE IS COM-	If the update of the	-
	PLETE	firmware is suc-	
		cessful	

Version Upgrade Using USB

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

■ 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

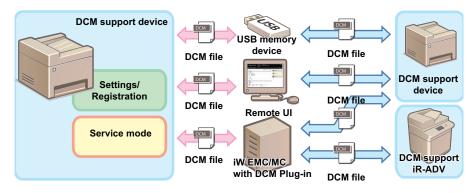
The DCM file is exported to a USB flash drive or PC local disk from the Control Panel or remote UI.

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		i	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	USB flash drive
Service mode	Control panel	No	No	Yes	USB flash drive / Storage in the host machine
	Remote UI	No	No	Yes	PC local disk

■ 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 61.

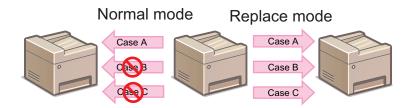
Model	Serial number	Import process
Same	Same	Items corresponding to Case A are imported.*4
Same	Different*5	Items corresponding to Case B are imported.*4
Different	Different*5	Items corresponding to Case C are imported.*6
Different	Same	The file is judged to be invalid, and the process ends with an error.

■ 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" on page 61.
- *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 61 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)

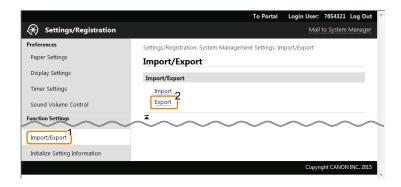
Service mode setting information can be exported from the [System Management Settings] menu by setting the following service mode setting value to "1".

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

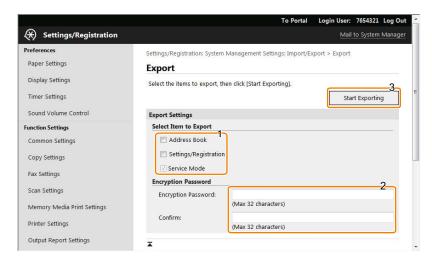
NOTE:

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.

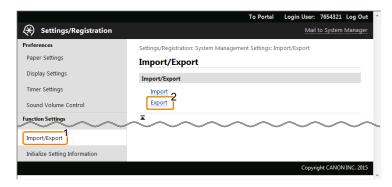
- 1. Enter service mode, and set the following item to "1".
 - COPIER > OPTION > USER > SMD-EXPT

NOTE:

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

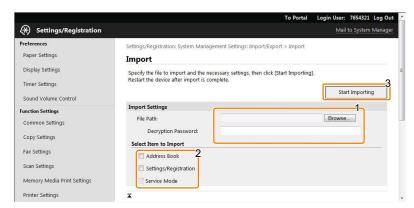
2. Exit service mode, start remote UI, log in as a system administrator, and then select the following item:

• [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.

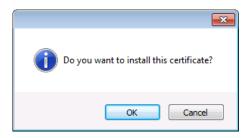
Address Book

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 > 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 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.

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	-	-

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
COPIER	ADJUST	FEED-ADJ	ADJ-C2XR	Yes	-	-
COPIER	ADJUST	VIFADJ	DEV-HV-Y	Yes	-	-
COPIER	ADJUST	VIFADJ	DEV-HV-M	Yes	-	-
COPIER	ADJUST	VIFADJ	DEV-HV-C	Yes	-	_
COPIER	ADJUST	VIFADJ	DEV-HV-K	Yes	-	_
COPIER	ADJUST	VIFADJ	TR1-HV-Y	Yes	-	-
COPIER	ADJUST	VIFADJ	TR1-HV-M	Yes	-	-
COPIER	ADJUST	VIFADJ	TR1-HV-C	Yes	-	-
COPIER	ADJUST	VIFADJ	TR1-HV-K	Yes	-	-
COPIER	ADJUST	VIFADJ	TR2SF-HV	Yes	-	-
COPIER	ADJUST	VIFADJ	TR2BK-HV	Yes	_	_
COPIER	ADJUST	VIFADJ	ICL-HV	Yes	_	_
COPIER	ADJUST	VIFADJ	FU-TMP	Yes	_	-
COPIER	ADJUST	SCNR	SUB-S-Y0	Yes	_	-
COPIER	ADJUST	SCNR	SUB-S-M0	Yes	_	-
COPIER	ADJUST	SCNR	SUB-S-C0	Yes	_	_
COPIER	ADJUST	SCNR	SUB-S-K0	Yes	_	_
COPIER	ADJUST	SCNR	SUB-S-Y1	Yes	_	_
COPIER	ADJUST	SCNR	SUB-S-M1	Yes	_	_
COPIER	ADJUST	SCNR	SUB-S-M1	Yes	_	_
COPIER	ADJUST	SCNR	SUB-S-K1	Yes	_	
COPIER	ADJUST	SCNR	SUB-S-Y2	Yes		
COPIER	ADJUST	SCNR	SUB-S-M2	Yes	-	-
COPIER	ADJUST	SCNR	SUB-S-M2	Yes	-	-
COPIER	ADJUST	SCNR	SUB-S-K2	Yes	-	-
COPIER	ADJUST	SCNR	MAI-S-Y0	Yes		-
COPIER	ADJUST	SCNR	MAI-S-10	Yes	-	-
COPIER	1	SCNR	MAI-S-IVIO		-	-
	ADJUST			Yes	-	-
COPIER	ADJUST ADJUST	SCNR	MAI-S-K0	Yes	-	-
COPIER		SCNR	MAI-S-Y1	Yes	-	-
COPIER	ADJUST	SCNR	MAI-S-M1	Yes	-	-
COPIER	ADJUST	SCNR	MAI-S-C1	Yes	-	-
COPIER	ADJUST	SCNR	MAI-S-K1	Yes	-	-
COPIER	ADJUST	SCNR	MAI-S-Y2	Yes	-	-
COPIER	ADJUST	SCNR	MAI-S-M2	Yes	-	-
COPIER	ADJUST	SCNR	MAI-S-C2	Yes	-	-
COPIER	ADJUST	SCNR	MAI-S-K2	Yes	-	-
COPIER	FUNCTION	VIFFNC	SMEAR-PV	Yes	-	-
COPIER	FUNCTION	VIFFNC	FEED-IMP	Yes	-	-
COPIER	FUNCTION	VIFFNC	FOG-PV	Yes	-	-
COPIER	FUNCTION	VIFFNC	ICL-IMP	Yes	-	-
COPIER	FUNCTION	SPLMAN	SPL14159	Yes	Yes	Yes
COPIER	FUNCTION	SPLMAN	SPL37510	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 *1	Yes	-	-
COPIER	FUNCTION	SPLMAN	SPL00171	Yes	Yes	Yes

^{*1.} FAX model only

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
COPIER	FUNCTION	SPLMAN	SPL80100	Yes	Yes	Yes
COPIER	FUNCTION	SPLMAN	SPL84194	Yes	Yes	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	-	-
COPIER	OPTION	BODY	NS-PLN	Yes	-	-
COPIER	OPTION	BODY	NS-LGN	Yes	-	-
COPIER	OPTION	BODY	SLPMODE	Yes	Yes	Yes
COPIER	OPTION	BODY	SDTM-DSP	Yes	Yes	Yes
COPIER	OPTION	FNC-SW	IMGCNTPR	Yes	Yes	Yes
COPIER	OPTION	FNC-SW	LCDSFLG	Yes	Yes	Yes
COPIER	OPTION	FNC-SW	CRG-PROC	Yes	Yes	-
COPIER	OPTION	FNC-SW	CRGLF-K	Yes	Yes	-
COPIER	OPTION	FNC-SW	CRGLF-CL	Yes	Yes	-
COPIER	OPTION	DSPLY-SW	CRGLW-LV	Yes	Yes	Yes
COPIER	OPTION	IMG-MCON	TMIC-BK	Yes	-	-
COPIER	OPTION	IMG-MCON	TMIC-CMY	Yes	-	-
COPIER	OPTION	USER	COUNTER1	Yes	-	-
COPIER	OPTION	USER	COUNTER2	Yes	_	_
COPIER	OPTION	USER	COUNTER3	Yes	_	_
COPIER	OPTION	USER	COUNTER4	Yes	_	_
COPIER	OPTION	USER	COUNTER5	Yes	-	-
COPIER	OPTION	USER	COUNTER6	Yes	_	_
COPIER	OPTION	USER	CNT-SW	Yes	_	_
COPIER	OPTION	USER	CTCHKDSP	Yes	_	_
COPIER	OPTION	USER	SMD-EXPT	Yes	_	_
COPIER	OPTION	USER	ACC-SLP	Yes	Yes	Yes
Fax	SSSW	SW01 *1	ACC-GEI	Yes	-	-
			-			
Fax	SSSW	SW02 *1	-	Yes	-	-
Fax	SSSW	SW03 *1	-	Yes	-	-
Fax	SSSW	SW04 *1	-	Yes	-	-
Fax	SSSW	SW05 *1	-	Yes	-	-
Fax	SSSW	SW06 *1	-	Yes	-	-
Fax	SSSW	SW07 *1	-	Yes	-	-
Fax	SSSW	SW08 *1	-	Yes	-	-
Fax	SSSW	SW09 *1	-	Yes	-	-
Fax	SSSW	SW10 *1	-	Yes	_	_
Fax	SSSW	SW10 SW11 *1	<u> </u>	Yes	_	_
						-
Fax	SSSW	SW12 *1	-	Yes	-	-
Fax	SSSW	SW13 *1	-	Yes	-	-
Fax	SSSW	SW14 *1	-	Yes	-	-
Fax	SSSW	SW15 *1	-	Yes	-	-
Fax	SSSW	SW16 *1	-	Yes	-	-
Fax	SSSW	SW17 *1	-	Yes	-	-
Fax	SSSW	SW18 *1	-	Yes	-	-
Fax	SSSW	SW19 *1	-	Yes	_	-
Fax	SSSW	SW20 *1	_	Yes	_	_
Fax	SSSW	SW20 *		Yes		_
ı ax	33344	SVVZT '	_	169	_	_

^{*1.} FAX model only

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
Fax	SSSW	SW22 *1	-	Yes	-	-
Fax	SSSW	SW23 *1	-	Yes	-	-
Fax	SSSW	SW24 *1	-	Yes	-	-
Fax	SSSW	SW25 *1	-	Yes	-	-
Fax	SSSW	SW26 *1	-	Yes	-	-
Fax	SSSW	SW27 *1	-	Yes	-	-
Fax	SSSW	SW28 *1	-	Yes	-	-
Fax	SSSW	SW29 *1	-	Yes	-	-
Fax	SSSW	SW30 *1	-	Yes	-	-
Fax	SSSW	SW31 *1	-	Yes	-	-
Fax	SSSW	SW32 *1	-	Yes	-	-
Fax	MENU	005 *1	-	Yes	-	-
Fax	MENU	006 *1	-	Yes	-	-
Fax	MENU	007 *1	-	Yes	-	-
Fax	MENU	008 *1	-	Yes	-	-
Fax	MENU	009 *1	-	Yes	-	-
Fax	MENU	010 *1	-	Yes	-	-
Fax	NUM	002 *1	-	Yes	-	-
Fax	NUM	003 *1	-	Yes	-	-
Fax	NUM	004 *1	-	Yes	-	-
Fax	NUM	005 *1	-	Yes	-	-
Fax	NUM	006 *1	-	Yes	-	-
Fax	NUM	008 *1	-	Yes	-	-
Fax	NUM	010 *1	-	Yes	-	-
Fax	NUM	011 *1	-	Yes	-	-
Fax	NUM	012 *1	-	Yes	-	-
Fax	NUM	013 *1	-	Yes	-	-
Fax	NUM	015 *1	-	Yes	-	-
Fax	NUM	016 *1	-	Yes	-	-
Fax	NUM	017 *1	-	Yes	-	-
Fax	NUM	018 *1	-	Yes	-	-
Fax	NUM	019 *1	-	Yes	-	-
Fax	NUM	020 *1	-	Yes	-	-
Fax	NUM	021 *1	-	Yes	-	-
Fax	NUM	022 *1	-	Yes	-	-
Fax	NUM	023 *1	-	Yes	-	-
Fax	NUM	024 *1	-	Yes	-	-
Fax	NUM	025 *1	-	Yes	-	-
Fax	NUM	026 *1	-	Yes	-	-
Fax	NUM	027 *1	-	Yes	-	-
Fax	NUM	029 *1	-	Yes	-	-
Fax	NUM	049 *1	-	Yes	_	_
Fax	NUM	051 *1	-	Yes	_	_
Fax	NUM	053 *1	-	Yes	_	_
Fax	NUM	054 *1	-	Yes	_	_
Fax	NCU	TONE	001 *1	Yes	_	_
Fax	NCU	TONE	001 *1	Yes	_	_
. 4/1		10112	002	100		

^{*1.} FAX model only

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
Fax	NCU	PULSE	FORM *1	Yes	-	-
Fax	NCU	PULSE	001 *1	Yes	-	-
Fax	NCU	PULSE	002 *1	Yes	-	-
Fax	NCU	PULSE	003 *1	Yes	-	-
Fax	NCU	PULSE	004 *1	Yes	-	-
Fax	NCU	DIALTONE	BIT *1	Yes	-	-
Fax	NCU	DIALTONE	001 *1	Yes	-	-
Fax	NCU	DIALTONE	002 *1	Yes	-	-
Fax	NCU	DIALTONE	003 *1	Yes	-	-
Fax	NCU	DIALTONE	004 *1	Yes	-	-
Fax	NCU	DIALTONE	005 *1	Yes	-	-
Fax	NCU	DIALTONE	006 *1	Yes	-	-
Fax	NCU	DIALTONE	007 *1	Yes	-	-
Fax	NCU	DIALTONE	008 *1	Yes	-	-
Fax	NCU	2ND DLTN	BIT *1	Yes	-	-
Fax	NCU	2ND DLTN	001 *1	Yes	-	-
Fax	NCU	2ND DLTN	002 *1	Yes	_	_
Fax	NCU	2ND DLTN	003 *1	Yes	_	_
Fax	NCU	2ND DLTN	004 *1	Yes	_	_
Fax	NCU	2ND DLTN	005 *1	Yes	_	_
Fax	NCU	2ND DLTN	006 *1	Yes	_	_
Fax	NCU	2ND DLTN	007 *1	Yes	_	_
Fax	NCU	2ND DLTN	008 *1	Yes	_	_
Fax	NCU	BUSTONE0	BIT *1	Yes	_	_
Fax	NCU	BUSTONE0	001 *1	Yes	_	_
Fax	NCU	BUSTONE0	002 *1	Yes	_	_
Fax	NCU	BUSTONE0	003 *1	Yes	_	_
Fax	NCU	BUSTONE0	004 *1	Yes	_	_
Fax	NCU	BUSTONE0	005 *1	Yes	_	_
Fax	NCU	BUSTONE0	006 *1	Yes	_	_
Fax	NCU	BUSTONE0	007 *1	Yes	_	_
Fax	NCU	BUSTONE0	007 *1	Yes	-	_
Fax	NCU	BUSTONE1	BIT *1	Yes		-
Fax	NCU	BUSTONE1	001 *1	Yes	-	_
	NCU	BUSTONE1	001 *	Yes		
Fax Fax	NCU	BUSTONE1	002 '	Yes	-	-
Fax	NCU	BUSTONE1	1	Yes	-	-
	NCU	BUSTONE1	004 *1	Yes		
Fax	NCU		005 *1		-	-
Fax		BUSTONE1	006 *1	Yes	-	-
Fax	NCU	BUSTONE1	007 *1	Yes	-	-
Fax	NCU	BUSTONE1	008 *1	Yes	-	-
Fax	NCU	REORDRTN	BIT *1	Yes	-	-
Fax	NCU	REORDRTN	001 *1	Yes	-	-
Fax	NCU	REORDRTN	002 *1	Yes	-	-
Fax	NCU	REORDRTN	003 *1	Yes	-	-
Fax	NCU	REORDRTN	004 *1	Yes	-	-
Fax	NCU	REORDRTN	005 *1	Yes	-	-

^{*1.} FAX model only

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
Fax	NCU	REORDRTN	006 *1	Yes	-	-
Fax	NCU	REORDRTN	007 *1	Yes	-	-
Fax	NCU	REORDRTN	008 *1	Yes	-	-
Fax	NCU	AUTO RX	001 *1	Yes	-	-
Fax	NCU	AUTO RX	002 *1	Yes	-	-
Fax	NCU	AUTO RX	003 *1	Yes	-	-
Fax	NCU	AUTO RX	004 *1	Yes	-	-
Fax	NCU	AUTO RX	005 *1	Yes	-	-
Fax	NCU	AUTO RX	006 *1	Yes	-	-
Fax	NCU	AUTO RX	007 *1	Yes	-	-
Fax	NCU	AUTO RX	008 *1	Yes	-	-
Fax	NCU	AUTO RX	009 *1	Yes	-	-
Fax	NCU	CNGDTCT	001 *1	Yes	-	-
Fax	NCU	CNGDTCT	002 *1	Yes	-	-
Fax	NCU	CNGDTCT	006 *1	Yes	-	-
Fax	NCU	CNGDTCT	007 *1	Yes	-	-
Fax	NCU	CNGDTCT	008 *1	Yes	_	-
Fax	NCU	CNGDTCT	009 *1	Yes	_	_
Fax	NCU	CNGDTCT	011 *1	Yes	_	_
Fax	NCU	CNGDTCT	012 *1	Yes	_	_
Fax	NCU	SPECIALB	SW01 *1	Yes	_	-
Fax	NCU	SPECIALB	SW02 *1	Yes	_	_
Fax	NCU	SPECIALB	SW03 *1	Yes	_	_
Fax	NCU	SPECIALB	SW04 *1	Yes	_	_
Fax	NCU	SPECIALB	SW05 *1	Yes	_	_
Fax	NCU	SPECIALB	SW06 *1	Yes	_	_
Fax	NCU	SPECIALB	SW07 *1	Yes	_	_
Fax	NCU	SPECIALB	SW08 *1	Yes	_	_
Fax	NCU	SPECIALB	SW09 *1	Yes	_	_
Fax	NCU	SPECIALB	SW10 *1	Yes	_	_
Fax	NCU	SPECIALB	SW10 *	Yes	-	_
Fax	NCU	SPECIALB	SW12 *1	Yes	-	
Fax	NCU	SPECIALB	SW12 **	Yes		-
Fax	NCU	SPECIALB	SW13 [*]	Yes	-	-
						-
Fax	NCU	SPECIALB	SW15 *1	Yes	-	-
Fax	NCU	SPECIALB	SW16 *1	Yes	-	-
Fax		SPECIALB	SW17 *1	Yes	-	-
Fax	NCU	SPECIALB	SW18 *1	Yes	-	-
Fax	NCU	SPECIALB	SW19 *1	Yes	-	-
Fax	NCU	SPECIALB	SW20 *1	Yes	-	-
Fax	NCU	SPECIALB	SW21 *1	Yes	-	-
Fax	NCU	SPECIALB	SW22 *1	Yes	-	-
Fax	NCU	SPECIALB	SW23 *1	Yes	-	-
Fax	NCU	SPECIALB	SW24 *1	Yes	-	-
Fax	NCU	SPECIALB	SW25 *1	Yes	-	-
Fax	NCU	SPECIALB	SW26 *1	Yes	-	-
Fax	NCU	SPECIALB	SW27 *1	Yes	-	-

^{*1.} FAX model only

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
Fax	NCU	SPECIALB	SW28 *1	Yes	-	-
Fax	NCU	SPECIALB	SW29 *1	Yes	-	-
Fax	NCU	SPECIALB	SW30 *1	Yes	-	-
Fax	NCU	SPECIALN	004 *1	Yes	-	-
Fax	NCU	SPECIALN	005 *1	Yes	-	-
Fax	NCU	SPECIALN	006 *1	Yes	-	-
Fax	NCU	SPECIALN	007 *1	Yes	-	-
Fax	NCU	SPECIALN	008 *1	Yes	-	-
Fax	NCU	SPECIALN	009 *1	Yes	-	-
Fax	NCU	SPECIALN	011 *1	Yes	-	-
Fax	NCU	SPECIALN	012 *1	Yes	-	-
Fax	NCU	SPECIALN	013 *1	Yes	-	-
Fax	NCU	SPECIALN	014 *1	Yes	-	-
Fax	NCU	SPECIALN	015 *1	Yes	-	-
Fax	NCU	SPECIALN	016 *1	Yes	-	-
Fax	NCU	SPECIALN	017 *1	Yes	_	_
Fax	NCU	SPECIALN	019 *1	Yes	_	-
Fax	NCU	SPECIALN	020 *1	Yes	_	_
Fax	NCU	SPECIALN	024 *1	Yes	_	_
Fax	NCU	SPECIALN	025 *1	Yes	_	_
Fax	NCU	SPECIALN	026 *1	Yes	_	_
Fax	NCU	SPECIALN	027 *1	Yes	_	_
Fax	NCU	SPECIALN	030 *1	Yes	_	_
Fax	NCU	SPECIALN	040 *1	Yes	_	_
Fax	NCU	SPECIALN	041 *1	Yes	_	_
Fax	NCU	SPECIALN	042 *1	Yes	_	_
Fax	NCU	SPECIALN	044 *1	Yes	_	_
Fax	NCU	SPECIALN	045 *1	Yes	_	_
Fax	NCU	SPECIALN	046 *1	Yes	_	_
Fax	NCU	SPECIALN	047 *1	Yes	_	_
Fax	NCU	SPECIALN	047	Yes	-	_
Fax	NCU	SPECIALN	065 *1	Yes	-	_
Fax	NCU	SPECIALN	066 *1	Yes		-
Fax	NCU	RKEY	000 *	Yes	-	-
Fax	NCU	RKEY	002 *1	Yes	-	-
Fax	NCU	PBXDIALT	BIT *1	Yes	-	-
Fax	NCU	PBXDIALT	001 *1	Yes	-	-
Fax	NCU	PBXDIALT	002 *1	Yes	-	-
Fax	NCU	PBXDIALT	003 *1	Yes	-	-
Fax	NCU	PBXDIALT	004 *1	Yes	-	-
Fax	NCU	PBXDIALT	005 *1	Yes	-	-
Fax	NCU	PBXDIALT	006 *1	Yes	-	-
Fax	NCU	PBXDIALT	007 *1	Yes	-	-
Fax	NCU	PBXDIALT	008 *1	Yes	-	-
Fax	NCU	PBXBUSYT	BIT *1	Yes	-	-
Fax	NCU	PBXBUSYT	001 *1	Yes	-	-
Fax	NCU	PBXBUSYT	002 *1	Yes	-	-

^{*1.} FAX model only

3. Technical Explanation (System)

Initial screen	Main item	Intermediate item	Sub item	Case A	Case B	Case C
Fax	NCU	PBXBUSYT	003 *1	Yes	-	-
Fax	NCU	PBXBUSYT	004 *1	Yes	-	-
Fax	NCU	PBXBUSYT	005 *1	Yes	-	-
Fax	NCU	PBXBUSYT	006 *1	Yes	-	-
Fax	NCU	PBXBUSYT	007 *1	Yes	-	-
Fax	NCU	PBXBUSYT	008 *1	Yes	-	-

^{*1.} FAX model only

Monitoring Function (imageWARE Remote)



Overview of System

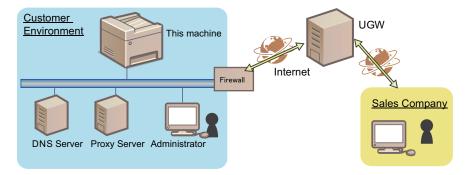
■ Function Overview

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).

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*1
- Installation of CA certificate (arbitrary *2)

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 71.

- 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
 - 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.

^{*1.} If authentication is necessary, make the settings of the authentication information as well.

^{*2.} When using a certificate other than those pre-installed in the device

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 UGW 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.



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 communication error log report that list up to five events can be printed.

Report output procedure

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

12/09 2015 10:14AM *** E-RDS-COM-LOG*** .01 DATE 12/09 2015 TIME 03:21 AM CODE Information SUSPEND: Communication test is not performed. No.01 CODE 05000003 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. 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.



Periodical Service

Periodically Replaced Parts	73
Consumable Parts	74
Periodical Services	75

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.



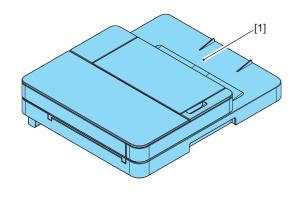
Parts Replacement and Cleaning

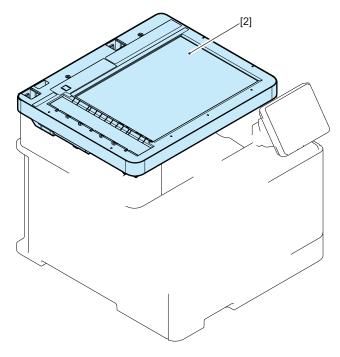
List of Parts	77
External Cover System	85
Original Exposure/Feed System	97
Controller System	121
Laser Exposure System	138
Image Formation System	144
Fixing System	153
Pickup Feed Delivery System	157

List of Parts



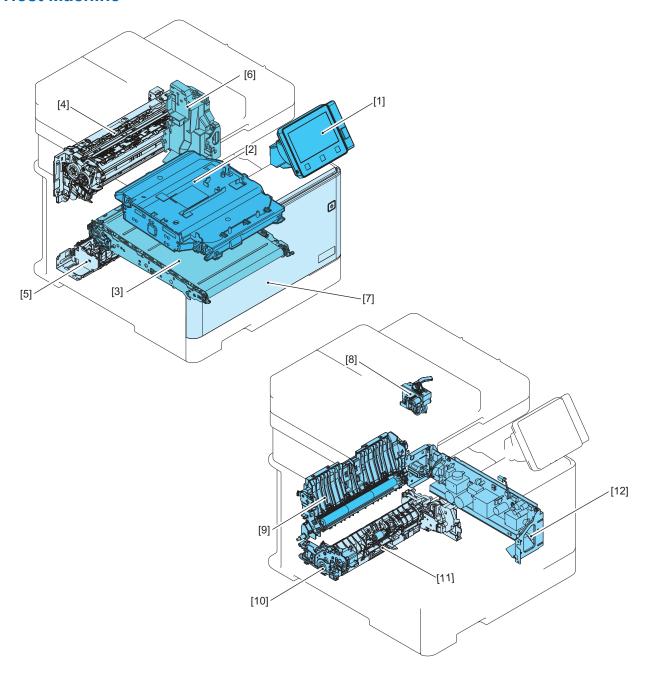
■ ADF/Reader





No.	Name
1	ADF Unit
2	Reader Unit

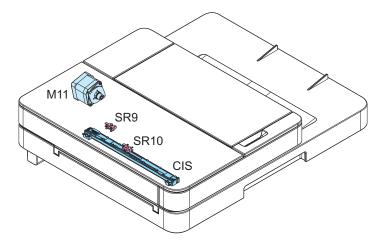
■ Host Machine



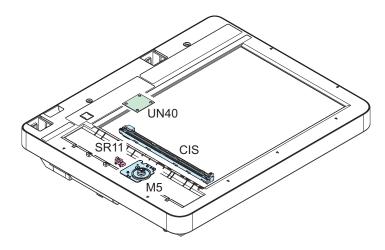
No.	Name
[1]	Control Panel Unit
[2]	Laser Scanner Unit
[3]	ITB Unit
[4]	Fixing Assembly
[5]	Re-Pickup Unit
[6]	Fixing Power Supply Unit
[7]	Cartridge Cover
[8]	Duplex Reverse Drive Unit
[9]	Secondary Transfer Feed Unit
[10]	Lifter Drive Unit
[11]	Cassette Pickup Unit
[12]	Low Voltage Power Supply Unit

Layout Drawing of Electrical Components

■ ADF/Reader

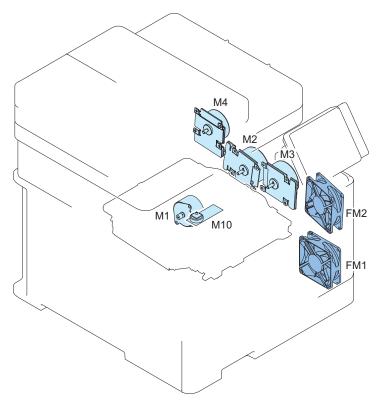


Electric code	Name
M11	ADF Motor
CIS	Contact Image Sensor (ADF CIS)
SR9	Document Sensor
SR10	Document End Sensor



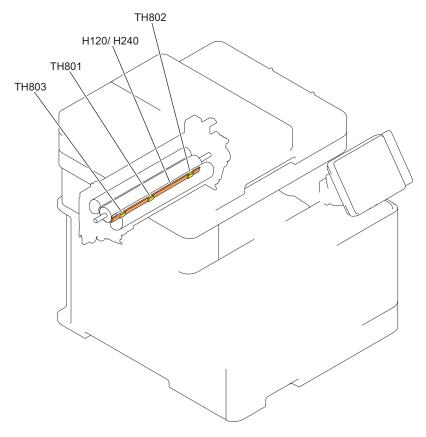
Electric code	Name
M5	Reader Motor
CIS	Contact Image Sensor (Reader CIS)
SR11	CIS HP Sensor
UN40	Connecting Relay PCB

■ Motor/Fan



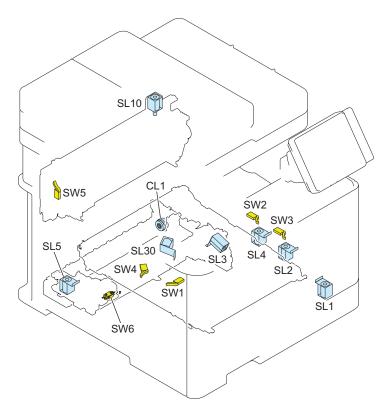
Electric code	Name
M1	Pickup Motor
M2	Drum Motor
M3	Developing Motor
M4	Fixing Motor
M10	Scanner Motor
FM1	Power Supply Fan
FM2	Cartridge Fan

■ Heater



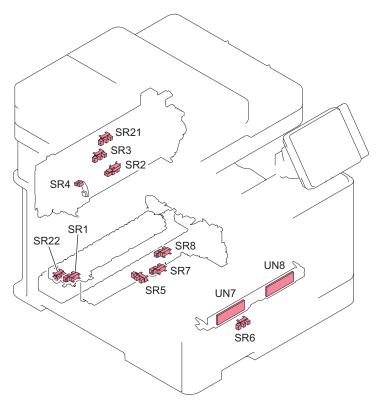
Electric code	Name
H120	Heater (120V)
H240	Heater (240V)
TH801	Main Thermistor
TH802	Sub Thermistor 1
TH803	Sub Thermistor 2

■ Switch/Solenoid/Clutch



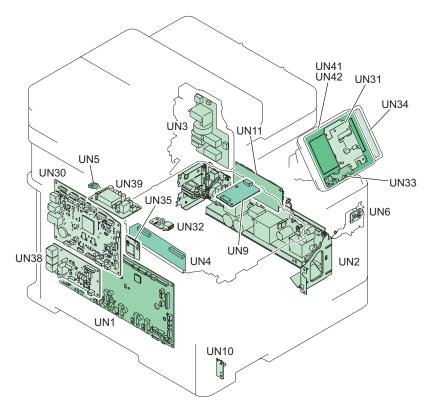
Electric code	Name
CL1	Duplex Re-pickup Clutch
SL1	MP Tray Pickup Solenoid
SL2	Developing Disengagement Solenoid (Bk)
SL3	Cassette Pickup Solenoid
SL4	Developing Disengagement Solenoid (Color)
SL5	Lifter Solenoid
SL10	Duplex Reverse Solenoid
SL30	Primary Transfer Disengagement Solenoid
SW1	Front Door Switch
SW2	Developing Disengagement Switch (Color)
SW3	Developing Disengagement Switch (Bk)
SW4	Primary Transfer Disengagement Switch
SW5	Fixing Pressure Release Switch
SW6	Cassette Switch

■ Sensor



Electric code	Name
SR1	Registration Sensor
SR2	Arch Sensor
SR3	Fixing Delivery Sensor
SR4	Delivery Tray Full Sensor
SR5	Cassette Paper Sensor
SR6	MP Tray Paper Sensor
SR7	Cassette Paper Surface Sensor
SR8	Lifter Sensor
SR21	Duplex Reverse Sensor
SR22	Duplex Re-pickup Sensor
UN7	Density Sensor
UN8	Color Displacement Sensor

■ PCB



Electric code	Name
UN1	Engine Controller PCB
UN2	Low Voltage Power Supply Unit
UN3	Fixing Power Supply PCB
UN4	Laser Driver PCB
UN5	Delivery Tray Full Sensor PCB
UN6	Laser Driver PCB
UN9	Memory Relay PCB
UN10	Environment Sensor PCB
UN11	Driver PCB
UN30	Main Controller PCB
UN31	Touch Panel Main PCB
UN32	USB PCB
UN33	Panel LED PCB
UN34	Panel NFC PCB
UN35	Wireless LAN PCB
UN38	NCU PCB (Only for FAX Model)
UN39	Off-hook PCB (Only for FAX Model)
UN41	LCD
UN42	Touch Panel

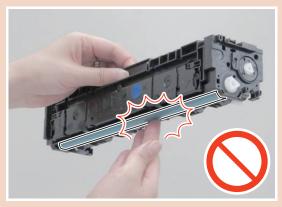
External Cover System

Removing the Toner Cartridge

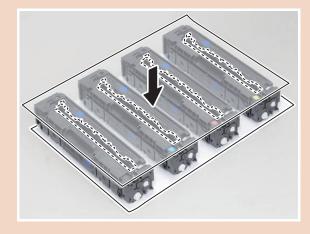
■ Procedure

CAUTION:

• Be careful not to damage the Photosensitive Drum.



• Be sure to cover the drums with paper to block light.



1. Pull out the Cartridge Tray, and remove the Toner Cartridges (Y, M, C, and Bk).



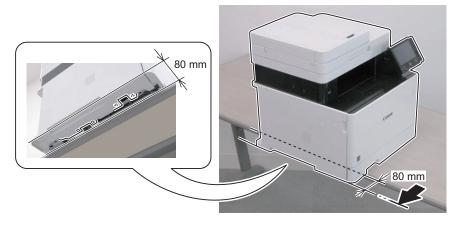


■ Preparation

1. "Removing the Toner Cartridge" on page 85

■ Procedure

1. Shift the host machine by approximately 80 mm from the working table to release the claws on the bottom of the Left Cover.

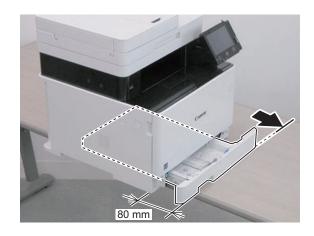


2. Pull out the cassette by approximately 80 mm.

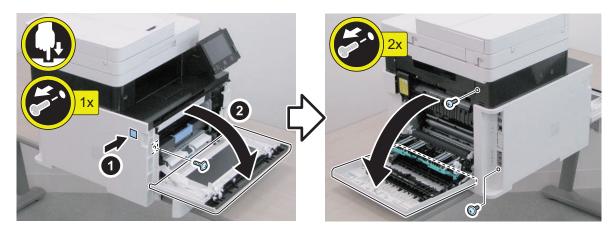
A CAUTION:

Do not completely pull out the cassette, as doing so will disturb the balance of the product and may cause it to fall down.





3. Open the Cartridge Cover and the Rear Cover Unit, and remove the screws.

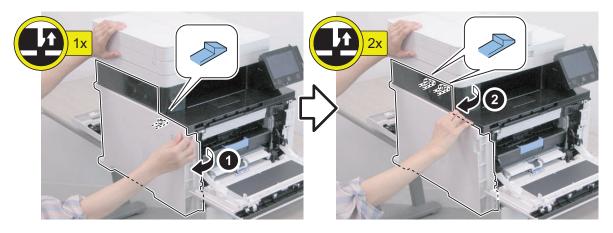


4. Free the bosses and the claw on the front side.

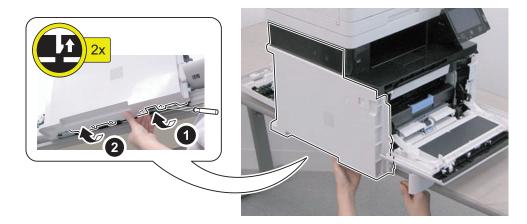
- Be sure to remove it while holding the joint because the Cartridge Cover Retainer comes off easily.
 The boss can be freed easily by pulling the Left Cover in the [A] direction and pulling the Cartridge Cover Retainer in the [B]



5. Release the claws while opening the Left Cover in the direction of the arrow.



6. Release the claws while opening the Left Cover in the direction of the arrow.



7. Free the bosses and claws, and remove the Left Cover.



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

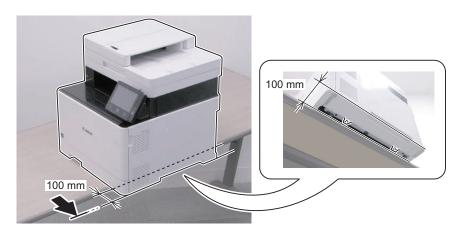
Removing the Right Cover

■ Preparation

1. "Removing the Toner Cartridge" on page 85

■ Procedure

1. Shift the host machine by approximately 100 mm from the working table to release the claws on the bottom of the Right Cover.

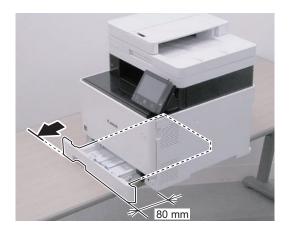


2. Pull out the cassette by approximately 80 mm.

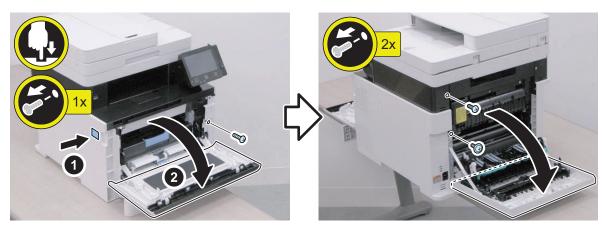
A CAUTION:

Do not completely pull out the cassette, as doing so will disturb the balance of the product and may cause it to fall down.

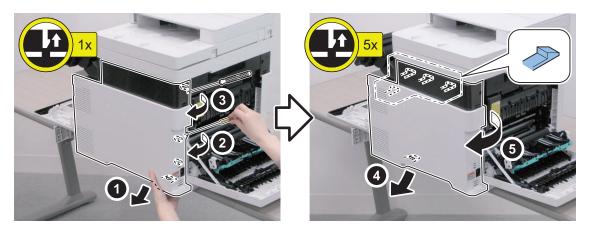




3. Open the Cartridge Cover and the Rear Cover Unit, and remove the screws.



4. Release the claws while opening the Right Cover in the direction of the arrow.



5. Free the bosses and claw, and remove the Right Cover.



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

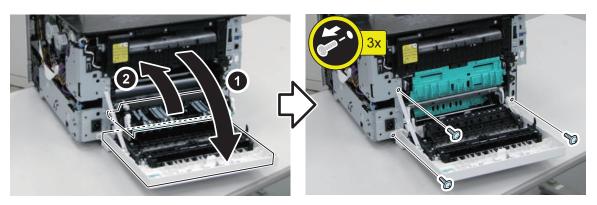
Removing the Rear Cover Unit

■ Preparation

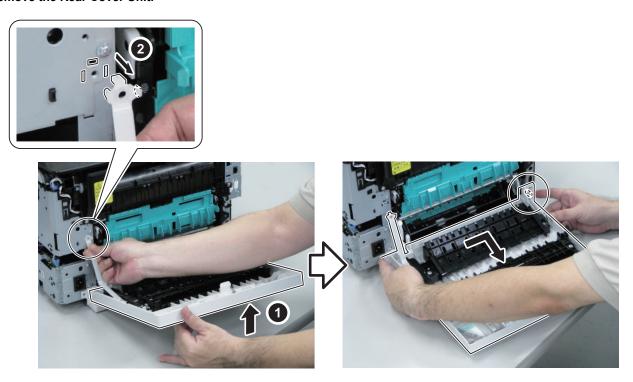
- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88

■ Procedure

1. Open the Rear Cover Unit, and close the Secondary Transfer Unit.



2. Remove the Rear Cover Unit.



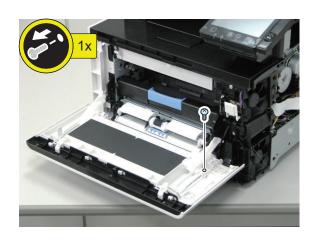
Removing the Cartridge Cover

■ Preparation

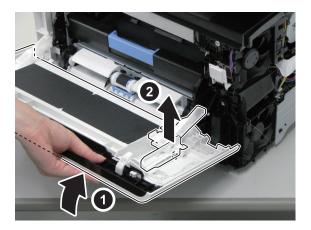
- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Right Cover" on page 88

■ Procedure

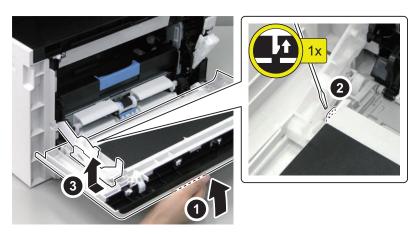
- 1. Open the Cartridge Cover.
- 2. Remove the screw.



3. Release the Cartridge Cover Retainer on the right side.

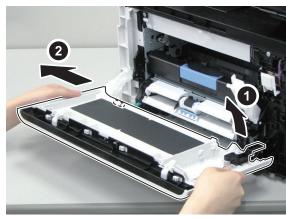


4. Release the Cartridge Cover Retainer on the left side.



5. Remove the Cartridge Cover.





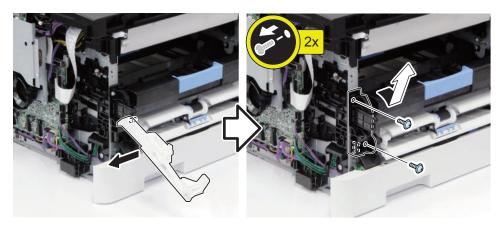
Removing the Cartridge Tray

■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Right Cover" on page 88
- 3. "Removing the Cartridge Cover" on page 91
- 4. "Removing the Left Cover" on page 86

■ Procedure

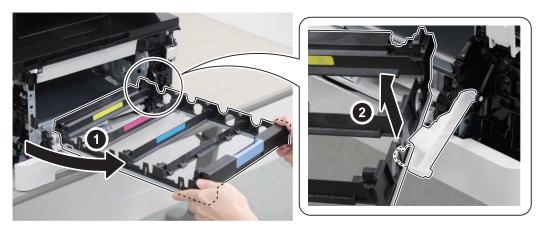
1. Remove the white Front Door Arm on the left side, and remove the Arm Support Block on the left side.



2. Pull out the Cartridge Tray.

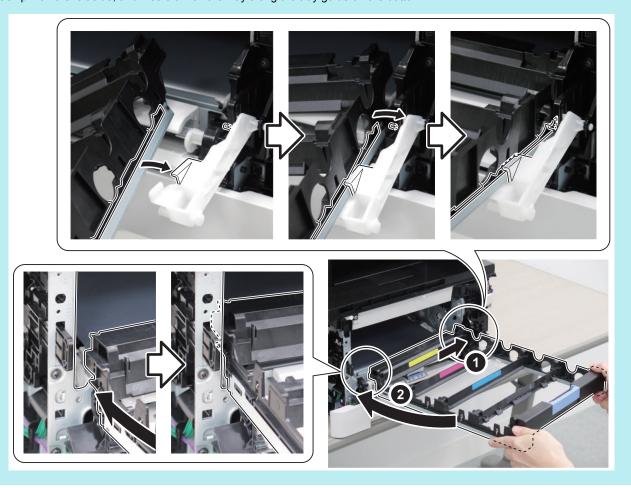


3. Remove the guide from the pin while lifting up the left side of the tray. Also remove the guide from the pin on the right side. Since the Cartridge Tray is still in the groove of the white guide on the right side, turn the tray counterclockwise to remove it from the white guide.



NOTE:

When installing the Cartridge Tray, first make the pin on the right side enter the groove on the tray. Next, insert the tray under the black pin on the left side, and insert it in all the way along the tray guide on the bottom.



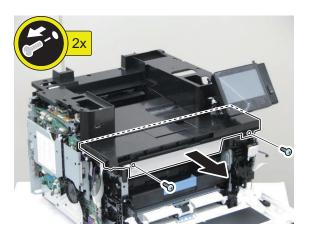
Removing the Upper Front Cover

■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the ADF Unit + Reader Unit" on page 97

■ Procedure

1. Remove the Upper Front Cover.



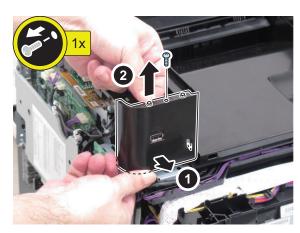
Removing the Upper Left Front Cover

■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the ADF Unit + Reader Unit" on page 97
- 5. "Removing the Upper Front Cover" on page 94

■ Procedure

1. Remove the Upper Left Front Cover.



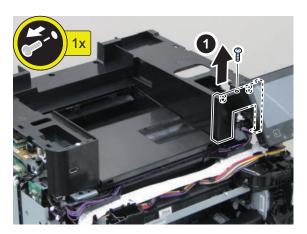
Removing the Upper Right Front Cover

■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the ADF Unit + Reader Unit" on page 97
- 5. "Removing the Upper Front Cover" on page 94

■ Procedure

1. Remove the Upper Right Front Cover.



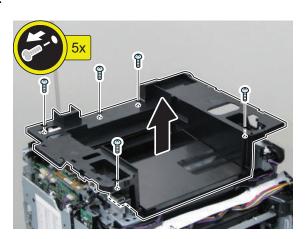
Removing the Upper Cover Unit

■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the ADF Unit + Reader Unit" on page 97
- 5. "Removing the Upper Front Cover" on page 94
- 6. "Removing the Upper Left Front Cover" on page 95
- 7. "Removing the Upper Right Front Cover" on page 95
- 8. "Removing the Control Panel Unit" on page 127

■ Procedure

1. Remove the Upper Cover Unit.



Original Exposure/Feed System

Removing the ADF Unit + Reader Unit

■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88

■ Procedure

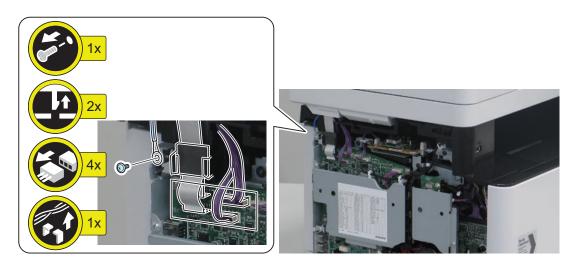
1. Remove the Rear Upper Cover.



2. Remove the screws.

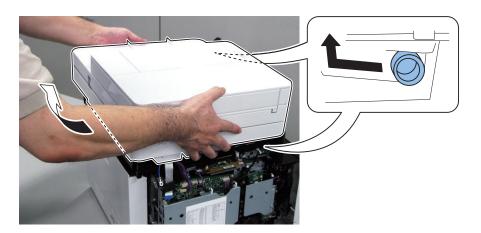


3. Disconnect the cables.



NOTE: The Simplex ADF has one Flat Cable.

4. Remove the ADF Unit + Reader Unit.



Separating the ADF Unit + Reader Unit

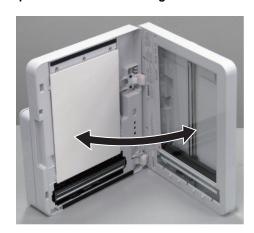
■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86

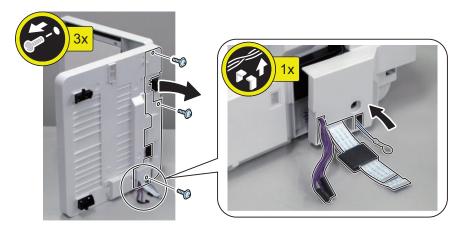
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the ADF Unit + Reader Unit" on page 97

■ Procedure

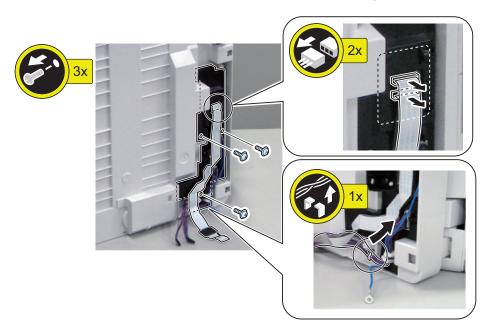
1. Place the ADF Unit and Reader Unit opened as shown in the figure below.



2. Remove the screws, pull the cables out from the cover, and remove the Reader Unit Lower Cover.

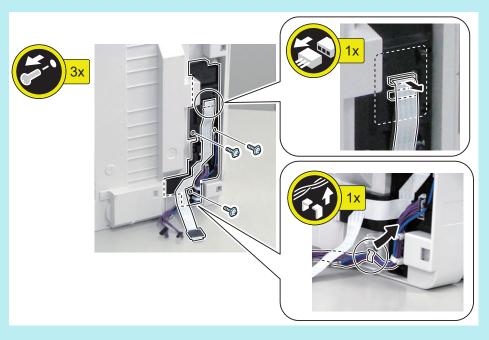


3. Remove the screws, disconnect the Flat Cables, and free the harness from the guide.

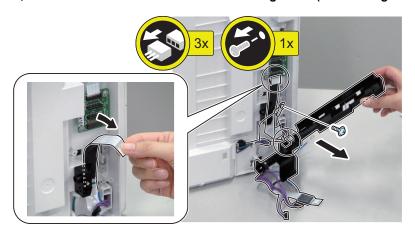


NOTE:

The Simplex ADF has one Flat Cable.



4. Remove the Inner Cover, and free the Flat Cable and the 2 Grounding Wires (secured together with a screw).



NOTE:

The Simplex ADF has no Flat Cable. Disconnect the Grounding Wire.



5. Lift up the ADF Unit, and remove it from the Reader Unit in the direction of the arrow.

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 181"After Replacing the Reader Unit" on page 193

Removing the ADF Roller Unit

■ Procedure

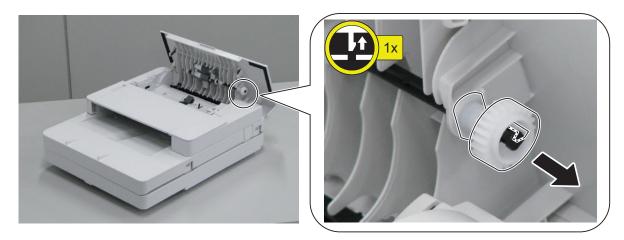
CAUTION:

Do not touch the surface of the roller.

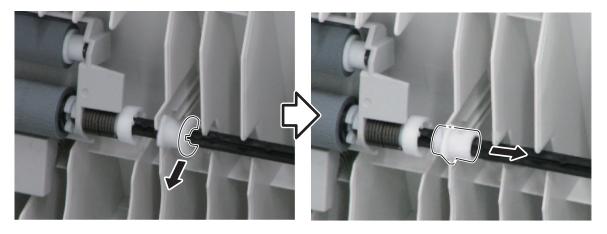
1. Open the ADF Upper Cover.



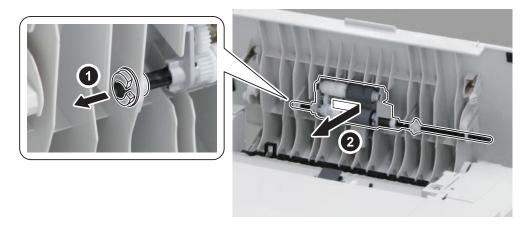
2. Remove the gear and the bushing.



3. Remove the E-ring, and move the bushing.



4. Remove the E-ring and the bushing, and remove the ADF Roller Unit.



CAUTION:

Be careful not to lose the spring attached to the ADF Roller Unit.



NOTE:

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



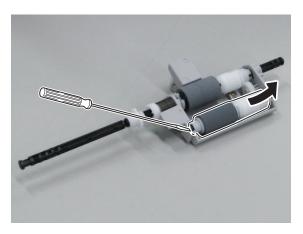
Removing the ADF Pickup Roller

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the ADF Roller Unit" on page 101

CAUTION:

Do not touch the surface of the roller.

1. Remove the ADF Pickup Roller Unit.



2. Remove the ADF Pickup Roller.



Removing the ADF Separation Roller

■ Preparation

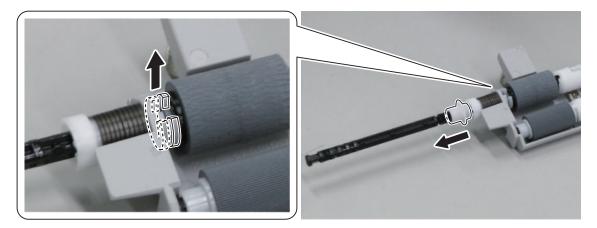
- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the ADF Roller Unit" on page 101

■ Procedure

CAUTION:

Do not touch the surface of the roller.

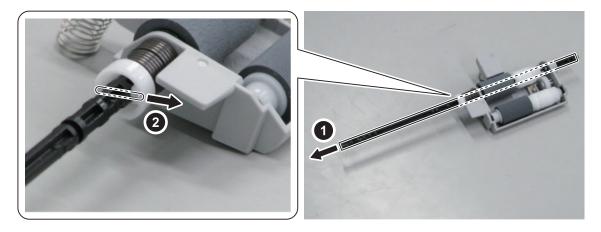
1. Remove the bushing and 2 E-rings.



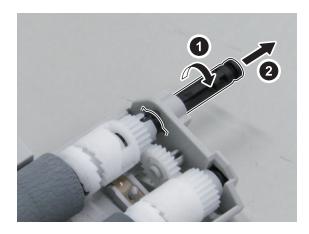
2. Move the Roller Shaft, and remove the Parallel Pin.

CAUTION:

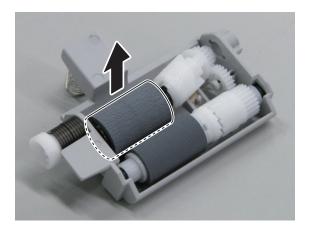
Be careful not to lose the Parallel Pin during installation/removal.



3. Turn the Roller Shaft in the direction of the arrow, and remove it after aligning the protrusion with the hole on the Roller Holder.



4. Remove the ADF Separation Roller.



Removing the ADF Separation Pad Unit

■ Procedure

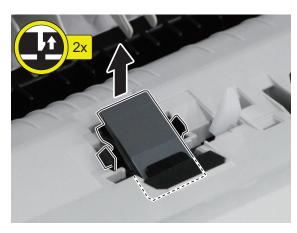
CAUTION:

Be sure not to touch the surface of the roller/pad.

1. Open the ADF Upper Cover.



2. Remove the ADF Separation Pad Unit.

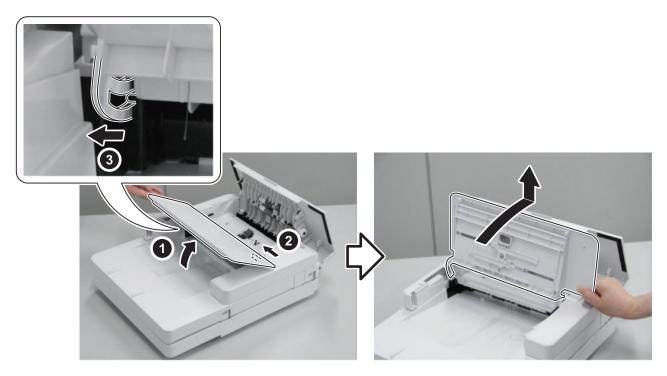




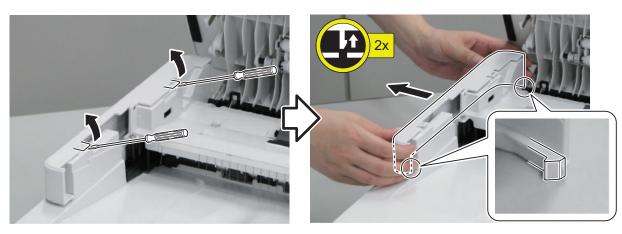
1. Open the ADF Upper Cover.



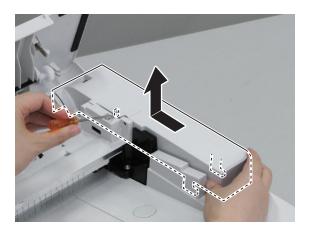
2. Lift the ADF Tray until it stops and release the shaft and hook, and then make the tray stand upright and remove it upward.



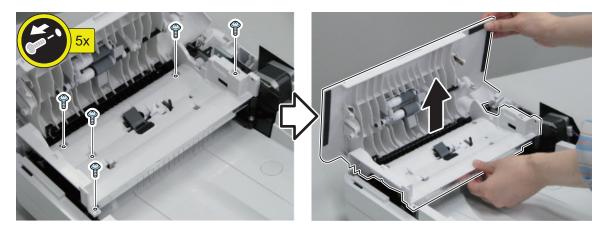
3. Release the hooks, and remove the ADF Front Cover in the direction of the arrow.



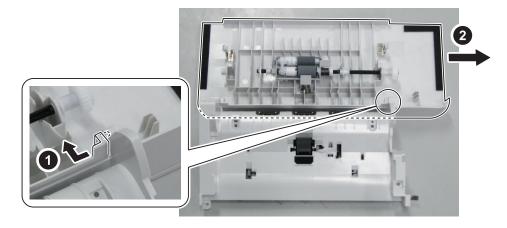
4. Release the boss, and remove the ADF Rear Cover in the direction of the arrow.



5. Remove the screws, and remove the ADF Pickup Feed Unit.



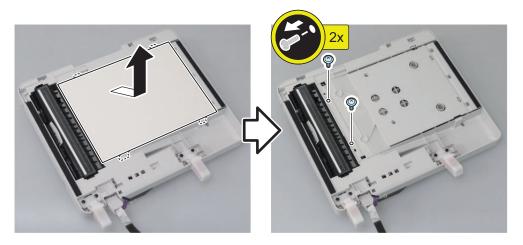
6. Remove the ADF Upper Cover Unit.



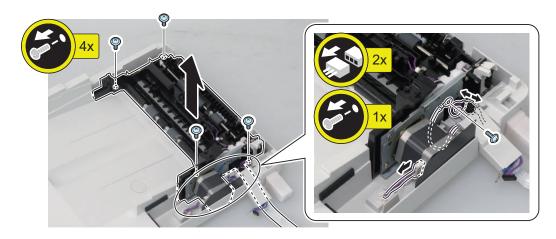
Removing the ADF Feed Unit

- 1. "Removing the ADF Unit + Reader Unit" on page 97
- 2. "Separating the ADF Unit + Reader Unit" on page 98
- 3. "Removing the ADF Upper Cover Unit" on page 107

1. Remove the Back Cover of the ADF Unit in the direction of the arrow, and remove the screws.



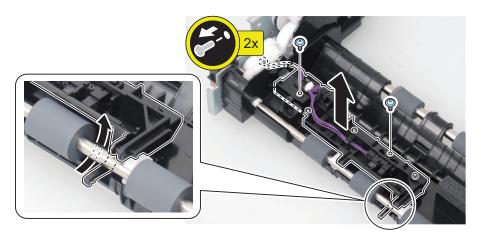
2. Remove the ADF Feed Unit.



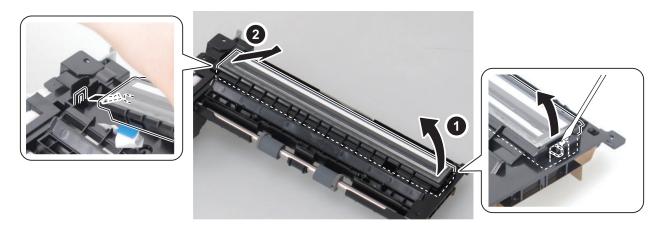
Removing the ADF CIS (For the duplex scanning model)

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the ADF Unit + Reader Unit" on page 97
- 5. "Separating the ADF Unit + Reader Unit" on page 98
- 6. "Removing the ADF Upper Cover Unit" on page 107
- 7. "Removing the ADF Feed Unit" on page 108

1. Remove the ADF Sensor Unit.

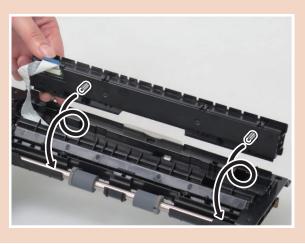


2. Remove the ADF Sensor Unit.



CAUTION:

Be careful not to lose the springs.



CAUTION:

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



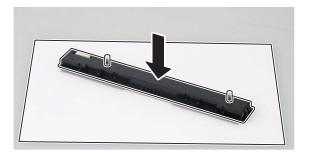
If the Guide Sheet gets caught in the interior, use a flat-blade screwdriver, etc. to fix it.



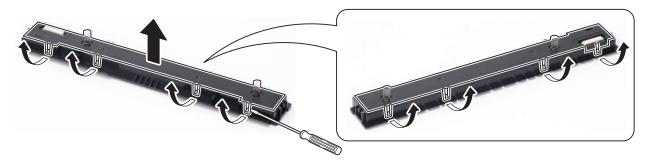
3. Disconnect the Flat Cable.



4. Place the ADF CIS Unit on clean paper with the glass surface side down.



5. Remove the ADF CIS Unit Holder.



6. Remove the ADF CIS.

CAUTION:

Be sure not to touch the sensor of the ADF CIS.





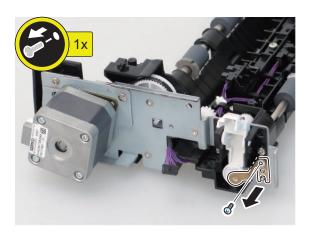
7. Actions after replacement: "After Replacing the ADF CIS Unit" on page 200

Removing the ADF Drive Unit

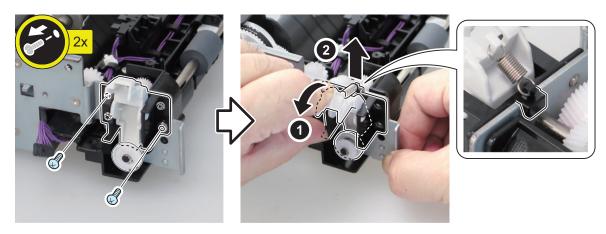
- 1. "Removing the ADF Unit + Reader Unit" on page 97
- 2. "Separating the ADF Unit + Reader Unit" on page 98

- 3. "Removing the ADF Upper Cover Unit" on page 107
- 4. "Removing the ADF Feed Unit" on page 108

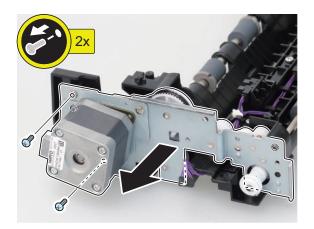
1. Remove the Leaf Spring.



2. Remove the Pressure Release Lever.

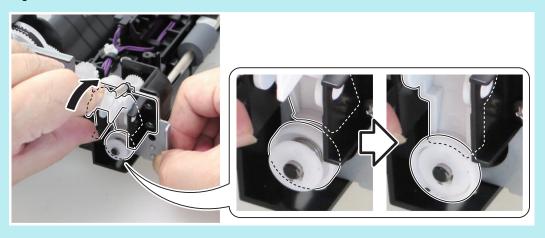


3. Remove the ADF Drive Unit.



NOTE:

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



Removing the Reader Upper Cover Unit

■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the ADF Unit + Reader Unit" on page 97
- 5. "Separating the ADF Unit + Reader Unit" on page 98

■ Procedure

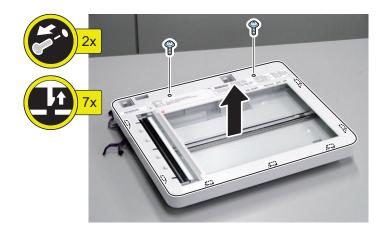
CAUTION:

• 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. Remove the Reader Upper Cover Unit.

CAUTION:

Do not touch the Copyboard Glass with your hands. If soiling is attached, wipe it with lint-free paper moistened with alcohol.



2. Actions after replacement: "After Replacing the Reader Upper Cover Unit" on page 188

Removing the Reader CIS

■ Preparation

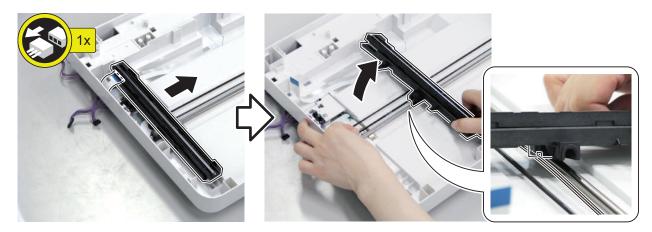
- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the ADF Unit + Reader Unit" on page 97
- 5. "Separating the ADF Unit + Reader Unit" on page 98
- 6. "Removing the Reader Upper Cover Unit" on page 115

■ Procedure

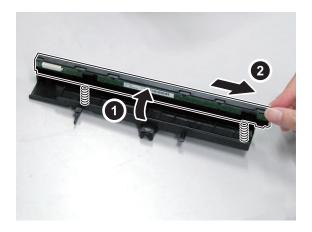
1. Remove the Reader CIS Spacer.



2. Remove the Flat Cable, and remove the Reader CIS Mounting Base from the Timing Belt.



3. Lift up the Reader CIS, and remove it in the direction of the arrow. Be careful not to lose the springs.



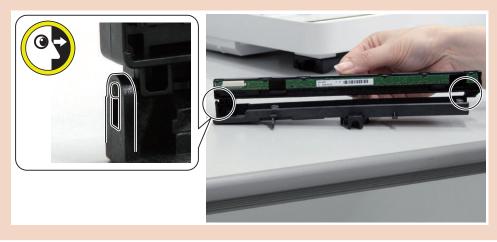
CAUTION:

Be sure not to touch the sensor of the Reader CIS.



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 184

Removing the Reader CIS Timing Belt

■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the ADF Unit + Reader Unit" on page 97
- 5. "Separating the ADF Unit + Reader Unit" on page 98
- 6. "Removing the Reader Upper Cover Unit" on page 115
- 7. "Removing the Reader CIS" on page 116

Procedure

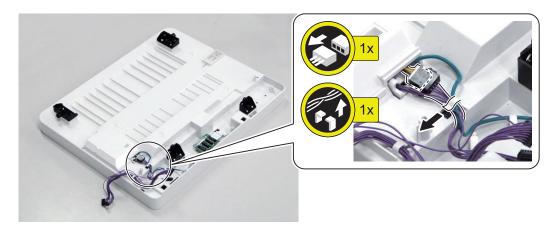
1. Remove the [A] part of the belt from the gear.



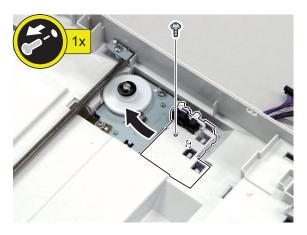
Removing the Reader Scanner Motor

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the ADF Unit + Reader Unit" on page 97
- 5. "Separating the ADF Unit + Reader Unit" on page 98
- 6. "Removing the Reader Upper Cover Unit" on page 115
- 7. "Removing the Reader CIS" on page 116
- 8. "Removing the Reader CIS Timing Belt" on page 119

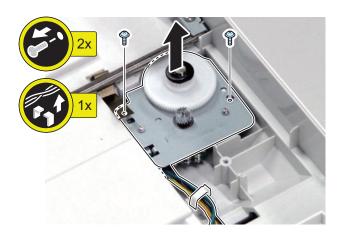
1. Disconnect the connector and free the harness from the Harness Guide on the back side of the Reader Unit.



2. Turn it over so that the front side is facing up, and remove the Sensor Mounting Base.



3. Remove the Motor Unit.



Controller System

Removing the Controller Cover

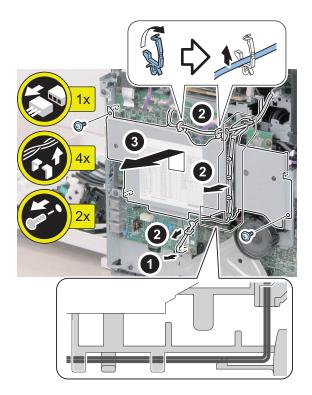
■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86

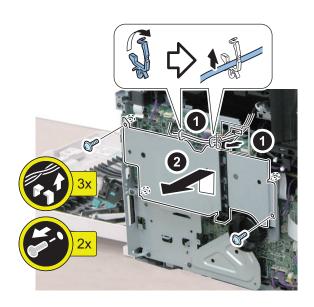
■ Procedure

1. Remove the Controller Cover.

<If the Fax is installed>



<If the Fax is not installed>



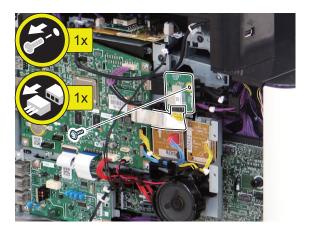
Removing the Wireless LAN PCB (Wi-Fi model only)

■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Controller Cover" on page 121

■ Procedure

1. Remove the Wireless LAN PCB.



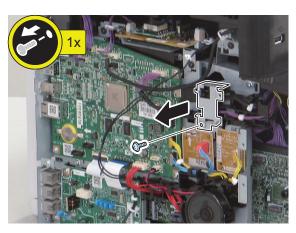
Removing the Wireless LAN Support Plate (Wi-Fi model only)

Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Controller Cover" on page 121
- 4. "Removing the Wireless LAN PCB (Wi-Fi model only)" on page 122

■ Procedure

1. Remove the Wireless LAN Support Plate.



Removing the Main Controller PCB

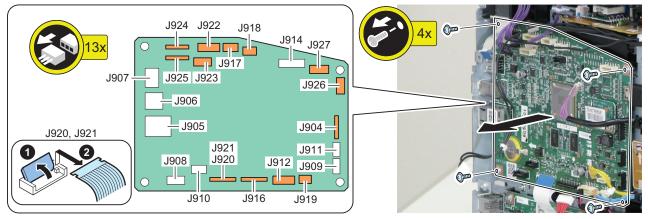
■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Controller Cover" on page 121

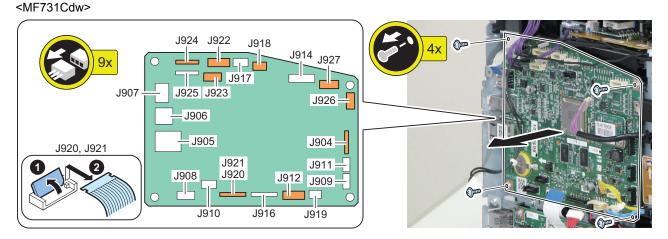
■ Procedure

1. Disconnect all connectors from the Main Controller PCB and then remove the PCB.

<MF734Cdw> <MF733Cdw>



<MF732Cdw>



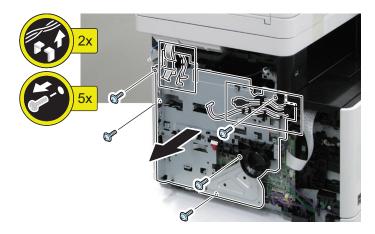
2. Actions after replacement: "After Replacing the Main Controller PCB" on page 176

Removing the Main Controller Support Plate

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Controller Cover" on page 121
- 4. "Removing the Main Controller PCB" on page 123
- 5. "Removing the Wireless LAN Support Plate (Wi-Fi model only)" on page 122

1. Remove the Main Controller Support Plate.

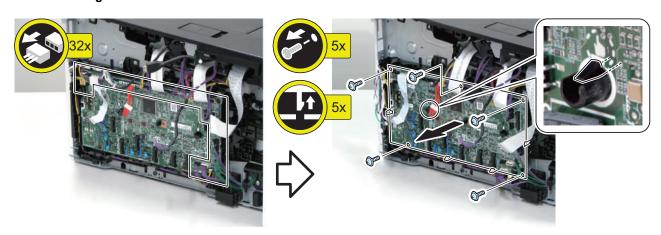
In the case of simplex ADF model, there is one Flat Cable.



Removing the Engine Controller PCB

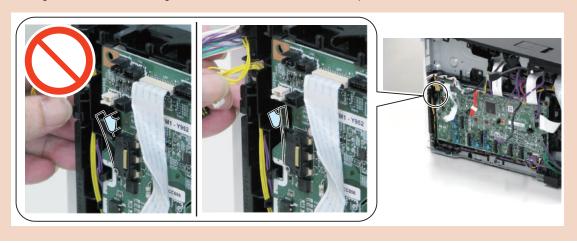
- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Controller Cover" on page 121
- 4. "Removing the Main Controller PCB" on page 123
- 5. "Removing the Wireless LAN Support Plate (Wi-Fi model only)" on page 122
- 6. "Removing the Main Controller Support Plate" on page 123

1. Remove the Engine Controller PCB.



CAUTION:

When installing it, be sure that the flag of the microswitch is in the correct position.

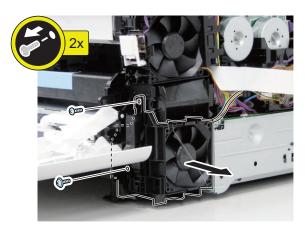


2. Actions after replacement: "After Replacing the Engine Controller PCB" on page 175

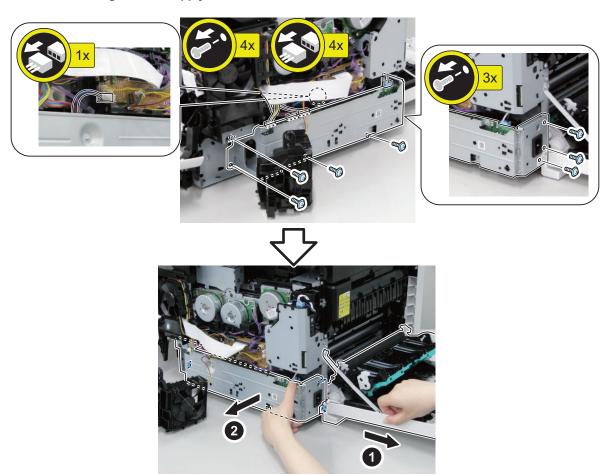
Removing the Low Voltage Power Supply Unit

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Right Cover" on page 88

1. Remove the Power Supply Fan Unit.



2. Remove the Low Voltage Power Supply Unit.

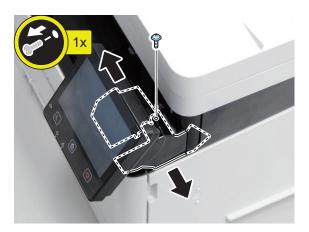




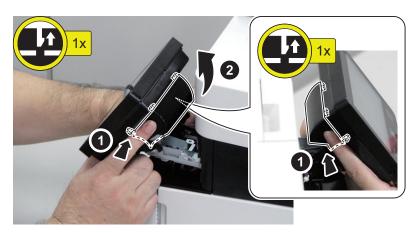
1. Remove the Panel Arm Cover (Middle).



2. Remove the Panel Arm Right Cover and Panel Arm Left Cover.



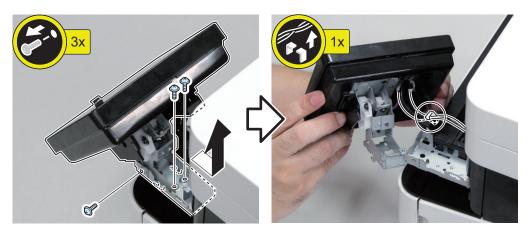
3. Remove the Panel Rear Upper Cover.



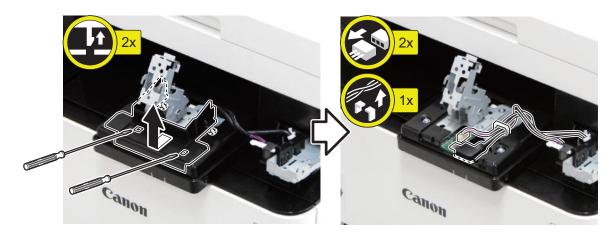
4. Remove the Panel Front Lower Cover.



5. Remove the Control Panel.



6. Remove the Panel Rear Lower Cover. Disconnect the connector and HDMI Cable, and free the harness from the Wire Saddle.



7. Remove the Panel Rear Cover.



8. Remove the Hinge Unit.



9. Actions after replacement: "After Replacing the Control Panel" on page 175

Removing the OFF Hook PCB (Fax model only)

■ Preparation

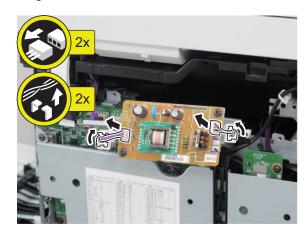
- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86

■ Procedure

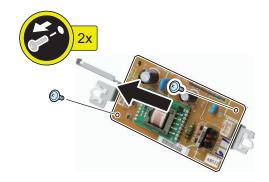
1. Remove the OFF Hook PCB Unit.



2. Remove the Connectors and the Edge Saddles.



3. Remove the OFF Hook PCB.



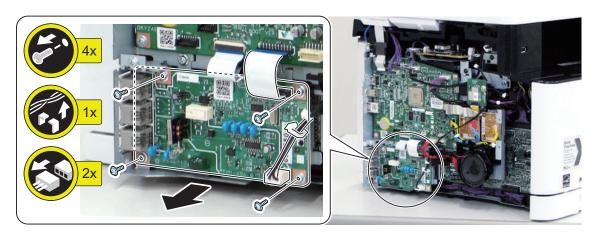
Removing the NCU PCB (Fax model only)

■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86

■ Procedure

1. Remove the NCU PCB.



Removing the Speaker (Fax model only)

■ Preparation

1. "Removing the Toner Cartridge" on page 85

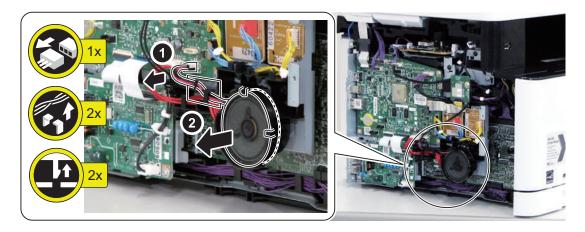
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Controller Cover" on page 121

1. Remove the Speaker.

CAUTION:

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

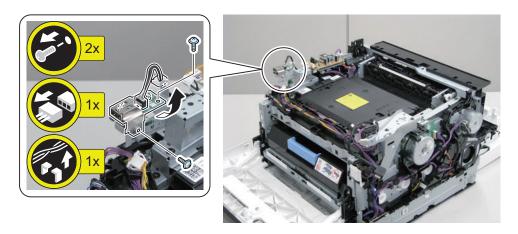




Removing the USB PCB

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the ADF Unit + Reader Unit" on page 97
- 5. "Removing the Upper Front Cover" on page 94
- 6. "Removing the Upper Left Front Cover" on page 95
- 7. "Removing the Upper Right Front Cover" on page 95
- 8. "Removing the Control Panel Unit" on page 127
- 9. "Removing the Upper Cover Unit" on page 96

1. Remove the USB PCB Unit.



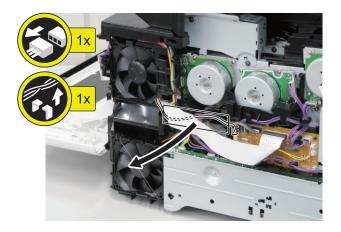
2. Remove the USB Connector Cover.

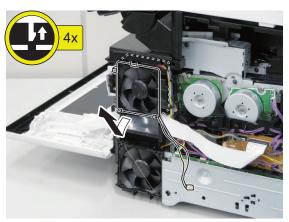


Removing the Cartridge Fan

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Right Cover" on page 88

1. Remove the Cartridge Fan.

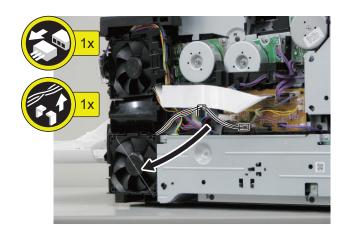


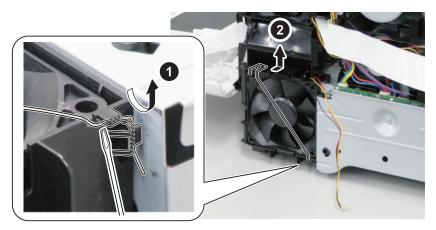


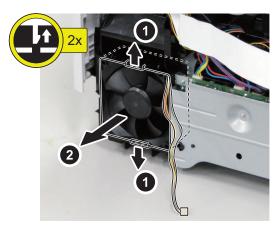
Removing the Power Supply Fan

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Right Cover" on page 88

1. Remove the Power Supply Fan.



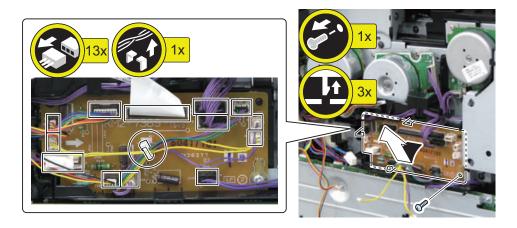




Removing the Driver PCB

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Right Cover" on page 88

1. Remove the Driver PCB.



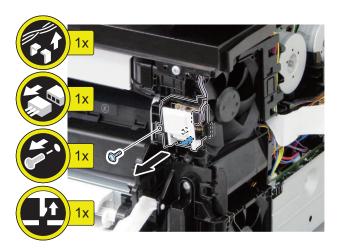
Removing the Power Switch Unit

■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Right Cover" on page 88

■ Procedure

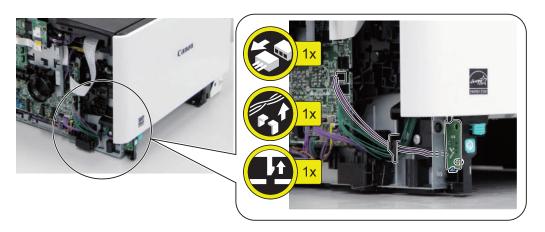
1. Remove the Power Switch Unit.



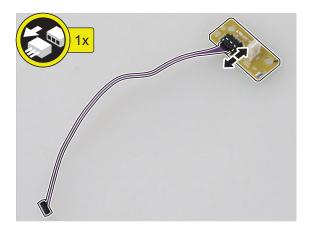
Removing the Environment Sensor

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86

1. Remove the Environment Sensor.



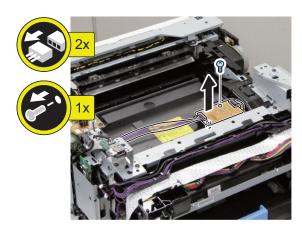
2. Remove the Harness.



Removing the Memory Relay PCB

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Right Cover" on page 88
- 3. "Removing the Left Cover" on page 86
- 4. "Removing the ADF Unit + Reader Unit" on page 97
- 5. "Removing the Upper Front Cover" on page 94
- 6. "Removing the Upper Left Front Cover" on page 95
- 7. "Removing the Upper Right Front Cover" on page 95
- 8. "Removing the Control Panel Unit" on page 127
- 9. "Removing the Upper Cover Unit" on page 96

1. Remove the Memory Relay PCB.



Laser Exposure System

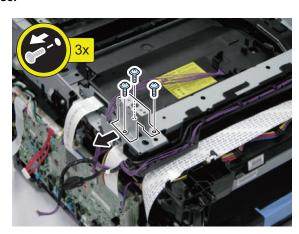
Removing the Laser Scanner Unit

■ Preparation

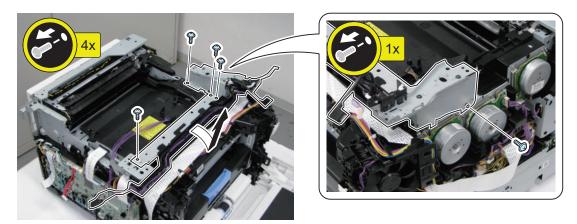
- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the ADF Unit + Reader Unit" on page 97
- 5. "Removing the Upper Front Cover" on page 94
- 6. "Removing the Upper Left Front Cover" on page 95
- 7. "Removing the Upper Right Front Cover" on page 95
- 8. "Removing the Control Panel Unit" on page 127
- 9. "Removing the Upper Cover Unit" on page 96
- 10. "Removing the Controller Cover" on page 121
- 11. "Removing the Main Controller PCB" on page 123
- 12. "Removing the Wireless LAN Support Plate (Wi-Fi model only)" on page 122
- 13. "Removing the Main Controller Support Plate" on page 123
- 14. "Removing the USB PCB" on page 131

■ Procedure

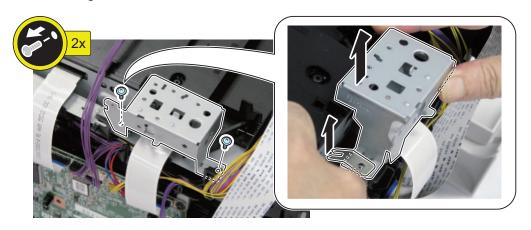
1. Remove the USB Mounting Base.



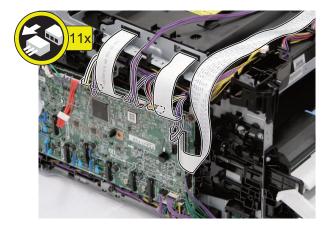
2. Remove the Laser Unit Upper Plate and Touch Panel Support Base.



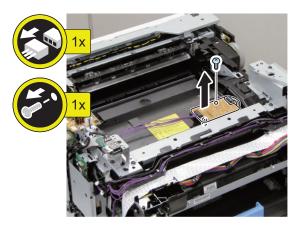
3. Remove the USB Mounting Plate.



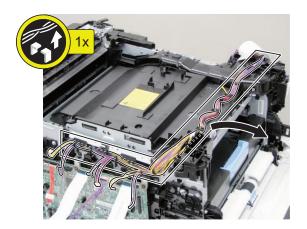
4. Disconnect the connector.



5. Remove the Memory Relay PCB.



6. Free the harness.

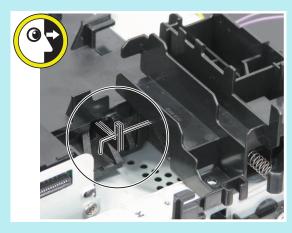


7. Remove the Laser Shutter Open/Close Detection Unit.

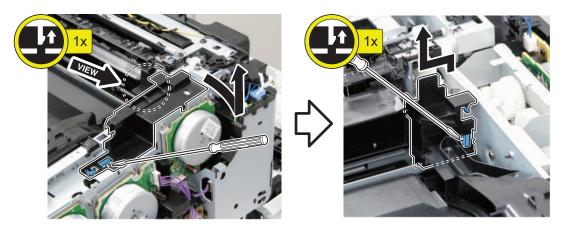


NOTE:

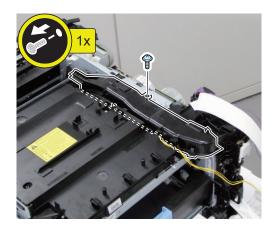
When installing it, be sure that the L-shaped wire is placed on the Shutter Lever of the Laser Unit.

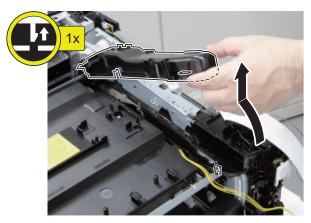


8. Remove the Gear Cover and then remove the Cover under the Gear Cover.

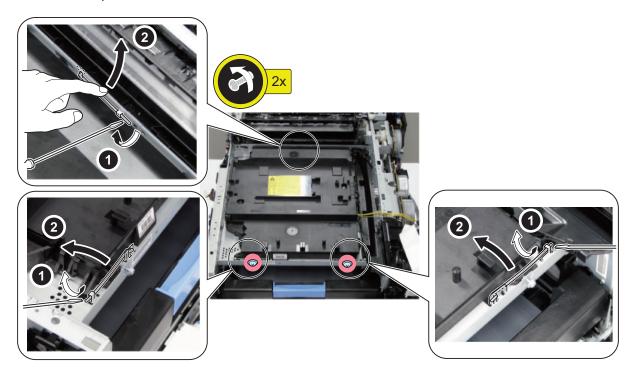


9. Remove the Duct Cover.





10. Loosen the screws, and remove the Laser Scanner Unit Fixation Pins.



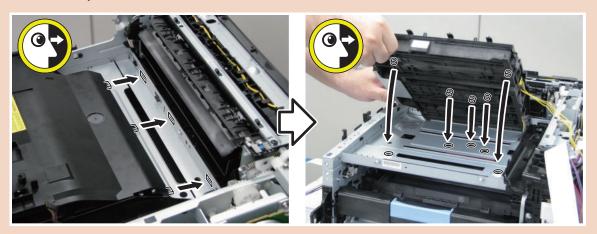
11. Remove the Laser Scanner Unit.



CAUTION:

Points to Note at Installation

- Insert the bosses into the positioning holes, and check that the Laser Unit is correctly positioned.
- Be sure that the Laser Unit is properly pushed down and secured with the 3 Fixation Pins. Also be sure that the Fixation Pins are securely fitted and will not come off.



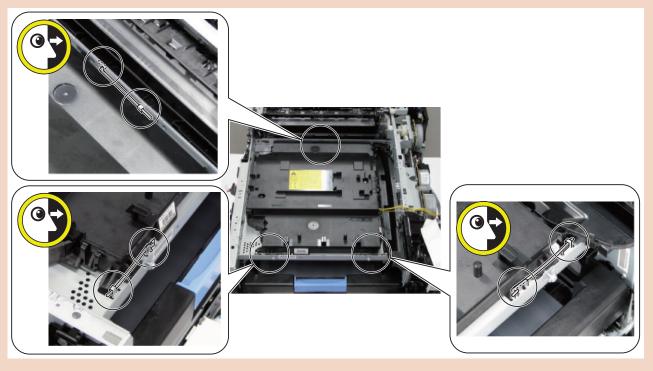


Image Formation System

Removing the Secondary Transfer Roller

■ Preparation

1. "Removing the Toner Cartridge" on page 85

■ Procedure

CAUTION:

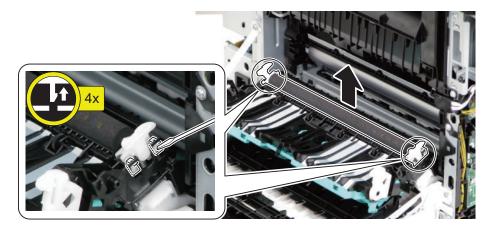
Do not touch the surface of the Secondary Transfer Roller.



1. Open the Rear Cover Unit and the Secondary Transfer Feed Unit.



2. Remove the Secondary Transfer Roller.



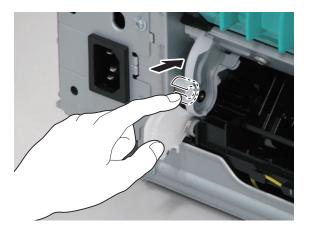
Removing the Secondary Transfer Feed Unit

■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the Rear Cover Unit" on page 90

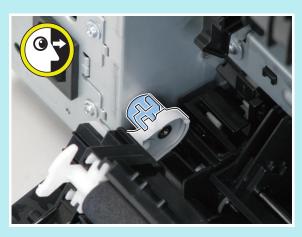
■ Procedure

1. Remove the Shaft Spacer on the rear left side.



NOTE:

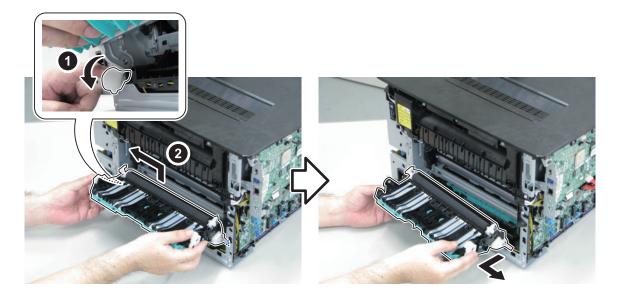
When installing the Shaft Spacer, install it with the Secondary Transfer Feed Unit opened. Be sure to check the installation position of the stopper.



2. Open the Secondary Transfer Feed Unit, and then remove the Secondary Transfer Feed Unit.

NOTE:

Remove the Secondary Transfer Feed Unit by lifting the whole unit and moving it to the left while pushing down the gear on the left with a finger so that the gear does not interfere with the unit.



Removing the ITB Unit

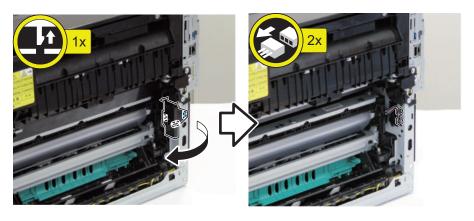
■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the Rear Cover Unit" on page 90
- 5. "Removing the Secondary Transfer Feed Unit" on page 145

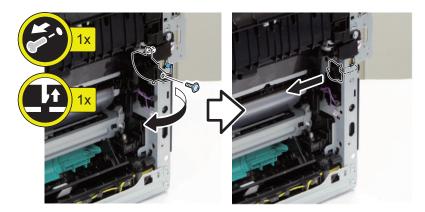
■ Procedure

CAUTION:

- · Place the ITB Unit on a sheet of paper.
- · Be sure not to damage or touch the ITB Unit.
- 1. Remove the Connector Cover on the rear right side of the host machine, and disconnect the connectors.

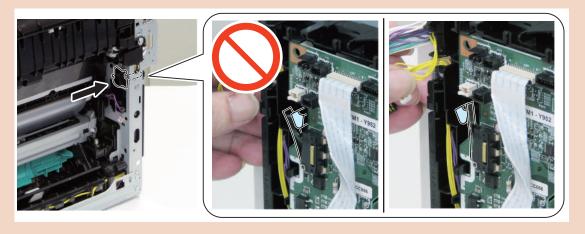


2. Remove the Rear Door Open/Close Detection Flag.

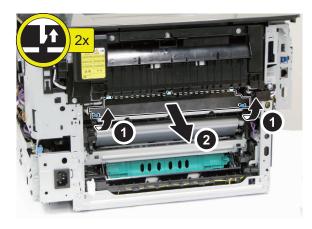


CAUTION:

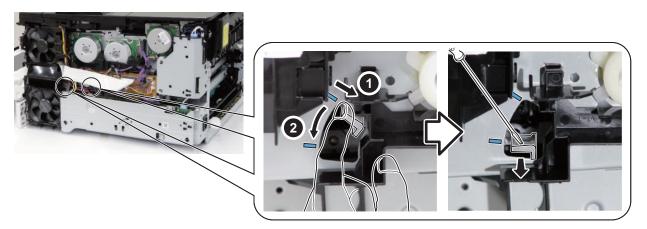
When installing the Rear Door Open/Close Detection Flag, install it to the position where it pushes the lever of the microswitch.



3. Remove the ITB Unit Upper Cover from the rear of the host machine.

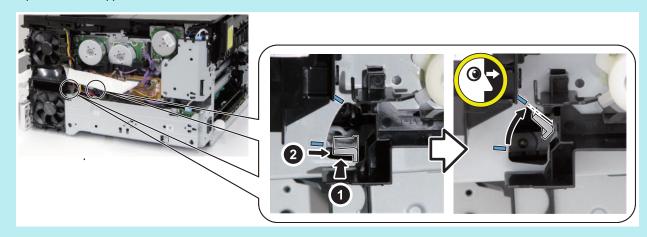


4. While releasing the lock of the 2 white levers by pushing them respectively to the direction of the arrow 1, move them to the mark 2. Then pull out the levers toward the front until they stop.

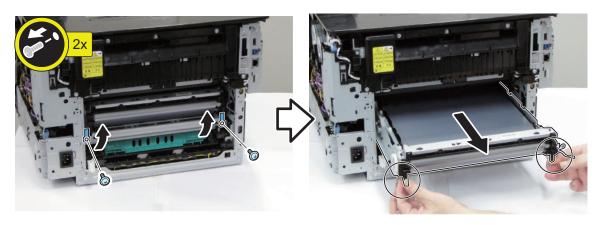


NOTE:

For installation, while pushing the two levers respectively toward the rear and then to the direction of the arrow 2, move them to the position of the upper mark.



5. Remove the screws, and pull out the ITB Unit while holding the 2 levers on the left and right sides.



6. Actions after replacement: "After Replacing the ITB Unit" on page 175

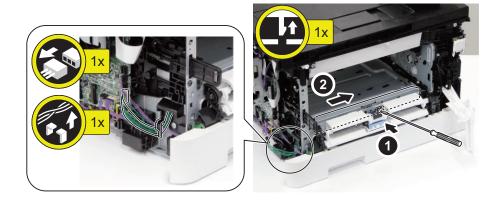
Removing the Color Displacement Density Sensor Unit

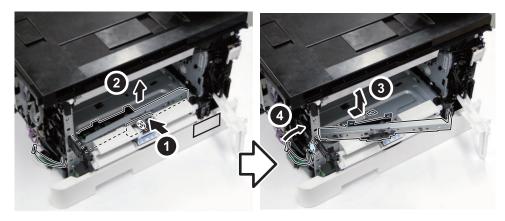
■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86

- 3. "Removing the Right Cover" on page 88
- 4. "Removing the Rear Cover Unit" on page 90
- 5. "Removing the Secondary Transfer Feed Unit" on page 145
- 6. "Removing the ITB Unit" on page 146
- 7. "Removing the Cartridge Cover" on page 91

1. Remove the Color Displacement Density Sensor Unit.





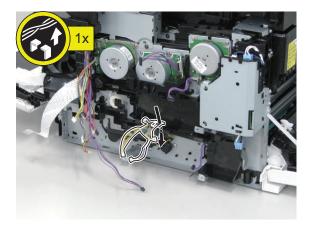
2. Actions after replacement: "After Replacing the Color Displacement Density Sensor Unit" on page 175

Removing the Developing Motor

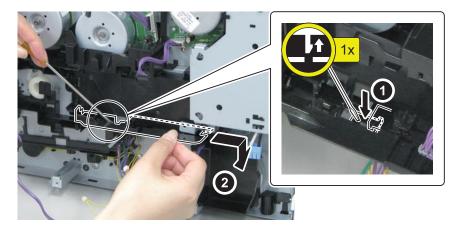
■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Right Cover" on page 88
- 3. "Removing the Low Voltage Power Supply Unit" on page 125
- 4. "Removing the Driver PCB" on page 134

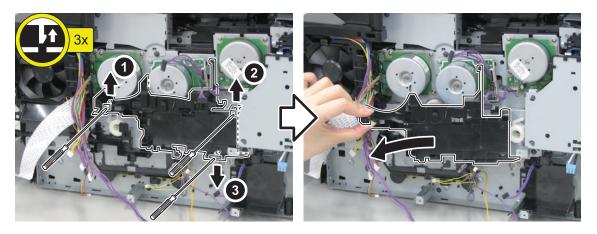
1. Free the harness.



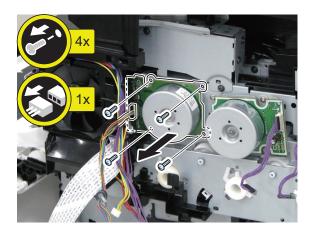
2. Remove the PCB Guide.



3. Remove the PCB Holder.



4. Remove the Developing Motor.



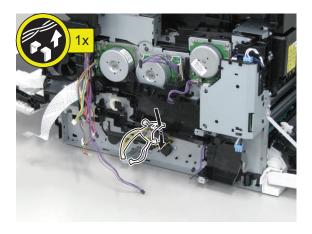
Removing the Drum Motor

■ Preparation

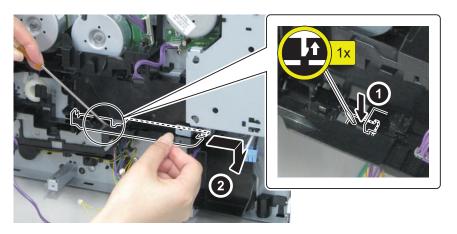
- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Right Cover" on page 88
- 3. "Removing the Low Voltage Power Supply Unit" on page 125
- 4. "Removing the Driver PCB" on page 134

■ Procedure

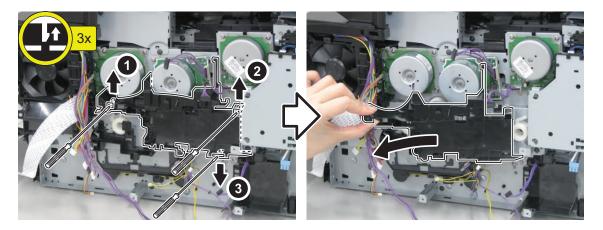
1. Free the harness.



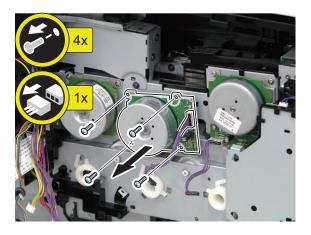
2. Remove the PCB Guide.



3. Remove the PCB Holder.



4. Remove the Drum Motor.



Fixing System

Removing the Fixing Assembly

■ Preparation

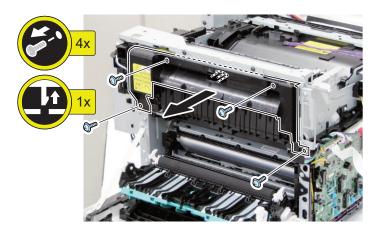
- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the ADF Unit + Reader Unit" on page 97
- 5. "Removing the Upper Front Cover" on page 94
- 6. "Removing the Upper Left Front Cover" on page 95
- 7. "Removing the Upper Right Front Cover" on page 95
- 8. "Removing the Control Panel Unit" on page 127
- 9. "Removing the Upper Cover Unit" on page 96
- 10. "Removing the Controller Cover" on page 121
- 11. "Removing the Main Controller PCB" on page 123
- 12. "Removing the Wireless LAN Support Plate (Wi-Fi model only)" on page 122
- 13. "Removing the Main Controller Support Plate" on page 123

■ Procedure

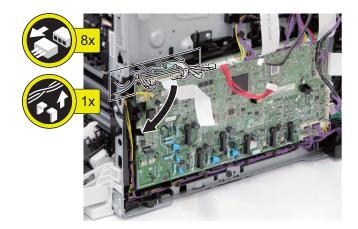
CAUTION:

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

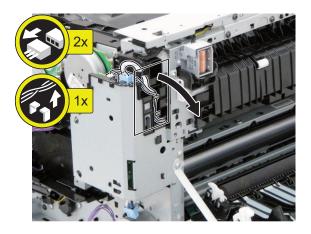
1. Remove the Rear Upper Unit Plate.



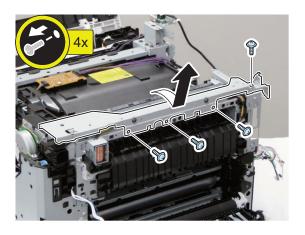
2. Free the harness.



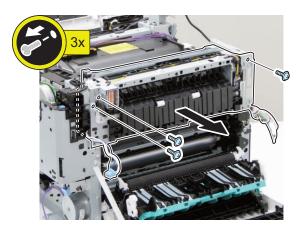
3. Disconnect the connectors and free the harness.



4. Remove the Rear Upper Plate.

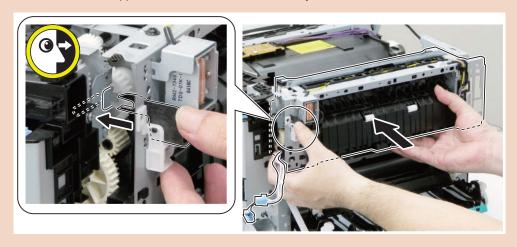


5. Remove the Fixing Assembly.



CAUTION:

When installing it, be careful not to let the Reverse Lever come in contact with the frame of the printer. Also be careful not to let it slip under the Reverse Stopper of the Reverse Drive Assembly.

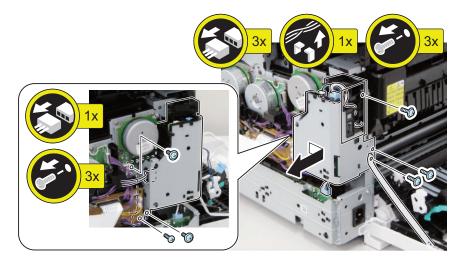


Removing the Fixing Power Supply Unit

■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Right Cover" on page 88

1. Remove the Fixing Power Supply Unit.



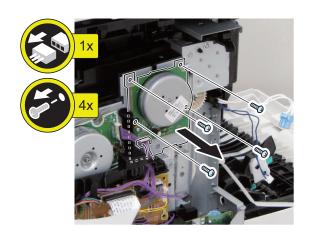
Removing the Fixing Motor

■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Right Cover" on page 88
- 3. "Removing the Fixing Power Supply Unit" on page 155

■ Procedure

1. Remove the Fixing Motor.



Pickup Feed Delivery System

Removing the Cassette Pickup Roller/Feed Roller Unit

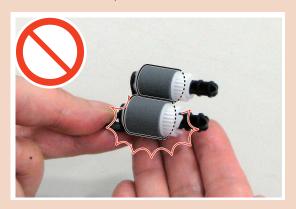
■ Preparation

1. "Removing the Toner Cartridge" on page 85

■ Procedure

CAUTION:

Be sure not to touch the surface of the Cassette Pickup Roller and the surface of the Feed Roller.



CAUTION:

When laying down the main body, be sure to secure the ADF Unit with tape to prevent from opening.

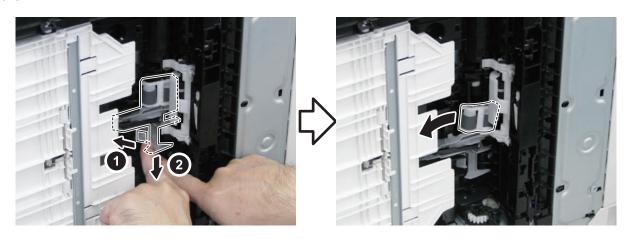
1. Pull out the cassette, and stand the host machine with its left side down.



2. Move the Multi-purpose Tray Feed Guide in the direction of the arrow (2).



3. Push the lever, move the Roller Retainer to the direction of the arrow, and remove the Pickup Roller and the Feed Roller.



Removing the Cassette Separation Roller Unit

■ Preparation

1. "Removing the Toner Cartridge" on page 85

■ Procedure

CAUTION:

Be sure not to touch the surface of the Separation Roller.



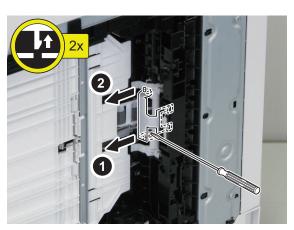
CAUTION:

When laying down the main body, be sure to secure the ADF Unit with tape to prevent from opening.

1. Pull out the cassette, and stand the host machine with its left side down.



2. Remove the Separation Roller Guide.



3. Remove the Separation Roller.



NOTE:

When installing the Separation Roller, be sure to properly fit the D-cut.



Removing the Duplex Reverse Drive Unit

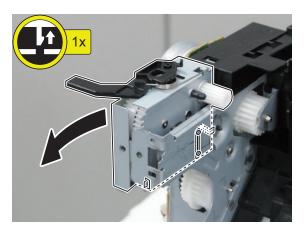
Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the ADF Unit + Reader Unit" on page 97
- 5. "Removing the Upper Front Cover" on page 94
- 6. "Removing the Upper Left Front Cover" on page 95
- 7. "Removing the Upper Right Front Cover" on page 95
- 8. "Removing the Control Panel Unit" on page 127
- 9. "Removing the Upper Cover Unit" on page 96
- 10. "Removing the Controller Cover" on page 121
- 11. "Removing the Main Controller PCB" on page 123
- 12. "Removing the Wireless LAN Support Plate (Wi-Fi model only)" on page 122
- 13. "Removing the Main Controller Support Plate" on page 123
- 14. "Removing the Fixing Assembly" on page 153

15. "Removing the Fixing Power Supply Unit" on page 155

■ Procedure

1. Remove the Duplex Reverse Drive Unit.



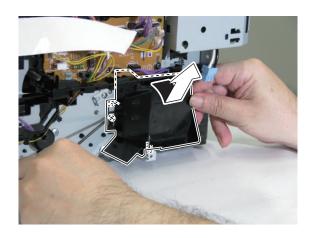
Removing the Pickup Motor

■ Preparation

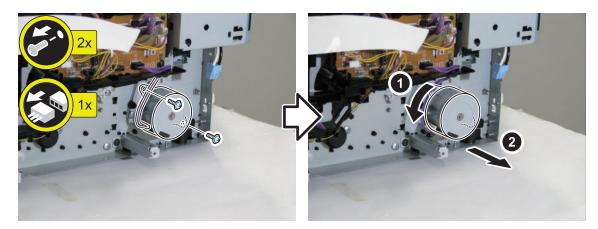
- 1. "Removing the Left Cover" on page 86
- 2. "Removing the Right Cover" on page 88
- 3. "Removing the Low Voltage Power Supply Unit" on page 125

■ Procedure

1. Remove the cover.



2. Remove the Pickup Motor.



Removing the Re-Pickup Unit

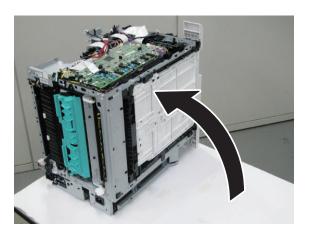
■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the ADF Unit + Reader Unit" on page 97
- 5. "Removing the Upper Front Cover" on page 94
- 6. "Removing the Upper Left Front Cover" on page 95
- 7. "Removing the Upper Right Front Cover" on page 95
- 8. "Removing the Control Panel Unit" on page 127
- 9. "Removing the Upper Cover Unit" on page 96
- 10. "Removing the Rear Cover Unit" on page 90
- 11. "Removing the Controller Cover" on page 121
- 12. "Removing the Main Controller PCB" on page 123
- 13. "Removing the Wireless LAN Support Plate (Wi-Fi model only)" on page 122
- 14. "Removing the Main Controller Support Plate" on page 123

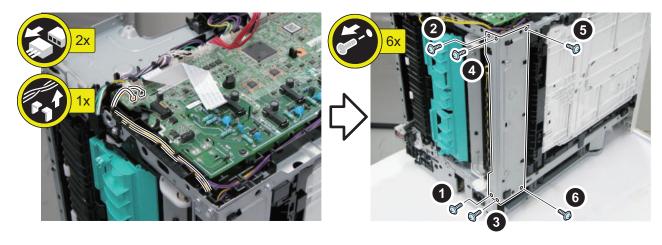
1. Stand the host machine with its right side down.

CAUTION:

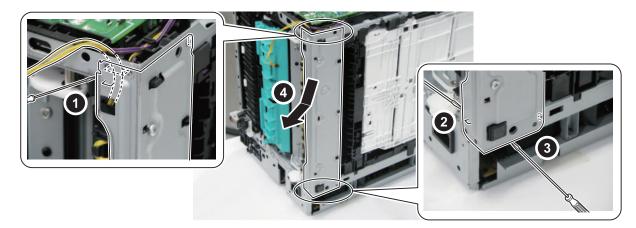
Be careful not to damage the Control Panel and parts.



2. Disconnect the connectors and remove the screws. Be sure to remove the screws in the order from 1 to 6.



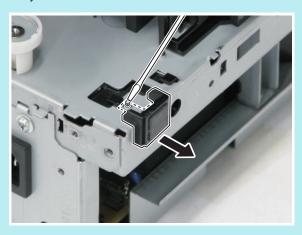
3. Remove the Re-Pickup Unit.



NOTE:

At installation,

- · By removing the block with rubber from the bottom of the host machine, the Re-Pickup Unit can be installed easily.
- · Tighten the screws in the order they were removed.



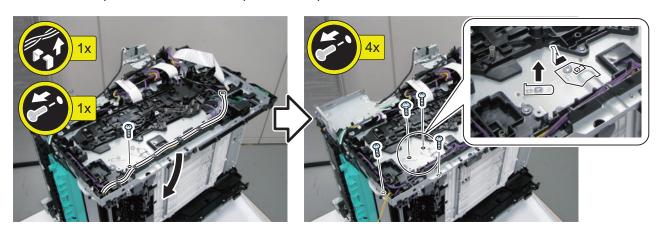
Removing the Lifter Drive Unit

■ Preparation

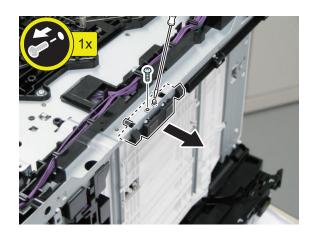
- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the ADF Unit + Reader Unit" on page 97
- 5. "Removing the Upper Front Cover" on page 94
- 6. "Removing the Upper Left Front Cover" on page 95
- 7. "Removing the Upper Right Front Cover" on page 95
- 8. "Removing the Control Panel Unit" on page 127
- 9. "Removing the Upper Cover Unit" on page 96
- 10. "Removing the Rear Cover Unit" on page 90
- 11. "Removing the Controller Cover" on page 121
- 12. "Removing the Main Controller PCB" on page 123
- 13. "Removing the Wireless LAN Support Plate (Wi-Fi model only)" on page 122

- 14. "Removing the Main Controller Support Plate" on page 123
- 15. "Removing the Engine Controller PCB" on page 124
- 16. Pull out the cassette.
- 17. "Removing the Re-Pickup Unit" on page 162

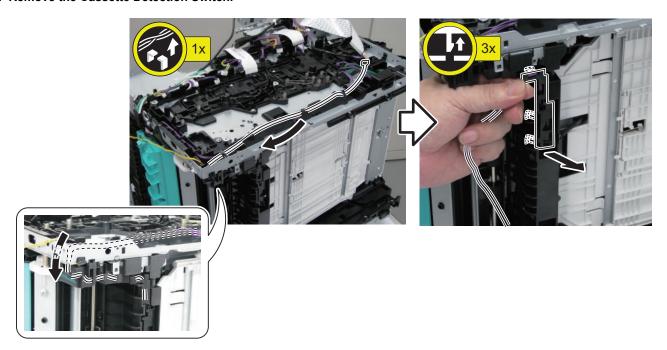
1. Free the harness, and remove the screws, Shaft Cover, and shaft.



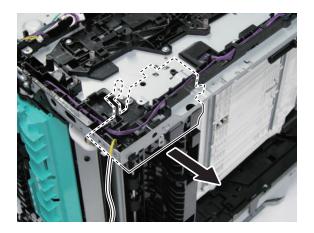
2. Remove the block with rubber.



3. Remove the Cassette Detection Switch.



4. Remove the Lifter Drive Unit.



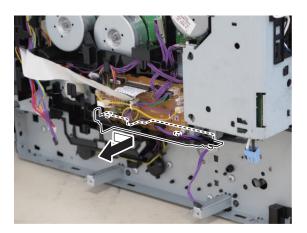
Removing the Cassette Pickup Unit

■ Preparation

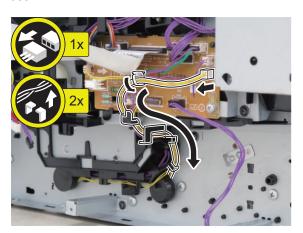
- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the ADF Unit + Reader Unit" on page 97
- 5. "Removing the Upper Front Cover" on page 94
- 6. "Removing the Upper Left Front Cover" on page 95
- 7. "Removing the Upper Right Front Cover" on page 95
- 8. "Removing the Control Panel Unit" on page 127
- 9. "Removing the Upper Cover Unit" on page 96
- 10. "Removing the Rear Cover Unit" on page 90
- 11. "Removing the Controller Cover" on page 121

- 12. "Removing the Main Controller PCB" on page 123
- 13. "Removing the Wireless LAN Support Plate (Wi-Fi model only)" on page 122
- 14. "Removing the Main Controller Support Plate" on page 123
- 15. "Removing the Engine Controller PCB" on page 124
- 16. Pull out the cassette.
- 17. "Removing the Low Voltage Power Supply Unit" on page 125
- 18. "Removing the Re-Pickup Unit" on page 162
- 19. "Removing the Lifter Drive Unit" on page 164
- 20. "Removing the Pickup Motor" on page 161

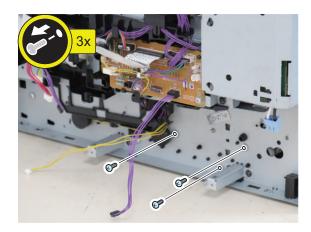
1. Remove the harness guide.



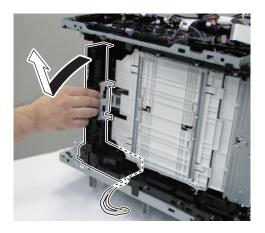
2. Remove the connector and harness.



3. Remove the screws.



4. Stand the host machine with its right side down, and remove the Cassette Pickup Unit.



Removing the Multi-purpose Tray Pickup Roller

■ Procedure

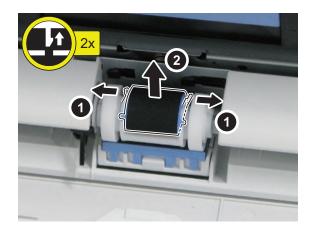
CAUTION:

Be sure not to touch the surface of the Multi-purpose Tray Pickup Roller.



1. Open the Cartridge Cover.

2. Remove the Multi-purpose Tray Pickup Roller.

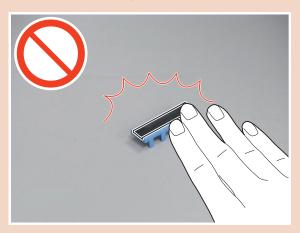


Removing the Multi-purpose Tray Separation Pad

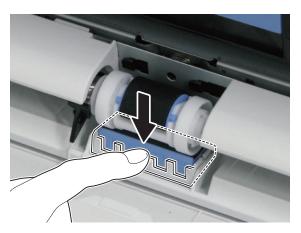
■ Procedure

CAUTION:

Be sure not to touch the surface of the Multi-purpose Tray Separation Pad.



- 1. Open the Cartridge Cover.
- 2. Lower the Multi-purpose Tray Separation Pad.



3. Remove the Multi-purpose Tray Separation Pad.

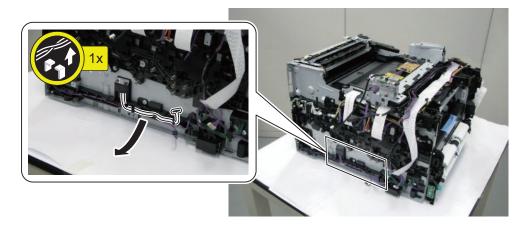


Removing the Registration Unit

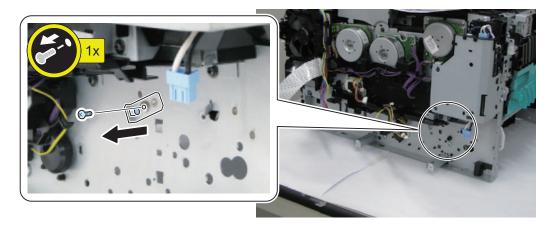
■ Preparation

- 1. "Removing the Toner Cartridge" on page 85
- 2. "Removing the Left Cover" on page 86
- 3. "Removing the Right Cover" on page 88
- 4. "Removing the ADF Unit + Reader Unit" on page 97
- 5. "Removing the Upper Front Cover" on page 94
- 6. "Removing the Upper Left Front Cover" on page 95
- 7. "Removing the Upper Right Front Cover" on page 95
- 8. "Removing the Control Panel Unit" on page 127
- 9. "Removing the Upper Cover Unit" on page 96
- 10. "Removing the Rear Cover Unit" on page 90
- 11. "Removing the Controller Cover" on page 121
- 12. "Removing the Main Controller PCB" on page 123
- 13. "Removing the Wireless LAN Support Plate (Wi-Fi model only)" on page 122
- 14. "Removing the Main Controller Support Plate" on page 123
- 15. "Removing the Engine Controller PCB" on page 124
- 16. "Removing the Low Voltage Power Supply Unit" on page 125
- 17. "Removing the Re-Pickup Unit" on page 162
- 18. "Removing the Lifter Drive Unit" on page 164
- 19. "Removing the Pickup Motor" on page 161
- 20. "Removing the Cassette Pickup Unit" on page 166

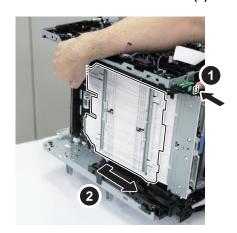
1. Free the harness.



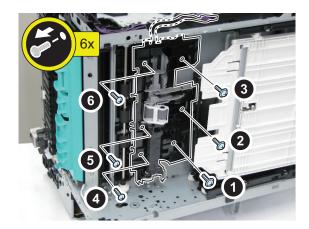
2. Remove the shaft.



- 3. Stand the host machine with its right side down.
- 4. Move the Multi-purpose Tray Feed Guide in the direction of the arrow (2).

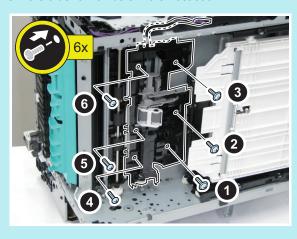


5. Remove the screws in the order of numbers in the illustration.

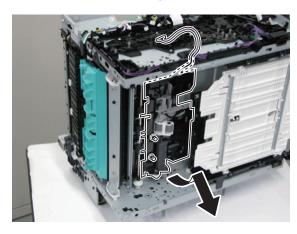


NOTE:

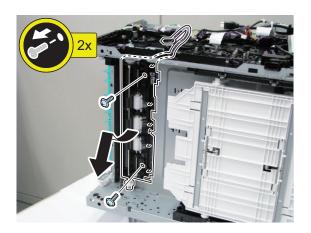
When installing it, tighten the screws in the order of numbers in the illustration.



6. Remove the Feed Front Guide and the Feed Rear Guide together.



7. Remove the Registration Unit.





Adjustment

Adjustment at Parts Replacement.... 175

Adjustment at Parts Replacement



After Replacing the Control Panel

- 1. Execute the following service mode to adjust the coordinate position on the touch panel.
 - COPIER > ADJUST > PANEL > TOUCHCHK
- 2. Check that the service mode setting value is "1" in the following service mode.
 - COPIER > ADJUST > PANEL > TOUCH-R

CAUTION:

When the value is not "1" in the above service mode, re-adjust the coordinate position on the touch panel.



After Replacing the ITB Unit

- 1. Perform the following
 - Adjustment / Maintenance > > Adjust Image Quality > Full Adjust

After Replacing the Color Displacement Density Sensor Unit

- 1. Perform the following
 - Adjustment / Maintenance > > Adjust Image Quality > Full Adjust

Engine Controller PCB

Before Replacing the Engine Controller PCB

The setting values stored in the Engine Controller PCB NVRAM can be backed up to the Main Controller PCB NVRAM. The setting values can be backed up by performing the following method.

• SERVICE MODE > COPIER > FUNCTION > VIFFNC > STOR-DCN

Turn OFF and then ON the power.

CAUTION:

Perform backup immediately before replacing the Engine Controller PCB.

After Replacing the Engine Controller PCB

The setting values of the NVRAM on the Engine Controller PCB are stored in the NVRAM on the Main Controller PCB as a backup.

The setting values can be restored by performing the following method.

SERVICE MODE > COPIER > FUNCTION > VIFFNC > RSTR-DCN

Turn OFF and then ON the power.



Main Controller PCB

■ 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 mode setting values
- · Service mode setting values

These setting values can be restored by performing backup by either of the following methods.

Refer to the Backup List for the details of items that are backed up. "Backup Data List" on page 340

• SERVICE MODE > 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.

■ After Replacing the Main Controller PCB

1. Restore the data in the same way as that of backup. Refer to the Backup List for the setting values that are restored.

Refer to the Backup List for the details of items that are backed up. "Backup Data List" on page 340

- SERVICE MODE > COPIER > FUNCTION > SYSTEM > IMPORT
- Menu > Management Settings > Import/Export > Export
- RUI > Settings/Registration > Management Settings > Import/Export > Export.

Update firmware as necessary.

CAUTION:

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

- 2. Correct coordinate position of Touch Panel in the following service mode.
 - COPIER > ADJUST > PANEL > TOUCHCHK

3. Clear the RCON backup

Execute the following service mode to clear the backup data of RCON.

• COPIER > FUNCTION > CLEAR > RCON

4. Enter the XYZ values

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

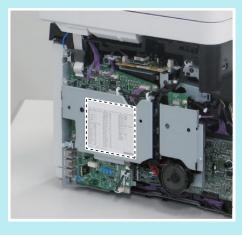
<W-PLT-Z>

• COPIER > ADJUST > CCD > W-PLT-Z

NOTE:

Location where the service label is affixed

The service label is affixed on the Main Controller Cover on the left side of the host machine.



5. Calculate the target value of B&W shading

Turn OFF and then ON the power of the host machine, and then execute the following service mode.

• COPIER > FUNCTION > CCD > BW-TGT

6. Enter the value of the stream reading position

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

<STRD-POS>

• COPIER > ADJUST > ADJ-XY > STRD-POS

7. GC adjustment (paper front)

1. Entering a provisional value

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

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 modes to perform the AGC adjustment (surface).
 - COPIER > FUNCTION > CCD > BW-AGC
 - COPIER > FUNCTION > CCD > CL-AGC

CAUTION:

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

- 3. If the operation was "successful", this procedure is completed. (There is no need to write the value on the service label.)
- 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.

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

If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > BW-AGC again.

Color mode

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

8. AGC adjustment (back side) (duplex scanning ADF model only)

1. Entering a provisional value

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

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 modes to perform the AGC adjustment (surface).
 - COPIER > FUNCTION > CCD > BW-AGC2
 - COPIER > FUNCTION > CCD > CL-AGC2

CAUTION:

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

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

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.

B&W mode

Check the following values. If all values remain unchanged 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

If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > BW-AGC2 again.

Color mode

Check the following values. If all values remain unchanged 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

If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > CL-AGC2 again.

9. Paper back shading initial measurement (duplex scanning ADF model only)

- 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 Jig (FL1-4365) on the Stream Reading Glass and execute the following service mode.
 - COPIER > FUNCTION > CCD > BK-SHD2

CAUTION:

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



- 3. Check COPIER > DISPLAY > CCD > BK-SHDST to determine if it was [1] successful or [0] failed.
- 4. If it failed, clean the Stream Reading Glass and the Paper Back Shading Adjustment Jig (FL1-4365) and execute the initial measurement of the paper back shading again.

10. Entering offset values

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

- <DFTAR-R>
 - COPIER > ADJUST > CCD > DFTAR-R
- <DFTAR-G>
 - COPIER > ADJUST > CCD > DFTAR-G
- <DFTAR-B>
 - COPIER > ADJUST > CCD > DFTAR-B
- <DFTAR-BW>
 - COPIER > ADJUST > CCD > DFTAR-BW
- <DFTBK-R>
 - COPIER > ADJUST > CCD > DFTBK-R
- <DFTBK-G>
 - COPIER > ADJUST > CCD > DFTBK-G
- <DFTBK-B>
 - COPIER > ADJUST > CCD > DFTBK-B
- <DFTBK-BW>
 - COPIER > ADJUST > CCD > DFTBK-BW
- <ADJ-X>
 - COPIER > ADJUST > ADJ-XY > ADJ-X
- <ADJ-Y>
- COPIER > ADJUST > ADJ-XY > ADJ-Y
- <ADJ-X-MG>
- COPIER > ADJUST > ADJ-XY > ADJ-X-MG
- <ADJ-Y-DF>
 - COPIER > ADJUST > ADJ-XY > ADJ-Y-DF
- <ADJY-DF2>
 - COPIER > ADJUST > ADJ-XY > ADJY-DF2
- <DOCST>
 - FEEDER > ADJUST > DOCST
- <DOCST2>
 - FEEDER > ADJUST > DOCST2
- <LA-SPEED>
 - FEEDER > ADJUST > LA-SPEED
- <LA-SPD2>
 - FEEDER > ADJUST > LA-SPD2
- <100-RG>
 - COPIER > ADJUST > CCD > 50-RG
 - COPIER > ADJUST > CCD > 100-RG
- <100-GB>
 - COPIER > ADJUST > CCD > 50-GB
 - COPIER > ADJUST > CCD > 100-GB
- <100DF-RG>
 - COPIER > ADJUST > CCD > 50DF-RG
 - COPIER > ADJUST > CCD > 100DF-RG
- <100DF-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 > 100DF2GB
- <OFST-P-Y>
- COPIER > ADJUST > PASCAL > OFST-P-Y
 <0FST-P-M>
- COPIER > ADJUST > PASCAL > OFST-P-M
 OFST-P-C>
- COPIER > ADJUST > PASCAL > OFST-P-C <OFST-P-K>
 - COPIER > ADJUST > PASCAL > OFST-P-K

11. Enter the MTF values

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

<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

<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

<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

<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

<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

12. Enter the linearity correction values

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

<LNR-GA-R>

- COPIER > ADJUST > CCD > LNR-GA-R
- <LNR-GA-G>
 - COPIER > ADJUST > CCD > LNR-GA-G
- <LNR-GA-B>
 - COPIER > ADJUST > CCD > LNR-GA-B
- <LNR-OF-R>
 - COPIER > ADJUST > CCD > LNR-OF-R
- <LNR-OF-G>
 - COPIER > ADJUST > CCD > LNR-OF-G
- <LNR-OF-B>
 - COPIER > ADJUST > CCD > LNR-OF-B

After Replacing the ADF Unit

NOTE:

Location where the service label is affixed

The service label is affixed on the Main Controller Cover on the left side of the host machine.



1. Automatic adjustment of the stream reading position

- 1. Entering a provisional value
 - COPIER > ADJUST > ADJ-XY > STRD-POS, set the value to "-20".
- 2. Executing the service mode
 - Execute the following service mode.
 - COPIER > FUNCTION > INSTALL > STRD-POS

CAUTION:

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

- 3. If OK or NG is displayed on the UI, whether the operation was successful or failed can be judged based on it. If OK or NG is not displayed, check the following value.
 - COPIER > ADJUST > ADJ-XY > STRD-POS

If the value above is -20 and remains unchanged, it is judged that the operation failed.

- 4. In the case of a failure, turn OFF and then ON the power of the host machine, and execute the following service mode again.
 - COPIER > FUNCTION > INSTALL > STRD-POS
- 5. If the operation is successful

Write the following value on the service label.

• COPIER > ADJUST > ADJ-XY > STRD-POS

2. AGC adjustment (back side) (duplex scanning ADF model only)

1. Entering a provisional value

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

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 modes to perform the AGC adjustment (surface).
 - COPIER > FUNCTION > CCD > BW-AGC2
 - COPIER > FUNCTION > CCD > CL-AGC2

CAUTION:

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

- 3. If the operation was "successful", this procedure is completed. (There is no need to write the value on the service label.)
- 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.

B&W mode

Check the following values. If all values remain unchanged 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

If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > BW-AGC2 again.

Color mode

Check the following values. If all values remain unchanged 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

If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > CL-AGC2 again.

3. Paper back shading initial measurement (duplex scanning ADF model only)

- 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 Jig (FL1-4365) on the Stream Reading Glass and execute the following service mode.
 - COPIER > FUNCTION > CCD > BK-SHD2

CAUTION:

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



- 3. Check COPIER > DISPLAY > CCD > BK-SHDST to determine if it was [1] successful or [0] failed.
- 4. If it failed, clean the Stream Reading Glass and the Paper Back Shading Adjustment Jig (FL1-4365) and execute the initial measurement of the paper back shading again.

4. DF white level (DF shading target) adjustment

- 1. Enter the values in the following service mode items respectively, and then adjust the white level.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-R to 299.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-G to 309.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-B to 307.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-BW to 315.

In the case of the duplex scanning ADF model also change the following settings.

- Set the value of COPIER > ADJUST > CCD > DFTBK-R to 299.
- Set the value of COPIER > ADJUST > CCD > DFTBK-G to 309.
- Set the value of COPIER > ADJUST > CCD > DFTBK-B to 307.
- Set the value of COPIER > ADJUST > CCD > DFTBK-BW to 315.
- 2. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Copyboard Glass of the reader and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL1
- 3. Place the same blank paper on the ADF and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL2
- 4. If the operation was successful, write the setting value on the service label.

5. 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.

- COPIER > ADJUST > CCD > DFTAR-R
- · COPIER > ADJUST > CCD > DFTAR-G
- COPIER > ADJUST > CCD > DFTAR-B
- COPIER > ADJUST > CCD > DFTAR-BW

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

- 6. In the case of a failure, turn OFF and then ON the power, and execute the following service mode items in sequence. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Copyboard Glass of the reader and execute the service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL1

Place the same blank paper on the ADF and execute the service mode.

- COPIER > FUNCTION > CCD > DF-WLVL2
- 7. In the case of the duplex scanning ADF model, check the following:
 - COPIER > ADJUST > CCD > DFTBK-R
 - COPIER > ADJUST > CCD > DFTBK-G
 - COPIER > ADJUST > CCD > DFTBK-B
 - COPIER > ADJUST > CCD > DFTBK-BW

If all the values remain the same as those you entered, the operation result is judged to be "failed".

In the case of the 1-PASS ADF 1-sided model, the operation result is judged to be OK even if this value does not change.

- 8. In the case of a failure, turn OFF and then ON the power, and execute the following service mode items again.
 - COPIER > FUNCTION > CCD > DF-WLVL1
 - COPIER > FUNCTION > CCD > DF-WLVL2

5. ADF (front/back) geometric adjustment

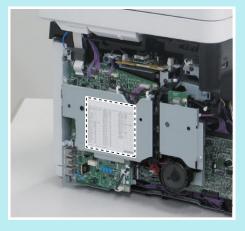
- 1. On an image copied using the ADF, check the non-image width in the X and Y directions and the expansion/contraction in the X direction. If adjustment is needed, enter the following adjustment values.
 - COPIER > ADJUST > ADJ-XY > ADJ-Y-DF
 - COPIER > ADJUST > ADJ-XY > ADJY-DF2
 - FEEDER > ADJUST > DOCST
 - FEEDER > ADJUST > DOCST2
 - FEEDER > ADJUST > LA-SPEED
 - FEEDER > ADJUST > LA-SPD2
- 2. If you enter adjustment values, write the final values on the service label.

After Replacing the Reader CIS Unit

NOTE:

Location where the service label is affixed

The service label is affixed on the Main Controller Cover on the left side of the host machine.



1. Automatic adjustment of the stream reading position

- 1. Entering a provisional value
 - In COPIER > ADJUST > ADJ-XY > STRD-POS, set the value to "-20".

2. Executing the service mode

Execute the following service mode.

• COPIER > FUNCTION > INSTALL > STRD-POS

CAUTION:

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

- 3. If OK or NG is displayed on the UI, whether the operation was successful or failed can be judged based on it. If OK or NG is not displayed, check the following value.
 - COPIER > ADJUST > ADJ-XY > STRD-POS

If the value above is -20 and remains unchanged, it is judged that the operation failed.

- 4. In the case of a failure, turn OFF and then ON the power of the host machine, and execute the following service mode again.
 - COPIER > FUNCTION > INSTALL > STRD-POS
- 5. If the operation is successful

Write the following value on the service label.

COPIER > ADJUST > ADJ-XY > STRD-POS

2. AGC adjustment (paper front)

1. Entering a provisional value

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

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 modes to perform the AGC adjustment (surface).
 - COPIER > FUNCTION > CCD > BW-AGC
 - COPIER > FUNCTION > CCD > CL-AGC

CAUTION:

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

- 3. If the operation was "successful", this procedure is completed. (There is no need to write the value on the service label.)
- 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.

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

If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > BW-AGC again.

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

If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > CL-AGC again.

3. Paper back shading initial measurement (duplex scanning ADF model only)

- 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 Jig (FL1-4365) on the Stream Reading Glass and execute the following service mode.
 - COPIER > FUNCTION > CCD > BK-SHD2

CAUTION:

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



- 3. Check COPIER > DISPLAY > CCD > BK-SHDST to determine if it was [1] successful or [0] failed.
- 4. If it failed, clean the Stream Reading Glass and the Paper Back Shading Adjustment Jig (FL1-4365) and execute the initial measurement of the paper back shading again.

4. DF white level (DF shading target) adjustment.

- 1. Enter the values in the following service mode items respectively, and then adjust the white level
 - Set the value of COPIER > ADJUST > CCD > DFTAR-R to 299.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-G to 309.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-B to 307.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-BW to 315.

In the case of the duplex scanning ADF model, also change the following settings.

- Set the value of COPIER > ADJUST > CCD > DFTBK-R to 299.
- Set the value of COPIER > ADJUST > CCD > DFTBK-G to 309.
- Set the value of COPIER > ADJUST > CCD > DFTBK-B to 307.
- Set the value of COPIER > ADJUST > CCD > DFTBK-BW to 315.
- 2. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Copyboard Glass of the reader and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL1
- 3. Place the same blank paper on the ADF and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL2
- 4. If the operation was successful, write the setting value on the service label.

5. 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.

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

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

- 6. In the case of a failure, turn OFF and then ON the power, and execute the following service mode items in sequence. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Copyboard Glass of the reader and execute the service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL1

Place the same blank paper on the ADF and execute the service mode.

- COPIER > FUNCTION > CCD > DF-WLVL2
- 7. In the case of the duplex scanning ADF model, check the following:
 - COPIER > ADJUST > CCD > DFTBK-R
 - COPIER > ADJUST > CCD > DFTBK-G
 - COPIER > ADJUST > CCD > DFTBK-B
 - COPIER > ADJUST > CCD > DFTBK-BW

If all the values remain the same as those you entered, the operation result is judged to be "failed".

In the case of the single sided scanning ADF modell, the operation result is judged to be OK even if this value does not change.

- 8. In the case of a failure, turn OFF and then ON the power, and execute the following service mode items again.
 - COPIER > FUNCTION > CCD > DF-WLVL1
 - COPIER > FUNCTION > CCD > DF-WLVL2

5. Copyboard geometric adjustment

Enter the values shown on the label that comes with the part in the following service mode items.

Enter the values of ADJ-X, ADJ-Y, and ADJ-X-MG shown on the replacement label in the following service modes.

- COPIER > ADJUST > ADJ-XY > ADJ-X
- COPIER > ADJUST > ADJ-XY > ADJ-Y
- COPIER > ADJUST > ADJ-XY > ADJ-X-MG

Write the entered values on the service label.

6. ADF (front/back) geometric adjustment

- 1. On an image 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 needed, enter the following adjustment values.
 - 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. If you enter adjustment values, write the final values on the service label.



After Replacing the Reader Upper Cover Unit

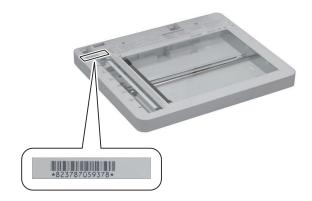
NOTE:

Location where the service label is affixed

The service label is affixed on the Main Controller Cover on the left side of the host machine.



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.
 - COPIER > ADJUST > CCD > W-PLT-X
 - COPIER > ADJUST > CCD > W-PLT-Y
 - COPIER > ADJUST > CCD > W-PLT-Z

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

3. Calculate the target value of B&W shading

Turn OFF and then ON the power of the host machine, and then execute the following service mode.

- COPIER > FUNCTION > CCD > BW-TGT
- 4. Automatic adjustment of the stream reading position
 - 1. Entering a provisional value
 - In COPIER > ADJUST > ADJ-XY > STRD-POS, set the value to "-20".

2. Executing the service mode

Execute the following service mode.

• COPIER > FUNCTION > INSTALL > STRD-POS

CAUTION:

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

- 3. If OK or NG is displayed on the UI, whether the operation was successful or failed can be judged based on it. If OK or NG is not displayed, check the following value.
 - COPIER > ADJUST > ADJ-XY > STRD-POS

If the value above is -20 and remains unchanged, it is judged that the operation failed.

- 4. In the case of a failure, turn OFF and then ON the power of the host machine, and execute the following service mode again.
 - COPIER > FUNCTION > INSTALL > STRD-POS
- 5. If the operation is successful

Write the following value on the service label.

COPIER > ADJUST > ADJ-XY > STRD-POS

5. AGC adjustment (paper front)

1. Entering a provisional value

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

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 modes to perform the AGC adjustment (surface).
 - COPIER > FUNCTION > CCD > BW-AGC
 - COPIER > FUNCTION > CCD > CL-AGC

CAUTION:

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

- 3. If the operation was "successful", this procedure is completed. (There is no need to write the value on the service label.)
- 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.

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

If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > BW-AGC again.

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

If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > BW-AGC again.

6. AGC adjustment (back side) (duplex scanning ADF model only)

1. Entering a provisional value

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

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 modes to perform the AGC adjustment (surface).
 - COPIER > FUNCTION > CCD > BW-AGC2
 - COPIER > FUNCTION > CCD > CL-AGC2

CAUTION:

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

- 3. If the operation was "successful", this procedure is completed. (There is no need to write the value on the service label.)
- 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.

B&W mode

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

If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > BW-AGC2 again.

Color mode

Check the following values. If all values remain unchanged 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

If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > CL-AGC2 again.

7. Paper back shading initial measurement (duplex scanning ADF model only)

- 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 Jig (FL1-4365) on the Stream Reading Glass and execute the following service mode.
 - COPIER > FUNCTION > CCD > BK-SHD2

CAUTION:

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



- 3. Check COPIER > DISPLAY > CCD > BK-SHDST to determine if it was [1] successful or [0] failed.
- 4. If it failed, clean the Stream Reading Glass and the Paper Back Shading Adjustment Jig (FL1-4365) and execute the initial measurement of the paper back shading again.

8. DF white level (DF shading target) adjustment

- 1. Enter the values in the following service mode items respectively, and then adjust the white level
 - Set the value of COPIER > ADJUST > CCD > DFTAR-R to 299.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-G to 309.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-B to 307.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-BW to 315.

In the case of theduplex scanning ADF model, also change the following settings.

- Set the value of COPIER > ADJUST > CCD > DFTBK-R to 299.
- Set the value of COPIER > ADJUST > CCD > DFTBK-G to 309.
- Set the value of COPIER > ADJUST > CCD > DFTBK-B to 307.
- Set the value of COPIER > ADJUST > CCD > DFTBK-BW to 315.
- 2. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Copyboard Glass of the reader and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL1
- 3. Place the same blank paper on the ADF and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL2
- 4. If the operation was successful, write the setting value on the service label.

5. 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.

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

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

- 6. In the case of a failure, turn OFF and then ON the power, and execute the following service mode items in sequence. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Copyboard Glass of the reader and execute the service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL1

Place the same blank paper on the ADF and execute the service mode.

- COPIER > FUNCTION > CCD > DF-WLVL2
- 7. In the case of the duplex scanning ADF model, check the following:
 - COPIER > ADJUST > CCD > DFTBK-R
 - COPIER > ADJUST > CCD > DFTBK-G
 - COPIER > ADJUST > CCD > DFTBK-B
 - COPIER > ADJUST > CCD > DFTBK-BW

If all the values remain the same as those you entered, the operation result is judged to be "failed".

In the case of the single sided scanning ADF model, the operation result is judged to be OK even if this value does not change.

- 8. In the case of a failure, turn OFF and then ON the power, and execute the following service mode items again.
 - COPIER > FUNCTION > CCD > DF-WLVL1
 - COPIER > FUNCTION > CCD > DF-WLVL2

9. Copyboard geometric adjustment

Enter the values shown on the label that comes with the part in the following service mode items.

Enter the values of ADJ-X, ADJ-Y, and ADJ-X-MG shown on the replacement label in the following service modes.

- COPIER > ADJUST > ADJ-XY > ADJ-X
- COPIER > ADJUST > ADJ-XY > ADJ-Y
- COPIER > ADJUST > ADJ-XY > ADJ-X-MG

Write the entered values on the service label.

10. ADF (front/back) geometric adjustment

- 1. On an image 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 needed, enter the following adjustment values.
 - 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. If you enter adjustment values, write the final values on the service label.

After Replacing the Reader Unit

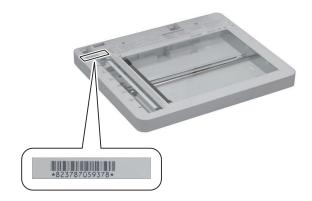
NOTE:

Location where the service label is affixed

The service label is affixed on the Main Controller Cover on the left side of the host machine.



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.
 - COPIER > ADJUST > CCD > W-PLT-X
 - COPIER > ADJUST > CCD > W-PLT-Y
 - COPIER > ADJUST > CCD > W-PLT-Z

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

3. Calculate the target value of B&W shading

Turn OFF and then ON the power of the host machine, and then execute the following service mode.

- COPIER > FUNCTION > CCD > BW-TGT
- 4. Automatic adjustment of the stream reading position
 - 1. Entering a provisional value
 - COPIER > ADJUST > ADJ-XY > STRD-POS, set the value to "-20".

2. Executing the service mode

Execute the following service mode.

• COPIER > FUNCTION > INSTALL > STRD-POS

CAUTION:

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

- 3. If OK or NG is displayed on the UI, whether the operation was successful or failed can be judged based on it. If OK or NG is not displayed, check the following value.
 - COPIER > ADJUST > ADJ-XY > STRD-POS

If the value above is -20 and remains unchanged, it is judged that the operation failed.

- 4. In the case of a failure, turn OFF and then ON the power of the host machine, and execute the following service mode
 - COPIER > FUNCTION > INSTALL > STRD-POS
- 5. If the operation is successful

Write the following value on the service label.

COPIER > ADJUST > ADJ-XY > STRD-POS

5. AGC adjustment (paper front)

1. Entering a provisional value

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

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 modes to perform the AGC adjustment (surface).
 - COPIER > FUNCTION > CCD > BW-AGC
 - COPIER > FUNCTION > CCD > CL-AGC

CAUTION:

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

- 3. If the operation was "successful", this procedure is completed. (There is no need to write the value on the service label.)
- 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.

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

If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > BW-AGC again.

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

If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > CL-AGC again.

6. AGC adjustment (back side) (For the duplex scanning ADF model only)

1. Entering a provisional value

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

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 modes to perform the AGC adjustment (surface).
 - COPIER > FUNCTION > CCD > BW-AGC2
 - COPIER > FUNCTION > CCD > CL-AGC2

CAUTION:

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

- 3. If the operation was "successful", this procedure is completed. (There is no need to write the value on the service label.)
- 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.

B&W mode

Check the following values. If all values remain unchanged 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

If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > BW-AGC2 again.

Color mode

Check the following values. If all values remain unchanged 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

If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > CL-AGC2 again.

7. Paper back shading initial measurement (duplex scanning ADF model only)

- 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 Jig (FL1-4365) on the Stream Reading Glass and execute the following service mode.
 - COPIER > FUNCTION > CCD > BK-SHD2

CAUTION:

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



- 3. Check COPIER > DISPLAY > CCD > BK-SHDST to determine if it was [1] successful or [0] failed.
- 4. If it failed, clean the Stream Reading Glass and the Paper Back Shading Adjustment Jig (FL1-4365) and execute the initial measurement of the paper back shading again.

8. DF white level (DF shading target) adjustment

- 1. Enter the values in the following service mode items respectively, and then adjust the white level
 - Set the value of COPIER > ADJUST > CCD > DFTAR-R to 299.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-G to 309.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-B to 307.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-BWto 315.

In the case of the duplex scanning ADF model, also change the following settings.

- Set the value of COPIER > ADJUST > CCD > DFTBK-R to 299.
- Set the value of COPIER > ADJUST > CCD > DFTBK-G to 309.
- Set the value of COPIER > ADJUST > CCD > DFTBK-B to 307.
- Set the value of COPIER > ADJUST > CCD > DFTBK-BWto 315.
- 2. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Copyboard Glass of the reader and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL1
- 3. Place the same blank paper on the ADF and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL2
- 4. If the operation was successful, write the setting value on the service label.

5. 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.

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

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

- 6. In the case of a failure, turn OFF and then ON the power, and execute the following service mode items in sequence. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Copyboard Glass of the reader and execute the service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL1

Place the same blank paper on the ADF and execute the service mode.

- COPIER > FUNCTION > CCD > DF-WLVL2
- 7. In the case of the duplex scanning ADF model, check the following:
 - COPIER > ADJUST > CCD > DFTBK-R
 - COPIER > ADJUST > CCD > DFTBK-G
 - COPIER > ADJUST > CCD > DFTBK-B
 - COPIER > ADJUST > CCD > DFTBK-BW

If all the values remain the same as those you entered, the operation result is judged to be "failed".

In the case of the single sided scanning model, the operation result is judged to be OK even if this value does not change.

- 8. In the case of a failure, turn OFF and then ON the power, and execute the following service mode items again.
 - COPIER > FUNCTION > CCD > DF-WLVL1
 - COPIER > FUNCTION > CCD > DF-WLVL2

9. Copyboard geometric adjustment

Enter the values shown on the label that comes with the part in the following service mode items.

100-RG

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

100-GB

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

Write the entered values on the service label.

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

10. DF white level (DF shading target) adjustment

- 1. Enter the values in the following service mode items respectively, and then adjust the white level
 - Set the value of COPIER > ADJUST > CCD > DFTAR-R to 299.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-G to 309.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-B to 307.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-BW to 315.

In the case of the duplex scanning ADF model, also change the following settings.

- Set the value of COPIER > ADJUST > CCD > DFTBK-R to 299.
- Set the value of COPIER > ADJUST > CCD > DFTBK-G to 309.
- Set the value of COPIER > ADJUST > CCD > DFTBK-B to 307.
- Set the value of COPIER > ADJUST > CCD > DFTBK-BW to 315.
- 2. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Copyboard Glass of the reader and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL1
- 3. Place the same blank paper on the ADF and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL2
- 4. If the operation was successful, write the setting value on the service label.

5. 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.

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

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

- 6. In the case of a failure, turn OFF and then ON the power, and execute the following service mode items in sequence. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Copyboard Glass of the reader and execute the service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL1

Place the same blank paper on the ADF and execute the service mode.

- COPIER > FUNCTION > CCD > DF-WLVL2
- 7. In the case of the duplex scanning ADF model, check the following:
 - COPIER > ADJUST > CCD > DFTBK-R
 - COPIER > ADJUST > CCD > DFTBK-G
 - COPIER > ADJUST > CCD > DFTBK-B
 - COPIER > ADJUST > CCD > DFTBK-BW

If all the values remain the same as those you entered, the operation result is judged to be "failed".

In the case of the 1-PASS ADF 1-sided model, the operation result is judged to be OK even if this value does not change.

- 8. In the case of a failure, turn OFF and then ON the power, and execute the following service mode items again.
 - COPIER > FUNCTION > CCD > DF-WLVL1
 - COPIER > FUNCTION > CCD > DF-WLVL2

11. Copyboard geometric adjustment

Enter the values shown on the label that comes with the part in the following service mode items.

Enter the values of ADJ-X, ADJ-Y, and ADJ-X-MG shown on the replacement label in the following service modes.

- COPIER > ADJUST > ADJ-XY > ADJ-X
- COPIER > ADJUST > ADJ-XY > ADJ-Y
- COPIER > ADJUST > ADJ-XY > ADJ-X-MG

Write the entered values on the service label.

12. ADF (front/back) geometric adjustment

- 1. On an image 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 needed, enter the following adjustment values.
 - 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. If you enter adjustment values, write the final values on the service label.

13. Copyboard color displacement offset adjustment

Enter the values shown on the label that comes with the part in the following service mode items.

100-RG

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

100-GB

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

Write the entered values on the service label.

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

14. ADF (front/back) color displacement offset adjustment

Enter the values shown on the label that comes with the part in the following service mode items.

Enter the value of 100DF-RG shown on the replacement label in the following service modes.

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

Enter the value of 100DF-GB shown on the replacement label in the following service modes.

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

In the case of the duplex scanning ADF model

Enter the values shown on the label that comes with the part in the following service mode items.

Enter the value of 100DF2RG shown on the replacement label in the following service modes.

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

Enter the value of 100DF2GB shown on the replacement label in the following service modes.

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

15. PASCAL adjustment

Enter the values shown on the label that comes with the part in the following service mode items.

Enter the values of OFST-P-Y, OFST-P-M, OFST-P-C, and OFST-P-K shown on the replacement label in the following service modes.

- COPIER > ADJUST > PASCAL > OFST-P-Y
- COPIER > ADJUST > PASCAL > OFST-P-M
- COPIER > ADJUST > PASCAL > OFST-P-C
- COPIER > ADJUST > PASCAL > OFST-P-K

Write the entered values on the service label.

16. Enter the MTF values

Enter the following values shown on the replacement label that comes with the part in the following service mode items <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

<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

Write the entered values on the service label.

17. Enter the linearity correction values

Enter the following 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



After Replacing the ADF CIS Unit

NOTF:

Location where the service label is affixed

The service label is affixed on the Main Controller Cover on the left side of the host machine.



1. Automatic adjustment of the stream reading position

- 1. Entering a provisional value
 - In COPIER > ADJUST > ADJ-XY > STRD-POS, set the value to "-20".
- 2. Executing the service mode

Execute the following service mode.

• COPIER > FUNCTION > INSTALL > STRD-POS

CAUTION:

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

- 3. If OK or NG is displayed on the UI, whether the operation was successful or failed can be judged based on it. If OK or NG is not displayed, check the following value.
 - COPIER > ADJUST > ADJ-XY > STRD-POS

If the value above is -20 and remains unchanged, it is judged that the operation failed.

- 4. In the case of a failure, turn OFF and then ON the power of the host machine, and execute the following service mode
 - COPIER > FUNCTION > INSTALL > STRD-POS
- 5. If the operation is successful

Write the following value on the service label.

COPIER > ADJUST > ADJ-XY > STRD-POS

2. AGC adjustment (back side) (duplex scanning ADF model only)

1. Entering a provisional value

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

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 modes to perform the AGC adjustment (surface).
 - COPIER > FUNCTION > CCD > BW-AGC2
 - COPIER > FUNCTION > CCD > CL-AGC2

CAUTION:

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

- 3. If the operation was "successful", this procedure is completed. (There is no need to write the value on the service label.)
- 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.

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

If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > BW-AGC again.

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

If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > CL-AGC again.

- 3. Paper back shading initial measurement (duplex scanning ADF model only)
 - 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 Jig (FL1-4365) on the Stream Reading Glass and execute the following service mode.
 - COPIER > FUNCTION > CCD > BK-SHD2

CAUTION:

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



- 3. Check COPIER > DISPLAY > CCD > BK-SHDST to determine if it was [1] successful or [0] failed.
- 4. If it failed, clean the Stream Reading Glass and the Paper Back Shading Adjustment Jig (FL1-4365) and execute the initial measurement of the paper back shading again.

4. DF white level (DF shading target) adjustment

- 1. Enter the values in the following service mode items respectively, and then adjust the white level
 - Set the value of COPIER > ADJUST > CCD > DFTAR-R to 299.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-G to 309.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-B to 307.
 - Set the value of COPIER > ADJUST > CCD > DFTAR-BW to 315.

In the case of the duplex scanning ADF model, also change the following settings.

- Set the value of COPIER > ADJUST > CCD > DFTBK-R to 299.
- Set the value of COPIER > ADJUST > CCD > DFTBK-G to 309.
- Set the value of COPIER > ADJUST > CCD > DFTBK-B to 307.
- Set the value of COPIER > ADJUST > CCD > DFTBK-BW to 315.
- 2. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Copyboard Glass of the reader and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL1
- 3. Place the same blank paper on the ADF and execute the following service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL2
- 4. If the operation was successful, write the setting value on the service label.

5. 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.

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

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

- 6. In the case of a failure, turn OFF and then ON the power, and execute the following service mode items in sequence. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Copyboard Glass of the reader and execute the service mode.
 - COPIER > FUNCTION > CCD > DF-WLVL1

Place the same blank paper on the ADF and execute the service mode.

- COPIER > FUNCTION > CCD > DF-WLVL2
- 7. In the case of the single sided scanning ADF model, check the following:
 - COPIER > ADJUST > CCD > DFTBK-R
 - COPIER > ADJUST > CCD > DFTBK-G
 - COPIER > ADJUST > CCD > DFTBK-B
 - COPIER > ADJUST > CCD > DFTBK-BW

If all the values remain the same as those you entered, the operation result is judged to be "failed".

In the case of the single sided scanning ADF model, the operation result is judged to be OK even if this value does not change.

- 8. In the case of a failure, turn OFF and then ON the power, and execute the following service mode items again.
 - COPIER > FUNCTION > CCD > DF-WLVL1
 - COPIER > FUNCTION > CCD > DF-WLVL2

5. ADF (front/back) geometric adjustment

- 1. On an image 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 needed, enter the following adjustment values.
 - 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. If you enter adjustment values, write the final 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.

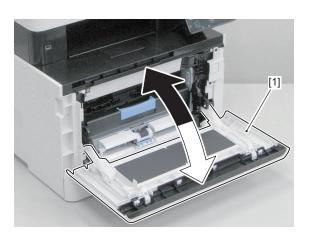
There are two types of engine test print: 1-sided print and 2-sided print*.

- *: Duplex models only
- 1. Load A4/LTR paper in the Pickup Tray or Multi-purpose Tray Pickup Tray.
- 2. While the machine is in the standby mode, open and close the Front Cover [1] for the predetermined number of times in a row.

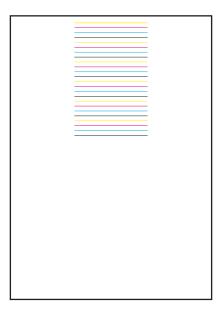
CAUTION:

Be sure to perform the next cycle of open/close within 1.5 seconds after the last cycle of open/close.

- 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.



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 Pattern	Image check items													
TYPE		Gra- dation	Fog- ging	Trans fer Fault	Black line (Color line)	White line	Un- even Den- sity	Un- even Den- sity at the Front / Rea	Angle	Straig ht Lines	Color dis- place- ment	Color	Ghost	Den- sity	White spots
0-1	For R&D use														
2	Color chart											Yes			
3	For R&D use														
4	Rainbow chart (vertical scanning direction, A4)										Yes				
5	Rainbow chart (horizontal scan- ning direction, A4)										Yes				
6	Color grid (A4)								Yes	Yes	Yes				
7	Rainbow chart (vertical scanning direction, LTR/ LGL)										Yes				
8	Rainbow chart (horizontal scan- ning direction, LTR/LGL)										Yes				
9	Color grid (LTR/ LGL)								Yes	Yes	Yes				
10	16 gradations	Yes	Yes			Yes		Yes							
11	17 gradations of Y/M/C/Bk/R/G/B	Yes													
12	Halftone			Yes	Yes	Yes	Yes	Yes							

PG	TYPE Pattern	Image check items													
TYPE		Gra- dation	Fog- ging	Trans fer Fault	Black line (Color line)	White line	Un- even Den- sity	Un- even Den- sity at the Front / Rea	Right Angle	Straig ht Lines	Color dis- place- ment	Color	Ghost	Den- sity	White spots
13	For checking ghost due to transfer failure												Yes		
14	For checking the density patch							Yes						Yes	
15	For checking transfer				Yes	Yes		Yes							
20	For R&D use														
21	For checking developing performance (white spots)	Yes													Yes
22	For checking resolution				Yes	Yes	Yes								
23	For checking banding image				Yes	Yes	Yes								
24	4 colors (land- scape)			Yes	Yes	Yes		Yes							
25	4 colors (portrait)			Yes	Yes	Yes	Yes								
26	For calibrating color difference between the front and back sides with DADF (1-path model)														

Follow the procedure shown below to output the test print.

1. Select the following service mode.

TESTMODE > PRINT > PG-TYPE

2. Enter the type number of the test print 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

Setting of ON/OFF of the laser scanning interpolation process:

TESTMODE > PRINT > NRKE

• Setting of ON/OFF of the test print interpolation process:

TESTMODE > PRINT > BLND

• 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.

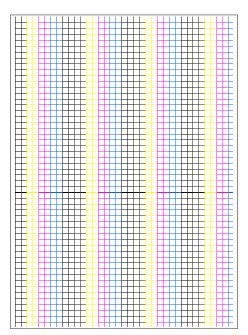
TESTMODE > PRINT > START

- How to use the test print
- Color chart (TYPE=2)



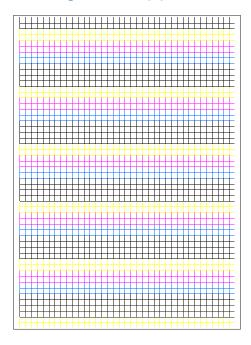
Check item	Checking method	Assumed cause
Color	Check the color.	Cartridge error
		Soiling on the Color Displacement/Density Sensor
		ITB Unit error
		Reader error

• Rainbow chart (vertical scanning direction) (TYPE=4, TYPE=7)



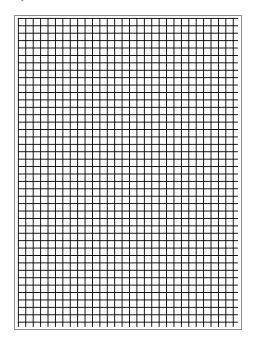
Check item	Checking method	Assumed cause
Color displacement	Output the PG after performing color displacement correction,	Soiling on the Color Displacement/Density Sensor
	and check the displacement for each color in the feed direc-	Cartridge error
	tion.	ITB Unit error
		Main Drive Unit error

• Rainbow chart (horizontal scanning direction) (TYPE=5, TYPE=8)



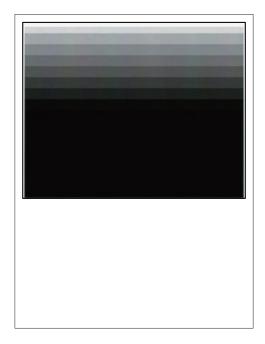
Check item	Checking method	Assumed cause
Color displacement	Output the PG after performing color displacement correction,	Soiling on the Color Displacement/Density Sensor
	and check the displacement for each color in the shaft direc-	Cartridge error
	tion.	ITB Unit error
		Laser Scanner Unit error
		Main Controller PCB error

• Color grid (TYPE=6, TYPE=9)



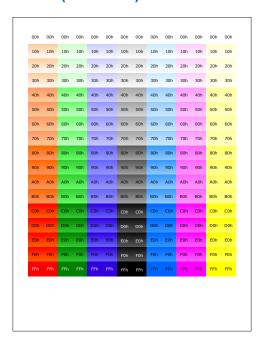
Check item	Checking method	Assumed cause
Color displacement		Laser Scanner Unit error ITB Unit error Soiling on the Registration Sensor Secondary Transfer Roller error Main Drive Unit (drum rotation) error
	Check that there is nothing wrong with the right angle accuracy and linearity between the lines of the respective colors.	Laser Scanner Unit error Registration Roller error Secondary Transfer Roller error

• 16 gradations (TYPE=10)



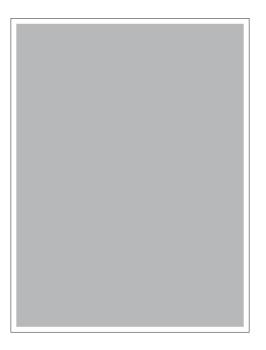
Check item	Checking method	Assumed cause
Gradation	Check that the 16 density gradations are recognizable.	Photosensitive Drum error Laser Scanner Unit error
Fogging	Check whether fogging appears only in the blank area.	Photosensitive Drum error Laser Scanner Unit error
White line	Check the entire image for any white line.	Photosensitive Drum error Laser Scanner Unit error
Uneven density be- tween the front and rear	Check for any uneven density between the rear and front sides.	Photosensitive Drum error Laser Scanner Unit error Soiling on the laser light path

• 17 gradations of Y/M/C/Bk/R/G/B (TYPE=11)



Check item	Checking method	Assumed cause
Gradation	, , ,	Photosensitive Drum error Laser Scanner Unit error

• Halftone (TYPE=12)



NOTE:

Various settings can be configured in the following service mode.

• Output of each developing color:

TESTMODE > PRINT > SW-Y

TESTMODE > PRINT > SW-M

TESTMODE > PRINT > SW-C

TESTMODE > PRINT > SW-K

• Print density setting:

TESTMODE > PRINT > DENS-Y

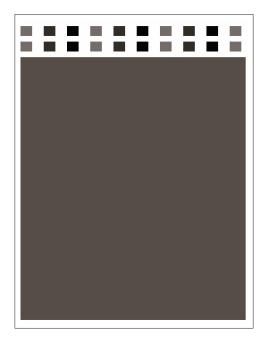
TESTMODE > PRINT > DENS-M

TESTMODE > PRINT > DENS-C

TESTMODE > PRINT > DENS-K

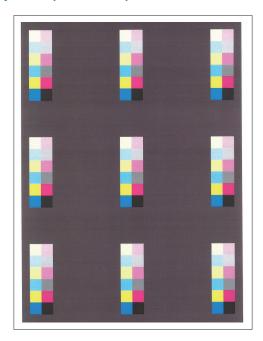
Check item	Checking method	Assumed cause
Transfer failure	Check the entire image for any transfer failure.	ITB error (scratches or soiling) Primary Transfer Pad error (scratches or soiling) Secondary Transfer Roller error (scratches or soiling)
Black line (colored line)	Check the entire image for any black line.	Scratches on the Photosensitive Drum
White line	Check the entire image for any white line.	ITB Unit error Secondary Transfer Roller error Soiling on the laser light path
Uneven density at regular intervals	Check the entire image for any uneven density at regular intervals.	Photosensitive Drum error
Uneven density	Check the entire image for any uneven density.	Soiling on the Dustproof Glass Deterioration of the ITB

• For checking ghost due to transfer failure (TYPE=13)



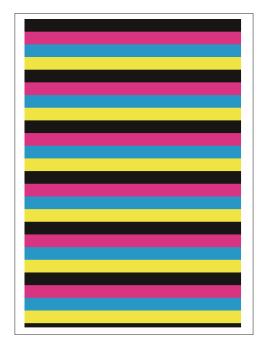
Check item	Checking method	Assumed cause
Ghost	Check the degree of ghosting (area where the density is too	Cartridge error
	high or low) in halftone areas.	ITB Unit error

• For checking the density patch (TYPE=14)



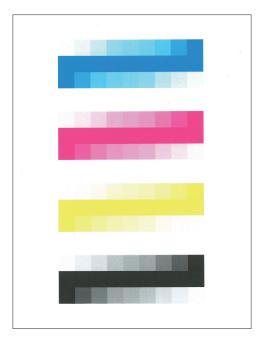
Check item	Checking method	Assumed cause
Density	Check the density of each patch after calibration.	Cartridge error
		ITB Unit error
		Secondary Transfer Roller error
		Soiling on the Color Displacement/Density Sensor
		Reader error
Uneven density	Check the difference in density among patches.	Cartridge error
		ITB Unit error

• For checking transfer (TYPE=15)



Check item	Checking method	Assumed cause
Uneven density		Laser Scanner Unit error Cartridge error Primary Transfer Pad error
Black line (colored line)	Check that there is no black line (colored line) in the solid area of each color.	Scratches on the Photosensitive Drum Soiling on the Primary Charging Roller
White line		ITB Unit error Secondary Transfer Roller error Soiling on the laser light path

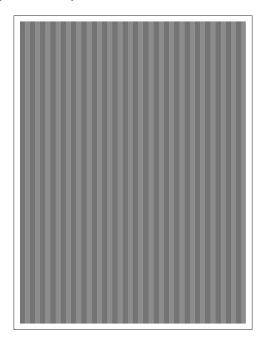
• For checking developing performance (white spots) (TYPE=21)



Check item	Checking method	Assumed cause
Gradation	Check the gradation performance.	Cartridge error
		Soiling on the Color Displacement/Density Sensor
		ITB Unit error
		Reader error

Check item	Checking method	Assumed cause
White spots	White spots near the solid patches in halftone patches just	Cartridge error
	before and after the solid patches	

• For checking resolution (TYPE=22)



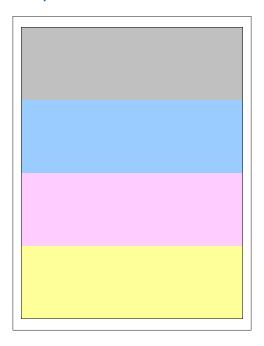
Check item	Checking method	Assumed cause
Line	Check the position and interval.	Laser Scanner Unit error
		Main Controller PCB error

• For checking banding image (TYPE=23)



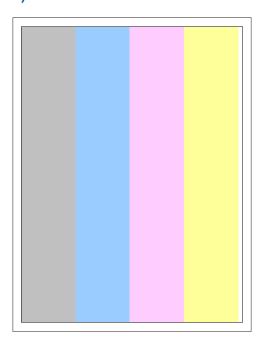
Check item	Checking method	Assumed cause
Line	Check the position and interval.	Cartridge error
		Main Drive Unit error
		ITB Unit error
		Fixing Assembly error
		Error in the feed path
		Paper slip at paper pickup

• 4 colors (landscape) (TYPE=24)



Check item	Checking method	Assumed cause
Line	Check the position of the line, and check whether the line occurs in all colors.	PG:
		Reader error If it occurs only in a single color:
		Cartridge error Laser Scanner Unit error
		ITB Unit error If it occurs in all colors:
		ITB Unit error Secondary Transfer Roller error Fixing Assembly error

• 4 colors (portrait) (TYPE=25)



Check item	Checking method	Assumed cause
Line	Check the position of the line, and check whether the line occurs in all colors.	If it occurs during copying but not with this PG:
		Reader error
		If it occurs only in a single color:
		Cartridge error
		Laser Scanner Unit error
		ITB Unit error
		If it occurs in all colors:
		ITB Unit error
		Secondary Transfer Roller error
		Fixing Assembly error



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.

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Cyan (1) Serial No. 0100728959	(2) Type C1	(3) Cpcty. Large	(4/6) First/Last 08/25/2016 08/25/2016	09:13		(S1/S5) Pg. Count 00001763 00001764	(5/7) Left 0% 0%	(S2/S6) Toner 78% 78%	(S3/S7) Drum 80% 80%	(S4/S8) Parts 78%
Magenta (1) Serial No. 0100729012	(2) Type C1	(3) Cpcty. Starter	(4/0) First/Last 08/25/2016 08/25/2016	09:13		(31/35) Pg. Count 00001220 00001221	(5/7) Left 26% 26%	(32/30) Toner 25% 25%	(33/37) Drum 63% 63%	(34/38) Parts 25% 25%
Yellow (1) Serial No. 0100729167	(2) Type C1	(3) Cpcty. Larse	(4/6) First/Last 08/25/2016 08/25/2016	09:13		(S1/S5) Pg. Count 00001609 00001610	(5/7) Left 0% 0%	(\$2/\$6) Toner 80%	(S3/S7) Drum 83% 83%	(S4/S8) Parts 82% 82%
Black (1) Serial No. 0100729123	(2) Type C1	(3) Cpcty. Large	(4/6) First/Last 08/25/2016 08/25/2016	09:13		(S1/S5) Pg. Count 00000806 00000807	(5/7) Left 82% 82%	(S2/S6) Toner 83% 83%	(S3/S7) Drum 88% 88%	(S4/S8) Parts 83% 83%
C4: 00000 C5: 00000 C6: 00000 C7: 00000 C8: 00000	000 000 000	[3]								

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		

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

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

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 9999999
(5/7) Left	The amount remaining in the cartridge (when it was installed/last used)	0 to 100 % (New cartridge: 100%)
(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.

Troubleshooting Items



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 cannot be cleaned, replace the cartridge.

Roller pitch	Parts
Approx. 44 mm	Registration Roller
Approx. 51 mm	Secondary Transfer Roller
Approx. 19 mm	Primary Charging Roller
Approx. 63 mm	Photosensitive Drum
Approx. 31 mm	Developing Roller
Approx. 57 mm	Fixing Roller
Approx. 57 mm	Pressure Firm



Confirming nip width

Overview

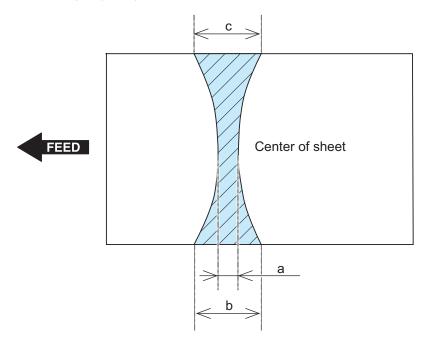
Although the nip width of the Fixing Assembly cannot be adjusted with this machine, it can be checked. By checking the nip width when fixing failure occurs, it is possible to judge whether there is a problem with the Fixing Assembly.

Field Remedy

Check the nip width of the Fixing Assembly by the following procedure.

- 1. Print a solid black image on an A4/LTR size paper using the cartridge of this machine and bring it to the customer site.
- 2. Load the solid black printed paper with its printing side facing down in a cassette of the machine.
- 3. Use an external device to print a solid white image.
- 4. Open the Front Cover after approx. 25 seconds, leave it for 10 seconds or more, and then take out the printed paper.

- 5. Measure the widths of the glossy part of the toner on the printed paper, and check that they are within the range as follows.
 - Center (a): 6.0 to 7.0 mm
 - Edge (b) and (c): 6.0 to 7.0 mm each
 - Difference between left and right (| b c |): 1.0 mm or less



Action When Hue Differs between the Front and Back Sides of the Output Image at Duplex Copy (For the duplex scanning ADF model)

Overview

If hue differs between the front and back sides of the output image when making a copy of 2-sided original, perform color difference correction on both front and back sides.

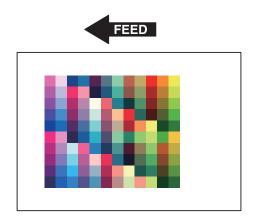
Field Remedy

Follow the procedure shown below to perform color difference correction.

- Execute full adjustment of auto gradation adjustment. (Adjustment of density of the printed output)
 Adjustment/Maintenance > Adjust Image Quality > Auto Adjust Gradation > Full Adjust
- 2. Output PG-TYPE 26 from test mode in service mode.
 - TESTMODE > PRINT > PG-TYPE

3. Read the chart using the duplex scanning model (front side).

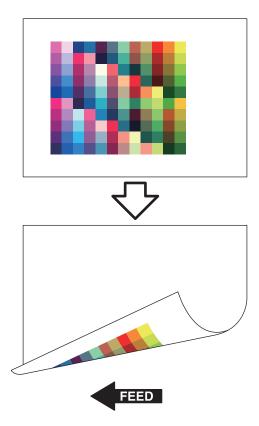
Place the chart PG-TYPE 26 output in test mode on the ADF with the printed side facing up and execute the following service mode.



• COPIER > FUNCTION > MISC-R > 1PSCLB-A

4. Read the chart using the duplex scanning model (back side).

Place the chart PG-TYPE 26 output in test mode on the ADF with the printed side facing down and execute the following service mode.



• COPIER > FUNCTION > MISC-R > 1PSCLB-B

5. Judgment

Check that the following service mode values are 1 (reading succeeded).

- COPIER > DISPLAY > CCD > 1P-ERR-A
- COPIER > DISPLAY > CCD > 1P-ERR-B

If any value other than 1 (reading succeeded) is displayed, turn OFF and then ON the power of the host machine and read the chart again.

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

Overview	224
Error Code	227
Jam Code	234
Alarm Code	237

Overview

This section describes the error codes that are displayed when failure has occurred.

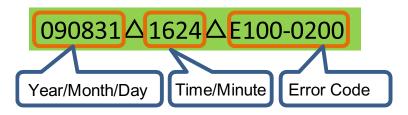
Code type	Description	Reference
Error Code	This code is displayed when a failure caused by the host machine has occurred.	List of Error Codes
Jam code	This code is displayed when a jam has occurred.	List of Jam Codes
Alarm Code	This code is displayed when the machine's function has been partially lost.	List of Alarm Codes



Error/Jam/Alarm Log indication

Error log

Service Mode > COPIER > DISPLAY > ERR

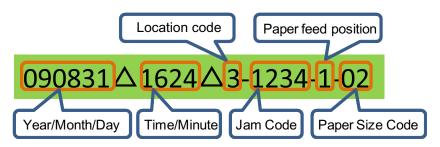


Indication example

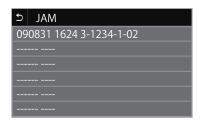


Jam log

Service Mode > COPIER > DISPLAY > JAM

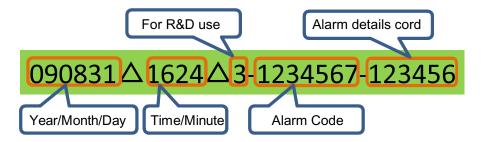


Indication example



Alarm log

Service Mode > COPIER > DISPLAY > ALARM-2, ALARM-3

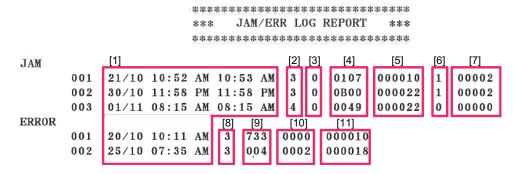


Indication example



JAM/ERR LOG REPORT

Output procedure of the JAM/ERR LOG REPORT Service Mode > COPIER> FUNCTION> MISC-P > ERR-LOG The explanation of mention contents



No.	Item
1	Day/Month Time/Minute
2	Outbreak division
3	Not used
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

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	3
ADF	4



Pickup Position Code

When a jam occurs, the pickup location is indicated with the following pickup position code.

Pickup position	Pickup position code
ADF	0
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 Fixing Assembly		
Detection Description	Temperature of the Fixing Assembly did not reach a certain temperature within the specified period of time.		
 Check the connector connection between the Fixing Assembly and the Engine Replace the Fixing Assembly. Replace the Engine Controller PCB. 			
E001-0000	Abnormal high temperature of Fixing Assembly		
Detection Description	It was detected that the temperature of the Fixing Assembly was abnormally high.		
Remedy	 Check the connector connection between the Fixing Assembly and the Engine Controller PCB. Replace the Fixing Assembly. Replace the Engine Controller PCB. 		
E001-0001	Abnormal high temperature of Fixing Assembly		
Detection Description	It was detected that the temperature of the Fixing Assembly (Sub Thermistor) was abnormally high.		
Remedy	 Check the connector connection between the Fixing Assembly and the Engine Controller PCB. Replace the Fixing Assembly. Replace the Engine Controller PCB. 		
E003-0000	Abnormal low temperature of Fixing Assembly		
Detection Description	It was detected that the temperature of the Fixing Assembly was abnormally low.		
Remedy	 Check the connector connection between the Fixing Assembly and the Engine Controller PCB. Replace the Fixing Assembly. Replace the Engine Controller PCB. 		
E003-0001	It was detected that the temperature of the Fixing Assembly (Sub Thermistor) was abnormally low.		
Detection Description	It was detected that the temperature of the Fixing Assembly (Sub Thermistor) was abnormally low.		
Remedy	 Check the connector connection between the Fixing Assembly and the Engine Controller PCB. Replace the Fixing Assembly. Replace the Engine Controller PCB. 		
E004-0000	Error in fixing power supply drive circuit		
Detection Description	The zero cross signal was not detected for the specified period of time or more.		
Remedy	 Check the connector connection between the Fixing Assembly and the Engine Controller PCB. Replace the Fixing Assembly. Replace the Engine Controller PCB. 		
E012-0000	Black Drum Motor error		
Detection Description	An error in the initial operation of the Drum Motor was detected.		
Remedy	Reconnect the connector of the Main Motor. Replace the Engine Controller PCB.		
E012-0001	Black Drum Motor error		
Detection Description	Rotation error of the Drum Motor was detected.		
Remedy	Reconnect the connector of the Main Motor. Replace the Engine 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 connector connection between the Main Motor and the Engine Controller PCB. Replace the Main Motor.		

3. Replace the Engine 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 connector connection between the Main Motor and the Engine Controller PCB. Replace the Main Motor. Replace the Engine Controller PCB. 	
E015-0000	Error in Developing Disengagement Motor	
Detection Description	The engine detected an error in the Developing Disengagement Motor.	
1. Check the harnesses/connectors connecting the Developing Disengagement Switt Developing Disengagement Solenoid and the Engine Controller PCB. 2. Check that the Developing Disengagement Switch is properly installed. 3. Replace the Developing Disengagement Switch. 4. Replace the Developing Disengagement Solenoid. 5. Replace the Engine Controller PCB.		
E015-0001	Cassette 1 lift-up error	
Detection Description	After lift-up of the Lifting Plate of the cassette of the host machine started, ON status of the Lifter Sensor of the cassette of the host machine was not detected within the specified period of time.	
Remedy	 While the cassette of the host machine is removed, turn ON the power and insert the cassette, then check the operation sound of the motor. When there is operation sound of the motor, check if the Lifting Plate has been lifted up. When the Lifting Plate has been lifted up: 1-1. Check that the Lifter Sensor of the cassette of the host machine is properly installed. 1-2. Check the harness/connector between the Engine Controller PCB and the Lifter Sensor. 1-3. Replace the Lifter Sensor. 1-4. Replace the Engine Controller PCB. When the Lifting Plate has not been lifted up: 2-1. Check the condition of the gear at the host machine side (missing teeth, swing). 2-2. Check the harness/connector between the Engine Controller PCB and the Lifter Solenoid of the cassette of the host machine. 2-3. Replace the Lifter Solenoid. 2-4. Replace the Pickup Motor of the cassette of the host machine. 2-5. Replace the Engine Controller PCB. When there is no operation sound of the motor, check the followings: 3-1. Check the harness/connector between the Engine Controller PCB and the Pickup Motor of the cassette of the host machine. 3-2. Check the condition of the gear at the host machine side (missing teeth, swing). 3-3. Check the Pickup Motor. 3-4. Replace the Driver PCB. 3-5. Replace the Engine Controller PCB. 	

E015-0002---Cassette 2 lift-up error **Detection Description** After lift-up of the Lifting Plate of the 1-Cassette Unit started, ON status of the Lifter Sensor of the 1-Cassette Unit was not detected within the specified period of time. 1. While the cassette of the 1-Cassette Unit is removed, turn ON the power and insert the cassette, Remedy then check the operation sound of the motor. When there is operation sound of the motor, check if the Lifting Plate has been lifted up. When the Lifting Plate has been lifted up: 1-1. Check that the Lifter Sensor of the Cassette Unit is properly installed. 1-2. Check the harness/connector between the Engine Controller PCB and the Lifter Sensor. 1-3. Replace the Lifter Sensor. 1-4. Replace the Cassette Feeder Driver PCB. 1-5. Replace the Engine Controller PCB. When the Lifting Plate has not been lifted up: 2-1. Check the condition of the gear of the Cassette Unit (missing teeth, swing). 2-2. Check the harness/connector between the Engine Controller PCB and the Lifter Solenoid of the Cassette Unit. 2-3. Replace the Lifter Solenoid. 2-4. Replace the Pickup Motor of the Cassette Unit. 2-5. Replace the Cassette Feeder Driver PCB. 2-6. Replace the Engine Controller PCB. When there is no operation sound of the motor, check the followings: 3-1. Check the harness/connector between the Engine Controller PCB and the Pickup Motor of the Cassette Unit. 3-2. Check the condition of the gear at the Cassette Unit side (missing teeth, swing). 3-3. Replace the Pickup Motor. 3-4. Replace the Cassette Feeder Driver PCB. 3-5. Replace the Engine Controller PCB. E020-0000---**Density Sensor error Detection Description** An error in the Density Sensor was detected. 1. Check the remaining toner level. Remedy 2. Replace the Toner Cartridge. 3. Check the harness/connector between the Color Displacement/Density Sensor and the Engine Controller PCB. 4. Replace the Color Displacement/Density Sensor. 5. Replace the ITB. 6. Replace the Engine Controller PCB. E021-1000---Yellow Developing Motor rotation error It was judged that the Developing Motor did not rotate. **Detection Description** Remedy 1. Check the harness/connector between the Developing Motor and the Engine Controller PCB. Replace the Developing Motor. 3. Replace the Driver PCB. 4. Replace the Engine Controller PCB. E021-1001---Magenta Developing Motor rotation error **Detection Description** It was judged that the Developing Motor did not rotate. Remedy 1. Check the harness/connector between the Developing Motor and the Engine Controller PCB. Replace the Developing Motor. 3. Replace the Driver PCB. 4. Replace the Engine Controller PCB. E021-1002---**Cyan Developing Motor rotation error Detection Description** It was judged that the Developing Motor did not rotate. Remedy 1. Check the harness/connector between the Developing Motor and the Engine Controller PCB. 2. Replace the Developing Motor. Replace the Driver PCB. 4. Replace the Engine Controller PCB.

E021-1003	Black Developing Motor rotation error	
Detection Description	It was judged that the Developing Motor did not rotate.	
Remedy	 Check the harness/connector between the Developing Motor and the Engine Controller PCB. Replace the Developing Motor. Replace the Driver PCB. 	
	4. Replace the Engine Controller PCB.	
E021-2000	Error in startup of the Yellow Developing Motor	
Detection Description	Revolution of the Developing Motor did not reach the specified value.	
Remedy	 Check the harness/connector between the Developing Motor and the Engine Controller PCB. Replace the Developing Motor. Replace the Driver PCB. Replace the Engine Controller PCB. 	
E021-2001	Error in startup of the Magenta Developing Motor	
Detection Description	Revolution of the Developing Motor did not reach the specified value.	
Remedy	 Check the harness/connector between the Developing Motor and the Engine Controller PCB. Replace the Developing Motor. Replace the Driver PCB. Replace the Engine Controller PCB. 	
E021-2002	Error in startup of the Cyan Developing Motor	
Detection Description	Revolution of the Developing Motor did not reach the specified value.	
Remedy	 Check the harness/connector between the Developing Motor and the Engine Controller PCB. Replace the Developing Motor. Replace the Driver PCB. Replace the Engine Controller PCB. 	
E021-2003	Error in startup of the Black Developing Motor	
Detection Description Revolution of the Developing Motor did not reach the specified value.		
Remedy	 Check the harness/connector between the Developing Motor and the Engine Controller PCB. Replace the Developing Motor. Replace the Driver PCB. Replace the Engine Controller PCB. 	
E052-0000	Duplex Feed Unit absent error	
Detection Description	Connection of the Duplex Feed Unit was not correct.	
Remedy	Reinstall the Duplex Feed Unit.	
E066-0000	Environment Sensor error	
Detection Description	An error in the Environment Sensor was detected.	
Remedy	 Check the harness/connection of the Environment Sensor and the Engine Controller PCB. Replace the Environment Sensor. Replace the Engine Controller PCB. 	
E078-0000	Primary transfer disengagement mechanism error	
Detection Description	Primary transfer disengagement mechanism did not work properly.	
Remedy	 Check the harnesses/connectors connecting the Primary Transfer Disengagement Switch, the Primary Transfer Disengagement Solenoid and the Engine Controller PCB. Replace the Primary Transfer Disengagement Switch. Replace the Primary Transfer Disengagement Solenoid. Replace the Engine Controller PCB. 	
E100-0000	Yellow scanner area failure	
Detection Description	Error in the Scanner Motor, Laser Unit, or BD detection in the yellow scanner area	
Remedy	 Check the harness/FFC/connector between the Laser Unit and the Engine Controller PCB. Replace the FFC. Replace the Laser Unit. Replace the Engine Controller PCB. 	

E100-0001	Magenta scanner area failure		
Detection Description	Error in the Scanner Motor, Laser Unit, or BD detection in the magenta scanner area		
Remedy	 Check the harness/FFC/connector between the Laser Unit and the Engine Controller PCB. Replace the FFC. Replace the Laser Unit. Replace the Engine Controller PCB. 		
E100-0002	Cyan scanner area failure		
Detection Description	Error in the Scanner Motor, Laser Unit, or BD detection in the cyan scanner area		
Remedy	 Check the harness/FFC/connector between the Laser Unit and the Engine Controller PCB. Replace the FFC. Replace the Laser Unit. Replace the Engine Controller PCB. 		
E100-0003	Black scanner area failure		
Detection Description	Error in the Scanner Motor, Laser Unit, or BD detection in the black scanner area		
Remedy	 Check the harness/FFC/connector between the Laser Unit and the Engine Controller PCB. Replace the FFC. Replace the Laser Unit. Replace the Engine Controller PCB. 		
E110-0000	Primary pseudo BD correction error		
Detection Description	The scanner failed to be Ready within 3 seconds after start of pseudo BD control.		
Remedy	 Check that the engine test print is properly printed. Check the FFC between the Main Controller PCB and the Engine Controller PCB. Replace the Main Controller PCB. 		
E194-0000	CPR Sensor error		
	- R		
Detection Description	An error in the CPR Sensor was detected.		
Detection Description	An error in the CPR Sensor was detected. 1. Replace the Toner Cartridge. 2. Check the harness/connector between the Color Displacement/Density Sensor and the Engine Controller PCB. 3. Replace the Color Displacement/Density Sensor Unit. 4. Replace the Engine Controller PCB.		
Detection Description Remedy	An error in the CPR Sensor was detected. 1. Replace the Toner Cartridge. 2. Check the harness/connector between the Color Displacement/Density Sensor and the Engine Controller PCB. 3. Replace the Color Displacement/Density Sensor Unit. 4. Replace the Engine Controller PCB. 5. Replace the ITB Unit.		
Detection Description Remedy	An error in the CPR Sensor was detected. 1. Replace the Toner Cartridge. 2. Check the harness/connector between the Color Displacement/Density Sensor and the Engine Controller PCB. 3. Replace the Color Displacement/Density Sensor Unit. 4. Replace the Engine Controller PCB. 5. Replace the ITB Unit. Engine Controller error		
Detection Description Remedy E196-0000 Detection Description	An error in the CPR Sensor was detected. 1. Replace the Toner Cartridge. 2. Check the harness/connector between the Color Displacement/Density Sensor and the Engine Controller PCB. 3. Replace the Color Displacement/Density Sensor Unit. 4. Replace the Engine Controller PCB. 5. Replace the ITB Unit. Engine Controller error Update of the Engine Controller was failed. (RFU mode right after the startup)		
Detection Description Remedy E196-0000 Detection Description Remedy	An error in the CPR Sensor was detected. 1. Replace the Toner Cartridge. 2. Check the harness/connector between the Color Displacement/Density Sensor and the Engine Controller PCB. 3. Replace the Color Displacement/Density Sensor Unit. 4. Replace the Engine Controller PCB. 5. Replace the ITB Unit. Engine Controller error Update of the Engine Controller was failed. (RFU mode right after the startup) 1. Replace the Engine Controller PCB.		
Detection Description Remedy E196-0000 Detection Description Remedy E198-0000	An error in the CPR Sensor was detected. 1. Replace the Toner Cartridge. 2. Check the harness/connector between the Color Displacement/Density Sensor and the Engine Controller PCB. 3. Replace the Color Displacement/Density Sensor Unit. 4. Replace the Engine Controller PCB. 5. Replace the ITB Unit. Engine Controller error Update of the Engine Controller was failed. (RFU mode right after the startup) 1. Replace the Engine Controller PCB. Engine Controller memory failure		
Detection Description Remedy E196-0000 Detection Description Remedy E198-0000 Detection Description	An error in the CPR Sensor was detected. 1. Replace the Toner Cartridge. 2. Check the harness/connector between the Color Displacement/Density Sensor and the Engine Controller PCB. 3. Replace the Color Displacement/Density Sensor Unit. 4. Replace the Engine Controller PCB. 5. Replace the ITB Unit. Engine Controller error Update of the Engine Controller was failed. (RFU mode right after the startup) 1. Replace the Engine Controller PCB. Engine Controller memory failure Error in the nonvolatile memory on the Engine Controller PCB 1. Turn OFF and then ON the power and check if the symptom occurs again.		
Detection Description Remedy E196-0000 Detection Description Remedy E198-0000 Detection Description Remedy	An error in the CPR Sensor was detected. 1. Replace the Toner Cartridge. 2. Check the harness/connector between the Color Displacement/Density Sensor and the Engine Controller PCB. 3. Replace the Color Displacement/Density Sensor Unit. 4. Replace the Engine Controller PCB. 5. Replace the ITB Unit. Engine Controller error Update of the Engine Controller was failed. (RFU mode right after the startup) 1. Replace the Engine Controller PCB. Engine Controller memory failure Error in the nonvolatile memory on the Engine Controller PCB 1. Turn OFF and then ON the power and check if the symptom occurs again. 2. Replace the Engine Controller PCB.		

E202-0002	CIS Unit HP error (homeward)	
Detection Description The CIS Unit did not move to HP even it moved forward. Reader HP Sensor error, Reader Motor error, CIS Unit error		
Remedy	 Replace the Reader 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	Shading error	
Detection Description	When the light intensity is below the reference level at shading	
Remedy	 Disconnect and then connect the Flexible Cable. Replace the Flexible Cable. Replace the CIS Unit. Replace the Main Controller PCB (PCB2). 	
E302-0002	Shading error	
Detection Description	Image sampling for shading was not completed.	
Remedy 1. Turn OFF and then ON the main power. 2. Check the connection of the harness. 3. Replace the Main Controller PCB. 4. Replace the Reader Unit.		
E350-0000	System error	
Detection Description System error		
Remedy	Contact the sales company.	
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.		
E732-0000	Scanner communication error	
Detection Description	Scanner communication error	
Remedy	Install the set of the controller firmware. Replace the Main Controller PCB.	

E733-0000	Printer communication error	
Detection Description	Communication error between the Engine Controller PCB and the Main Controller PCB occurred.	
Remedy	1. Check the connector connection between the Engine Controller PCB and the Main Controller PCB.	
	2. Install the set of the controller firmware.	
	3. Replace the Main Controller PCB.	
	Replace the Engine Controller PCB.	
E743-0000	DDI communication error	
Detection Description	Software sequence error	
Remedy	1. Turn OFF and then ON the main power.	
E805-0005	Sub Fan error	
Detection Description	The Sub Fan was locked for a specified consecutive period of time.	
Remedy	1. Check the connection of the Sub Fan.	
	2. Replace the Sub Fan.	
E806-0000	Main Fan error	
Detection Description	The Main Fan was locked for a specified consecutive period of time.	
Remedy	1. Check the connection of the Main Fan.	
	2. Replace the Main Fan.	
E808-0000	Low-voltage power supply failure detection	
Detection Description	Printer detected low-voltage power supply failure.	
Remedy	Replace the Engine Controller PCB	
E840-0000	Pressure release mechanism error	
Detection Description	An error in pressure release mechanism of the Fixing Assembly was detected.	
Remedy	Replace the Fixing Assembly.	
	2. Replace the Fixing Motor.	

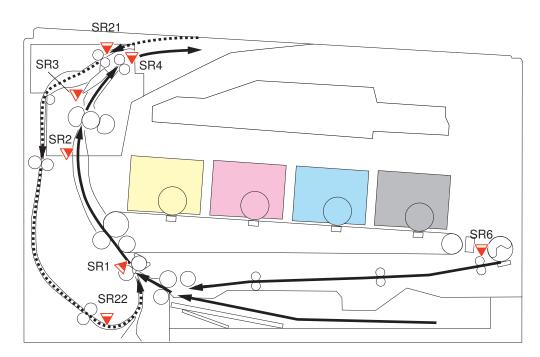
Jam Code

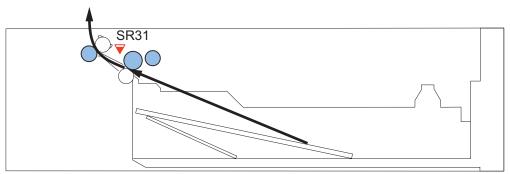
Jam Code Details

■ Host machine

Simplex paper path

Duplex paper path

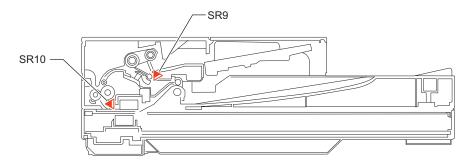




Jam	Туре	Sensor Name	Sensor ID	Area
Code				
0104	Pickup Delay Jam 1	Registration sensor/Multi-purpose Tray Paper Sensor/Cassette Feed Sensor	SR1/SR6/SR31	Cassette1/Multi-purpose Tray/Cassette2
0105	Pickup Delay Jam 2	Cassette Feed Sensor	SR31	Cassette2
014C	Fixing Delivery Delay Jam1	Registration sensor/Fixing Delivery Sensor/Delivery Sensor	SR1/SR3/SR4	Cartridge to Fixing Roller Area
016C	Delivery Delay Jam1	Registration sensor/Fixing Delivery Sensor/Delivery Sensor	SR1/SR3/SR4	Fixing Roller to Delivery Area
0248	Pickup Stationary Jam 1	Registration sensor/Fixing Delivery Sensor/Delivery Sensor	SR1/SR3/SR4	Registration Area to Cartridge Cartridge to Fixing Roller Area
0250	Fixing Delivery Stationary Jam 1	Registration sensor/Fixing Delivery Sensor/Delivery Sensor	SR1/SR3/SR4	Fixing Roller to Delivery Area

Jam Code	Туре	Sensor Name	Sensor ID	Area
025C	Wrap Jam1	Registration sensor/Fixing Delivery Sensor/Delivery Sensor	ery Sensor	
025D	Wrap Jam2	ery Sensor/Duplex Re-pickup Sensor		Cartridge to Fixing Roller Area Fixing Roller to Delivery Area
0260	Reverse Area Jam1	Registration sensor/Fixing Delivery Sensor/Delivery Sensor/Duplex Re-pickup Sensor	SR1/SR3/SR4/SR22	Fixing Roller to Delivery Area
0270	Delivery Stationary Jam 1	Registration sensor/Fixing Delivery Sensor/Delivery Sensor	SR1/SR3/SR4	Fixing Roller to Delivery Area
029D	Wrap Jam2	Registration sensor/Fixing Delivery Sensor/Delivery Sensor/Duplex Re-pickup Sensor	SR1/SR3/SR4/SR22	Duplex Re-pickup Assembly
02A0	Reverse Area Jam1	Registration sensor/Fixing Delivery Sensor/Delivery Sensor/Duplex Re-pickup Sensor	SR1/SR3/SR4/SR22	Duplex Re-pickup Assembly
02A4	Duplex Re-pickup As- sembly Jam1	Duplex Re-pickup Sensor	SR22	Duplex Re-pickup Assembly
02A5	Duplex Re-pickup Assembly Jam2	Duplex Re-pickup Sensor	SR22	Duplex Re-pickup Assembly
02CD	Wrap Jam2	Registration sensor/Fixing Delivery Sensor/Delivery Sensor/Duplex Re-pickup Sensor	SR1/SR3/SR4/SR22	Registration Area to Delivery Area Duplex Re-pickup Assembly
02E0	Reverse Area Jam1 Registration sensor/Fixing Delivery Sensor/Delivery Sensor/Duplex Re-pickup Sensor		SR1/SR3/SR4/SR22	Registration Area to Delivery Area Duplex Re-pickup Assembly
1014	Power ON Jam 1	Cassette Feed Sensor	SR31	Cassette2
1054	Power ON Jam 1	am 1 Registration sensor/Fixing Delivery Sensor/Delivery Sensor/Duplex Re-pickup Sensor		Registration Area to Delivery Area
1094	94 Power ON Jam 1 Registration sensor/Fixing Delivery Sensor/Delivery Sensor/Duplex Re-pickup Sensor		SR1/SR3/SR4/SR22	Duplex Re-pickup Assembly
10D4	Power ON Jam 1	Registration sensor/Fixing Delivery Sensor/Delivery Sensor/Duplex Re-pickup Sensor	SR1/SR3/SR4/SR22	Registration Area to Delivery Area Duplex Re-pickup Assembly
1017	Power ON Jam 4	Cassette Feed Sensor	SR31	Cassette2
1057	Power ON Jam 4	Registration sensor/Fixing Delivery Sensor/Delivery Sensor/Duplex Re-pickup Sensor	SR1/SR3/SR4/SR22	Registration Area to Delivery Area
1097	1097 Power ON Jam 4 Registration sensor/Fixing Delivery Sensor/Deliv- SR1/SR3/SR4/SR22 Du		Duplex Re-pickup Assembly	
10D7	Power ON Jam 4	Registration sensor/Fixing Delivery Sensor/Delivery Sensor/Duplex Re-pickup Sensor	SR1/SR3/SR4/SR22	Registration Area to Delivery Area Duplex Re-pickup Assembly
1118	Door Open Jam1	Registration sensor/Multi-purpose Tray Paper SR1/SR6/SR31 Sensor/Cassette Feed Sensor		Cassette1/Multi-purpose Tray/Cassette2
1158	Door Open Jam1	Registration sensor/Fixing Delivery Sensor/Delivery Sensor/Duplex Re-pickup Sensor	SR1/SR3/SR4/SR22	Registration Area to Delivery Area
1198	Door Open Jam1	Registration sensor/Fixing Delivery Sensor/Delivery Sensor/Duplex Re-pickup Sensor	SR1/SR3/SR4/SR22	Duplex Re-pickup Assembly
11D8	Door Open Jam1	Registration sensor/Fixing Delivery Sensor/Delivery Sensor/Duplex Re-pickup Sensor	SR1/SR3/SR4/SR22	Registration Area to Delivery Area Duplex Re-pickup Assembly

■ ADF



Jam Code	Туре	Sensor Name	Sensor ID	Area
0001	Delay Jam	Document End Sensor	SR10	ADF Pickup Feed Area
0002	Stationary Jam	Document End Sensor	SR10	ADF Pickup Feed Area
0021	Other	Document End Sensor	SR10	ADF Pickup Feed Area
0094	Power-on jam	Document End Sensor	SR10	ADF Pickup Feed Area
0071	Sequence jam (Timing error)	-	-	-
0096	Other	-	-	-

Alarm Code



Alarm Code Details

10-0401	Toner Bottle empty alarm (Y)	
A. Operation / B. Cause / C. Remedy	When the Toner Bottle empty was detected	
10-0402	Toner Bottle empty alarm (M)	
A. Operation / B. Cause / C. Remedy	When the Toner Bottle empty was detected	
10-0403	Toner Bottle empty alarm (C)	
A. Operation / B. Cause / C. Remedy	When the Toner Bottle empty was detected	
10-0404	Toner Bottle empty alarm (BK)	
A. Operation / B. Cause /	When the Toner Bottle empty was detected	



Service Mode

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FEEDER (ADF service mode)	.318
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TESTMODE (Service mode for test	
print, operation check, etc.)	326

Overview



Entering Service Mode

For information on how to enter service mode, contact the Support Dept. of the sales company.



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.



Remote UI Service Mode

■ 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 copier)



DISPLAY (State display mode)

■ VERSION

COPIER (Service mode for copier) > 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	ate 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	ethod 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 Engine Controller version				
Detail	To display the version of Engine Controller PCB.				
Use Case	When upgrading the firmware				
Adj/Set/Operate Method	N/A (Display only)				
Display/Adj/Set Range	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	Set/Operate Method N/A (Display only)				
Display/Adj/Set Range	00.00 to 99.99				
Related Service Mode	COPIER> FUNCTION> SYSTEM> PANEL-UP				

■ CCD

COPIER (Service mode for copier) > DISPLAY (State display mode) > CCD

,	Display of the 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)			
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.			
Use Case	At scanned image failure			
Adj/Set/Operate Method	N/A (Display only)			
Display/Adj/Set Range	0 to 2048			
Default Value	1135			
Related Service Mode	COPIER> ADJUST> CCD> DFTAR-R			
TARGETBW	Display of shading target value (B&W)			
Detail	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	At scanned image failure			
Adj/Set/Operate Method	N/A (Display only)			
Display/Adj/Set Range	0 to 2048			
Default Value	1072			
Related Service Mode	COPIER> ADJUST> CCD> DFTAR-BW			
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: NG			
Related Service Mode	1: OK			
Related Service Mode	COPIER> FUNCTION> CCD> BK-SHD1/2			

COPIER (Service mode for copier) > DISPLAY (State display mode) > CCD

•				
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	To display the result of reading of PG for calibrating color difference between the front and back 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 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-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	-	-	-
	4	-	-	-
	3	-	-	-
	2	CIS HP Sensor	SR11	H: HP
	1	Document Sensor	SR9	H: Paper
	0	Document End Sensor	SR10	H: Paper



■ ADJ-XY

ADLY	
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.
U O	
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	-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 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	-15 to 15
Unit	0.1 mm
Default Value	0
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.
Use Case	- When replacing the DADF - 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

copier) > ADJUST (Adjustment mode) > ADJ-XY
Adj start pstn: stream, horz scan, back
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.
- When replacing the DADF - 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.
-15 to 15
0.1 mm
0
Fine adj img ratio: book mode, vert scan
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
- When replacing the DADF - 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.
-200 to 200
0.01%
0
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 replacing the DADF 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

ADJ-S	Adjustment of Reader shading position
Detail	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.
Use Case	- When black lines/white lines appear
	- When replacing the Scanner Unit
	- When clearing the Reader-related 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	-20 to 20
Unit	0.1 mm
Default Value	0
Related Service Mode	COPIER> FUNCTION> INSTALL> RDSHDPOS
Supplement/Memo	The shading position can be adjusted automatically by RDSHDPOS.

■ CCD

W-PLT-X	Stdrd White Plt white IvI data (X) entry
Detail	To enter the white level data (X) for the Standard White Plate. When replacing the DADF/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 DADF/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-PLT-Y/Z
W-PLT-Y	Stdrd White Plt white Ivl data (Y) entry
W-PLT-Y Detail	Stdrd White Plt white IvI data (Y) entry To enter the white level data (Y) for the Standard White Plate. When replacing the DADF/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.
	To enter the white level data (Y) for the Standard White Plate. When replacing the DADF/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
Detail	To enter the white level data (Y) for the Standard White Plate. When replacing the DADF/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. - When replacing the DADF/Reader Unit - When replacing the Reader Upper Cover Unit
Detail Use Case	To enter the white level data (Y) for the Standard White Plate. When replacing the DADF/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. - When replacing the DADF/Reader Unit - When replacing the Reader Upper Cover Unit - When replacing the Main Controller PCB
Detail Use Case Adj/Set/Operate Method	To enter the white level data (Y) for the Standard White Plate. When replacing the DADF/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. - When replacing the DADF/Reader Unit - When replacing the Reader Upper Cover Unit - When replacing the Main Controller PCB Enter the setting value, and then press Apply key.
Detail Use Case Adj/Set/Operate Method Caution	To enter the white level data (Y) for the Standard White Plate. When replacing the DADF/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. - When replacing the DADF/Reader Unit - When replacing the Reader Upper Cover Unit - When replacing the Main Controller PCB Enter the setting value, and then press Apply key. After the setting value is changed, write the changed value in the service label.

COPIER (Service mode for d	copier) > ADJUST (Adjustment mode) > CCD
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 DADF/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 DADF/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 DADF/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 DADF/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
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 DADF/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 DADF/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

Detail To enter the shading target value of Blue of the Scanner Unit (for front side) at streat When replacing the Main Controller PCB/clearing RAM data, enter the value of serv When replacing the DADF/Reader Unit, Scanner Unit, or Reader Upper Cover Unit, WLVL1 and DF-WLVL2 and write the value which is automatically set in the service The setting is applied to only the image on the front side. - When replacing the Main Controller PCB/clearing RAM data - When replacing the DADF/Reader Unit - When replacing the Scanner Unit - When replacing the Reader Upper Cover Unit Adj/Set/Operate Method Display/Adj/Set Range Default Value To enter the shading target value of Blue of the Scanner Unit, (for front side) at streat When explacing the Value of Serv When replacing the value which is automatically set in the service The setting is applied to only the image on the front side. - When replacing the Main Controller PCB/clearing RAM data - When replacing the DADF/Reader Unit - When replacing the Reader Unit - When replacing the Reader Upper Cover Unit - Enter the setting value, and then press Apply key. 0 to 2048 1151	ice label. execute DF
When replacing the Main Controller PCB/clearing RAM data, enter the value of serv When replacing the DADF/Reader Unit, Scanner Unit, or Reader Upper Cover Unit, WLVL1 and DF-WLVL2 and write the value which is automatically set in the service 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 DADF/Reader Unit - When replacing the Scanner Unit - When replacing the Reader Upper Cover Unit Adj/Set/Operate Method Display/Adj/Set Range O to 2048	ice label. execute DF
- When replacing the DADF/Reader Unit - When replacing the Scanner Unit - When replacing the Reader Upper Cover Unit Adj/Set/Operate Method Display/Adj/Set Range 0 to 2048	
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 When replacing the Main Controller PCB/clearing RAM data, enter the value of serv When replacing the DADF/Reader Unit, Scanner Unit, or Reader Upper Cover Unit, WLVL1 and DF-WLVL2 and write the value which is automatically set in the service The setting is applied to only the image on the front side.	rice label. execute DF
Use Case - When replacing the Main Controller PCB/clearing RAM data - When replacing the DADF/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	
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 strea When replacing the Main Controller PCB/clearing RAM data, enter the value of serv When replacing the DADF/Reader Unit, Scanner Unit, or Reader Upper Cover Unit, WLVL1 and DF-WLVL2 and write the value which is automatically set in the service The setting is applied to only the image on the back side.	ice label. execute DF
- When replacing the Main Controller PCB/clearing RAM data - When replacing the DADF/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 DADF/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 DADF/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 DADF/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 DADF/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
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 DADF/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 DADF/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 c	-p/
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.
Adj/Set/Operate Method Caution	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.
•	
Caution	After the setting value is changed, write the changed value in the service label.
Caution Display/Adj/Set Range	After the setting value is changed, write the changed value in the service label512 to 512
Caution Display/Adj/Set Range Unit	After the setting value is changed, write the changed value in the service label. -512 to 512 0.001 line
Caution Display/Adj/Set Range Unit Default Value	After the setting value is changed, write the changed value in the service label. -512 to 512 0.001 line -333
Caution Display/Adj/Set Range Unit Default Value Supplement/Memo	After the setting value is changed, write the changed value in the service label. -512 to 512 0.001 line -333 100 reading: 600 dpi in horizontal scanning direction x 600 dpi in vertical scanning direction GB clr displace correct: 100% book mode 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.
Caution Display/Adj/Set Range Unit Default Value Supplement/Memo	After the setting value is changed, write the changed value in the service label. -512 to 512 0.001 line -333 100 reading: 600 dpi in horizontal scanning direction x 600 dpi in vertical scanning direction GB clr displace correct: 100% book mode To correct the color displacement between G and B lines in vertical scanning direction that occurs at 100% copyboard reading.
Caution Display/Adj/Set Range Unit Default Value Supplement/Memo 100-GB Detail Use Case Adj/Set/Operate Method	After the setting value is changed, write the changed value in the service label. -512 to 512 0.001 line -333 100 reading: 600 dpi in horizontal scanning direction x 600 dpi in vertical scanning direction GB clr displace correct: 100% book mode 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. When replacing the Main Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key), and then press Apply key.
Caution Display/Adj/Set Range Unit Default Value Supplement/Memo 100-GB Detail	After the setting value is changed, write the changed value in the service label. -512 to 512 0.001 line -333 100 reading: 600 dpi in horizontal scanning direction x 600 dpi in vertical scanning direction GB clr displace correct: 100% book mode 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. When replacing the Main Controller PCB/clearing RAM data
Caution Display/Adj/Set Range Unit Default Value Supplement/Memo 100-GB Detail Use Case Adj/Set/Operate Method	After the setting value is changed, write the changed value in the service label. -512 to 512 0.001 line -333 100 reading: 600 dpi in horizontal scanning direction x 600 dpi in vertical scanning direction GB clr displace correct: 100% book mode 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. 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
Caution Display/Adj/Set Range Unit Default Value Supplement/Memo 100-GB Detail Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range Unit	After the setting value is changed, write the changed value in the service label. -512 to 512 0.001 line -333 100 reading: 600 dpi in horizontal scanning direction x 600 dpi in vertical scanning direction GB clr displace correct: 100% book mode 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. 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 0.001 line
Caution Display/Adj/Set Range Unit Default Value Supplement/Memo 100-GB Detail Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range	After the setting value is changed, write the changed value in the service label. -512 to 512 0.001 line -333 100 reading: 600 dpi in horizontal scanning direction x 600 dpi in vertical scanning direction GB clr displace correct: 100% book mode 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. 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 Illoue for C	opier) > ADJOST (Adjustinent mode) > CCD
50DF-RG	RG clr displace crrct: 50% DADF, front
Detail	To correct the color displacement between R and G lines in vertical scanning direction that occurs at 50% DADF 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% DADF, front
Detail	To correct the color displacement between G and B lines in vertical scanning direction that occurs at 50% DADF 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% DADF, front
Detail	To correct the color displacement between R and G lines in vertical scanning direction that occurs
	at 100% DADF mode.
	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Han Cana	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
100DF-GB	GB clr displace crrct: 100% DADF, front
Detail	To correct the color displacement between G and B lines in vertical scanning direction that occurs at 100% DADF 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
ouppiememmemo	100 reading. 000 dpi in nonzoniai scanning direction x 000 dpi in vertical scanning direction

•	opier) > ADJUST (Adjustment mode) > CCD
50DF2RG	RG clr displace crrct: 50% DADF, back
Detail	To correct the color displacement between R and G lines in vertical scanning direction that occur at 50% DADF mode.
	When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Usa Casa	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% DADF, back
Detail	To correct the color displacement between G and B lines in vertical scanning direction that occur at 50% DADF 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	RG clr displace crrct: 100% DADF, back
Detail	To correct the color displacement between R and G lines in vertical scanning direction that occur at 100% DADF mode. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Han Cana	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 Supplement/Memo	-333
oupplement/weino	100 reading: 600 doi in horizontal scanning direction v 600 doi in vertical scanning direction
	100 reading: 600 dpi in horizontal scanning direction x 600 dpi in vertical scanning direction
100DF2GB	GB clr displace crrct: 100% DADF, back
100DF2GB Detail	
	GB clr displace crrct: 100% DADF, back To correct the color displacement between G and B lines in vertical scanning direction that occur at 100% DADF mode. When replacing the Main Controller PCB/clearing RAM data, enter the value of service label.
Detail	GB clr displace crrct: 100% DADF, back To correct the color displacement between G and B lines in vertical scanning direction that occur at 100% DADF 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.
Detail Use Case	GB clr displace crrct: 100% DADF, back To correct the color displacement between G and B lines in vertical scanning direction that occur at 100% DADF 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
Detail Use Case Adj/Set/Operate Method	GB clr displace crrct: 100% DADF, back To correct the color displacement between G and B lines in vertical scanning direction that occur at 100% DADF 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.
Use Case Adj/Set/Operate Method Caution	GB clr displace crrct: 100% DADF, back To correct the color displacement between G and B lines in vertical scanning direction that occur at 100% DADF 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.
Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range	GB clr displace crrct: 100% DADF, back To correct the color displacement between G and B lines in vertical scanning direction that occur at 100% DADF 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 c	opier, resource (regulation mode)
MTF2-M1	MTF value 1 entry:DADF, front, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the front side at DADF 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-M2	MTF value 2 entry:DADF, front, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at DADF 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-M3	MTF value 3 entry:DADF, front, horz scan
MTF2-M3 Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the front side at DADF stream reading.
	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at DADF 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 or the front side at DADF 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 or the front side at DADF 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 or the front side at DADF 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 or the front side at DADF 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	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the front side at DADF 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 4 entry:DADF, front, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at DADF 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 Adj/Set/Operate Method Display/Adj/Set Range Default Value	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the front side at DADF 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 4 entry:DADF, front, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the front side at DADF 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-M4 Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the front side at DADF 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 4 entry:DADF, front, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the front side at DADF 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-M4 Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at DADF 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 4 entry:DADF, front, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at DADF 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)

MTF2-M5	MTF value 5 entry:DADF, front, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the front side at DADF 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
/ITF2-M6	MTF value 6 entry:DADF, front, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the front side at DADF 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:DADF, front, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the front side at DADF 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	
Adj/Set/Operate Method Display/Adj/Set Range	- When replacing the Scanner Unit (for front side)
•	- When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key.
Default Value	- 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	- When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 8 entry:DADF, front, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the front side at DADF stream reading.
Display/Adj/Set Range Default Value	- When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 8 entry:DADF, front, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction on the front side at DADF stream 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 MTF2-M8 Detail	- When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 8 entry:DADF, front, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the front side at DADF 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
Display/Adj/Set Range Default Value MTF2-M8 Detail Use Case	- When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 8 entry:DADF, front, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the front side at DADF 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)

MTF2-M9	MTF value 9 entry:DADF, front, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the front side at DADF 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:DADF, front, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at DADF 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-S2	MTF value 2 entry:DADF, front, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at DADF 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	
Use Case Adj/Set/Operate Method	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 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	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	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	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:DADF, front, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at DADF stream reading.
Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF2-S3	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:DADF, front, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at DADF stream 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 MTF2-S3	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: DADF, front, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at DADF 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
Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF2-S3 Detail	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:DADF, front, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at DADF 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)
Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF2-S3 Detail Use Case Adj/Set/Operate Method	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:DADF, front, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at DADF 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.

COPIER (Service mode for c	· · · · · · · · · · · · · · · · · · ·
MTF2-S4	MTF value 4 entry:DADF, front, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at DADF 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-S5	MTF value 5 entry:DADF, front, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at DADF 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-S6	MTF value 6 entry:DADF, front, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at DADF 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, enter the value of the service label on the reader.
Use Case Adj/Set/Operate Method	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 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)
Adj/Set/Operate Method	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.
Adj/Set/Operate Method Display/Adj/Set Range	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
Adj/Set/Operate Method Display/Adj/Set Range Default Value	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
Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF2-S7	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 7 entry:DADF, front, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at DADF stream 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 MTF2-S7	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 7 entry:DADF, front, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at DADF 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
Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF2-S7 Detail	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 7 entry:DADF, front, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at DADF 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 Scanner Unit (for front side)

COPIER (Service mode for c	opici) - Aboot (Adjustificit filodo) - COB
MTF2-S8	MTF value 8 entry:DADF, front, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at DADF 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:DADF, front, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the front side at DADF 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
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
Default Value	100
MTF-M2	MTF value 2 entry: Copyboard, horz scan
MTF-M2 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.
	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.
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. - 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 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 c	copier) > ADJUST (Adjustment mode) > CCD
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.
Display/Adj/Set Range	0 to 100
Default Value	100
MTF-M4	MTF value 4 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
Default Value MTF-M5	100 MTF value 5 entry: Copyboard, horz scan
	MTF value 5 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading.
MTF-M5	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.
MTF-M5 Detail	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
MTF-M5 Detail Use Case	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)
MTF-M5 Detail Use Case Adj/Set/Operate Method	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) Enter the setting value, and then press Apply key.
MTF-M5 Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range	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) Enter the setting value, and then press Apply key. 0 to 100
MTF-M5 Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value	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) Enter the setting value, and then press Apply key. 0 to 100 MTF value 6 entry: Copyboard, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction at copyboard reading.
MTF-M5 Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF-M6	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) Enter the setting value, and then press Apply key. 0 to 100 MTF value 6 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-M5 Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF-M6 Detail	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) Enter the setting value, and then press Apply key. 0 to 100 MTF value 6 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
Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF-M6 Detail	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) Enter the setting value, and then press Apply key. 0 to 100 MTF value 6 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 c	opier) > ADJUST (Adjustment mode) > CCD
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 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-M8	MTF value 8 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-M9	MTF value 9 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-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)
	Enter the setting value, and then press Apply key.
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Adj/Set/Operate Method Display/Adj/Set Range	0 to 100
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COPIER (Service mode for c	, , , , , , , , , , , , , , , , , , , ,
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
MTF-S3	MTF value 3 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-S4	MTF value 4 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.
	which replacing the Scanner Onit (for front side), enter the value of service laber 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)
Use Case Adj/Set/Operate Method	- When replacing the Main Controller PCB/clearing the Reader-related RAM data
	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	- 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	- 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	- 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	- 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, 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-S5	- 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, 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-S5 Detail	- 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, 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 comments of the comme	
	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 data
Adi/Sat/Operate Method	- When replacing the Scanner Unit (for front side)
Adj/Set/Operate Method	Enter the setting value, and then press Apply key. 0 to 100
Display/Adj/Set Range	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	- 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-S8	MTF value 8 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	- When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key.
Display/Adj/Set Range	- When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key. 0 to 100
•	- When replacing the Scanner Unit (for front side) Enter the setting value, and then press Apply key.
Display/Adj/Set Range	- 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	- 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, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at
Display/Adj/Set Range Default Value MTF-S9	- 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, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at copyboard reading.
Display/Adj/Set Range Default Value MTF-S9	- 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, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction at
Display/Adj/Set Range Default Value MTF-S9	- 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, 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
Display/Adj/Set Range Default Value MTF-S9	- 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, 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.
Display/Adj/Set Range Default Value MTF-S9 Detail	- 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, 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
Display/Adj/Set Range Default Value MTF-S9 Detail Use Case	- 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, 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 c	
MTF3-M1	MTF value 1 entry: DADF, back, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the back side at DADF 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: DADF, back, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the back side at DADF 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-M3	MTF value 3 entry: DADF, back, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the back side at DADF 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	• •
Adj/Set/Operate Method Display/Adj/Set Range	- When replacing the Scanner Unit (for back side)
•	- When replacing the Scanner Unit (for back side) Enter the setting value, and then press Apply key.
Display/Adj/Set Range	- When replacing the Scanner Unit (for back side) Enter the setting value, and then press Apply key. 0 to 100
Display/Adj/Set Range Default Value	- When replacing the Scanner Unit (for back side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 4 entry: DADF, back, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the back side at DADF 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.
Display/Adj/Set Range Default Value MTF3-M4	- When replacing the Scanner Unit (for back side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 4 entry: DADF, back, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the back side at DADF stream 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 MTF3-M4 Detail	- When replacing the Scanner Unit (for back side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 4 entry: DADF, back, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the back side at DADF 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
Display/Adj/Set Range Default Value MTF3-M4 Detail Use Case	- When replacing the Scanner Unit (for back side) Enter the setting value, and then press Apply key. 0 to 100 MTF value 4 entry: DADF, back, horz scan To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the back side at DADF 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)

COPIER (Service mode for c	copier) > ADJUST (Adjustment mode) > CCD
MTF3-M5	MTF value 5 entry: DADF, back, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction of the back side at DADF 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: DADF, back, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the back side at DADF 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-M7	MTF value 7 entry: DADF, back, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the back side at DADF 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-M8	MTF value 8 entry: DADF, back, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the back side at DADF 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-M9	MTF value 9 entry: DADF, back, horz scan
Detail	To enter the setting value for calculating MTF filter coefficient in horizontal scanning direction or the back side at DADF 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-S1	MTF value 1 entry: DADF, back, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at DADF 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: DADF, back, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at DADF 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 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)
Use Case Adj/Set/Operate Method	- When replacing the Main Controller PCB/clearing the Reader-related RAM data
	- When replacing the Main Controller PCB/clearing the Reader-related RAM data - When replacing the Scanner Unit (for back side)
Adj/Set/Operate Method	- 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.
Adj/Set/Operate Method Display/Adj/Set Range	- 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
Adj/Set/Operate Method Display/Adj/Set Range Default Value	- 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 100 100 MTF value 3 entry: DADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at DADF stream reading.
Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF3-S3	- 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 3 entry: DADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at DADF stream 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 MTF3-S3	- 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 3 entry: DADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at DADF 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
Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF3-S3 Detail	- 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 3 entry: DADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at DADF 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 Display/Adj/Set Range Default Value MTF3-S3 Detail Use Case Adj/Set/Operate Method	- 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 3 entry: DADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at DADF 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.

MTF3-S4	MTF value 4 entry: DADF, back, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at DADF 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-S5	MTF value 5 entry: DADF, back, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at DADF 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-S6	MTF value 6 entry: DADF, back, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at DADF 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	
Use Case Adj/Set/Operate Method	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 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	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.
Adj/Set/Operate Method Display/Adj/Set Range	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
Adj/Set/Operate Method Display/Adj/Set Range Default Value	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 100 100
Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF3-S7	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 7 entry: DADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at DADF stream 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 MTF3-S7	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 7 entry: DADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at DADF 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
Adj/Set/Operate Method Display/Adj/Set Range Default Value MTF3-S7 Detail	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 7 entry: DADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at DADF 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 Display/Adj/Set Range Default Value MTF3-S7 Detail Use Case Adj/Set/Operate Method	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 7 entry: DADF, back, vert scan To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the back side at DADF 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.

COPIER (Service mode for d	opier) > ADJUST (Adjustment mode) > CCD
MTF3-S8	MTF value 8 entry: DADF, back, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the
	back side at DADF stream reading.
	When replacing the Main Controller PCB/clearing the Reader-related RAM data, enter the value
	of the service label on the reader.
Una Cana	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
Display/Adj/Set Kange Default Value	100
Delault value	100
MTF3-S9	MTF value 9 entry: DADF, back, vert scan
Detail	To enter the setting value for calculating MTF filter coefficient in vertical scanning direction on the
	back side at DADF 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
000 0400	- 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
Detail	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-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	O CODIEDS ELINICATIONS CODS DIVI ACC
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC

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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 (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
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
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

COPIER (Service mode for o	copier) > ADJUST (Adjustment mode) > CCD
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
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

COPIER (Service mode for o	copier) > ADJUST (Adjustment mode) > CCD
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
Display/Adj/Set Kange 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.
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
	The offset value is automatically updated by executing CL-AGC.
Supplement/Memo	The onset value is automatically updated by executing CL-AGC.

COPIER (Service mode for c	copier) > ADJUST (Adjustment mode) > CCD
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
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

copier) > ADJUST (Adjustment mode) > CCD
Adj Img Read Sns 3 offset:bck,clr,600dpi
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.
When replacing the Main Controller PCB/clearing RAM data
Enter the setting value, and then press Apply key.
0 to 255
0
COPIER> FUNCTION> CCD> CL-AGC2
Adj Img Read Sns 1 gain: frt,B&W,300dpi
To adjust the gain 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.
When replacing the Main Controller PCB/clearing RAM data
Enter the setting value, and then press Apply key.
0 to 255
0
COPIER> FUNCTION> CCD> BW-AGC
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.
When replacing the Main Controller PCB/clearing RAM data
Enter the setting value, and then press Apply key.
0 to 255
0
COPIER> FUNCTION> CCD> BW-AGC
Adj Img Read Sns 1 gain: frt,clr,300dpi
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.
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.
0 to 255
0
COPIER> FUNCTION> CCD> CL-AGC
Adj Img Read Sns 1 gain: frt,clr,600dpi
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.
When replacing the Main Controller PCB/clearing RAM data
Enter the setting value, and then press Apply key.
0 to 255
0
COPIER> FUNCTION> CCD> CL-AGC

opier) > ADJUST (Adjustment mode) > CCD
Adj Img Read Sns 1 gain: bck,B&W,300dpi
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.
When replacing the Main Controller PCB/clearing RAM data
Enter the setting value, and then press Apply key. 0 to 255
COPIER> FUNCTION> CCD> BW-AGC2
COPIER> FUNCTION> CCD> BW-AGC2
Adj Img Read Sns 1 gain: bck,B&W,600dpi
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.
When replacing the Main Controller PCB/clearing RAM data
Enter the setting value, and then press Apply key.
0 to 255
0
COPIER> FUNCTION> CCD> BW-AGC2
Adj Img Read Sns 1 gain: bck,clr,300dpi
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.
When replacing the Main Controller PCB/clearing RAM data
Enter the setting value, and then press Apply key.
0 to 255
0
COPIER> FUNCTION> CCD> CL-AGC2
Adj Img Read Sns 1 gain: bck,clr,600dpi
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 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. 0 to 255
0
COPIER> FUNCTION> CCD> CL-AGC2
Scan Unit LED lgt time(R):frt,B&W,300dpi
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.
When replacing the Main Controller PCB/clearing RAM data
Enter the setting value, and then press Apply key.
0 to 4096
609
COPIER> FUNCTION> CCD> BW-AGC

COPIER (Service mode for c	opier) > ADJUST (Adjustment mode) > CCD
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
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-AGC
LED-BW-B	Scan Unit LED Igt 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. 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
LED2BW-R	Scan Unit LED lgt time(R):frt,B&W,600dpi
Detail	To adjust the lighting time of the red color LED of the Scanner Unit (for front side) in black mode
Detail	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
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
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 4096
Default Value Related Service Mode	1121
	COPIER> FUNCTION> CCD> BW-AGC
LED2BW-B	Scan Unit LED lgt 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 Centreller PCR/clearing RAM 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 4096
Display/Adj/Set Kalige Default Value	1121
Related Service Mode	COPIER> FUNCTION> CCD> BW-AGC
ivelated 361 AICE MIONE	OUT ILLY TO HOTTONY OODS DWINGO

COPIER (Service mode for c	opier) > ADJUST (Adjustment mode) > CCD
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
	Enter the setting value, and then press Apply key.
Adj/Set/Operate Method	
Display/Adj/Set Range	0 to 4096
Default Value Related Service Mode	865 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. 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
LED-CL-B	Scan Unit LED lgt time(B):frt,clr,300dpi
Detail	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 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
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. 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 c	opier) > ADJUST (Adjustment mode) > CCD
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. 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 lgt 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
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-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
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
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

COPIER (Service mode for c	opier) > ADJUST (Adjustment mode) > CCD
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
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
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. 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 lgt 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. 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
LE-CLGBK	
Detail	Scan Unit LED lgt time(G):bck,clr,300dpi To adjust the lighting time of the green 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
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

COPIER (Service mode for c	copier) > ADJUST (Adjustment mode) > CCD
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
LNR-GA-B	Frt/bck linearity gain crrct coeffct (B)
Detail	To adjust the blue 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-OF-R	Frt/bck linearity offset crrct coeff (R)
Detail	To adjust the red color offset 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	-128 to 127
Default Value	0
LNR-OF-G	Frt/bck linearity offset crrct coeff (G)
Detail	To adjust the green color offset 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	-128 to 127
Default Value	0
LNR-OF-B	Frt/bck linearity offset crrct coeff (B)
Detail	To adjust the blue color offset 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	-128 to 127
Default Value	0

■ PASCAL

OFST-P-Y	Adj Y-color density at test print read
Detail	To adjust the offset of Y-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
Use Case	- When replacing the Reader Offit - 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
OFST-P-M	Adj M-color density at test print read
OFST-P-M Detail	Adj M-color density at test print read To adjust the offset of M-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.
0.01	To adjust the offset of M-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.
Detail	To adjust the offset of M-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. - When replacing the Reader Unit
Detail Use Case	To adjust the offset of M-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. - When replacing the Reader Unit - When replacing the Main Controller PCB/clearing RAM data
Detail Use Case Adj/Set/Operate Method	To adjust the offset of M-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. - When replacing the Reader Unit - When replacing the Main Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key), and then press Apply key.

OFST-P-C	Adj C-color density at test print read
Detail	To adjust the offset of C-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 UnitWhen 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
OFST-P-K	Adj Bk-color density at test print read
OFST-P-K Detail	Adj Bk-color density at test print read 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.
	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.
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. - When replacing the Reader Unit
Detail Use Case	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. - When replacing the Reader Unit - When replacing the Main Controller PCB/clearing RAM data
Detail Use Case Adj/Set/Operate Method	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. - When replacing the Reader Unit - When replacing the Main Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key), and then press Apply key.

■ 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 Engine 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 Engine Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press Apply key.
Display/Adj/Set Range	-5080 to 5080
Unit	0.001 mm
Default Value	0

ADJ-MFX	opier) > ADJUST (Adjustment mode) > FEED-ADJ
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 Engine 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 Engine Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press Apply key.
Display/Adj/Set Range	-5080 to 5080
Unit	0.001 mm
Default Value	0
ADJ-MFYR	Adjustment of write start position in feed direction at Multi-purpose Tray 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 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 Engine 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 Engine Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press Apply key.
Display/Adj/Set Range	-5080 to 5080
Unit	0.001 mm
Default Value	0
ADJ-MFXR	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 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 Engine 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 Engine Controller PCB/clearing RAM data.
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press Apply key.
Display/Adj/Set Range	-5080 to 5080
Unit	0.001 mm
Default Value	0

COPIER (Service mode for c	opier) > ADJOST (Adjustment mode) > FEED-ADJ	
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 Engine 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 Engine Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press Apply key.	
Display/Adj/Set Range	-5080 to 5080	
Unit	0.001 mm	
Default Value	0	
ADJ-C1X	Adjustment of write start position in horizontal scanning direction at Cassette 1 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 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 Engine 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 Engine Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press Apply key.	
Display/Adj/Set Range	-5080 to 5080	
Unit	0.001 mm	
Default Value	0	
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 Engine 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 Engine Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press Apply key.	
Display/Adj/Set Range	-5080 to 5080	
Unit	0.001 mm	
Default Value	0	

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 Engine 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 Engine Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press Apply key.
Display/Adj/Set Range	-5080 to 5080
Unit	0.001 mm
Default Value	0
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 Engine 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 Engine Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press Apply key.
Display/Adj/Set Range	-5080 to 5080
Unit	0.001 mm
Default Value	0
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 Engine 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 Engine Controller PCB/clearing RAM data
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press Apply key.
Display/Adj/Set Range	-5080 to 5080
Display/Adj/Oct Italigo	
Unit	0.001 mm

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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 Engine 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 Engine Controller PCB/clearing RAM data	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key) and press Apply key.	
Display/Adj/Set Range	-5080 to 5080	
Unit	0.001 mm	
Default Value	0	
ADJ-C2XR	Adjustment of write start position in horizontal scanning direction at Cassette 2 pickup (1st side of 2-sided print)	
ADJ-C2XR 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 Engine Controller PCB/clearing RAM data, enter the value of service label.	
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 Engine 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 Engine 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 Engine Controller PCB/clearing RAM data	
Detail Use Case Adj/Set/Operate Method	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 Engine 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 Engine Controller PCB/clearing RAM data Enter the setting value (switch negative/positive by +/- key) and press Apply key.	

■ PANEL

COPIER (Service mode for copier) > ADJUST (Adjustment mode) > PANEL

COFIER (Service mode for copier) > ADJOST (Adjustment mode) > FANEE		
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 copier) > ADJUST (Adjustment mode) > VIFADJ

DEV-HV-Y	Adjustment of developing bias setting value (Y)	
Detail	To adjust the setting value of Y-color developing bias.	
Use Case	When an image failure occurs	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.	
Display/Adj/Set Range	-5 to 5	
Default Value	0	
Related Service Mode	COPIER> ADJUST> VIFADJ> DEV-HV-M/C/K	
DEV-HV-M	Adjustment of developing bias setting value (M)	
Detail	To adjust the setting value of M-color developing bias.	
Use Case	When an image failure occurs	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.	
Display/Adj/Set Range	-5 to 5	
Default Value	0	
Related Service Mode	COPIER> ADJUST> VIFADJ> DEV-HV-Y/C/K	
DEV-HV-C	Adjustment of developing bias setting value (C)	
Detail	To adjust the setting value of C-color developing bias.	
Use Case	When an image failure occurs	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.	
Display/Adj/Set Range	-5 to 5	
B 6 1/3/1	0	
Default Value		
Default Value Related Service Mode	COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/K	
	<u>- </u>	
Related Service Mode	COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/K	
Related Service Mode DEV-HV-K	COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/K Adjustment of developing bias setting value (Bk)	
Related Service Mode DEV-HV-K Detail	COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/K Adjustment of developing bias setting value (Bk) To adjust the setting value of Bk-color developing bias.	
Related Service Mode DEV-HV-K Detail Use Case	COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/K Adjustment of developing bias setting value (Bk) To adjust the setting value of Bk-color developing bias. When an image failure occurs	
Related Service Mode DEV-HV-K Detail Use Case Adj/Set/Operate Method	COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/K Adjustment of developing bias setting value (Bk) To adjust the setting value of Bk-color developing bias. When an image failure occurs Enter the setting value (switch negative/positive by +/- key), and then press Apply key.	
Related Service Mode DEV-HV-K Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range	COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/K Adjustment of developing bias setting value (Bk) To adjust the setting value of Bk-color developing bias. When an image failure occurs Enter the setting value (switch negative/positive by +/- key), and then press Apply key. -5 to 5	
Related Service Mode DEV-HV-K Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value	COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/K Adjustment of developing bias setting value (Bk) To adjust the setting value of Bk-color developing bias. When an image failure occurs Enter the setting value (switch negative/positive by +/- key), and then press Apply key. -5 to 5 0	
Related Service Mode DEV-HV-K Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value Related Service Mode	COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/K Adjustment of developing bias setting value (Bk) To adjust the setting value of Bk-color developing bias. When an image failure occurs Enter the setting value (switch negative/positive by +/- key), and then press Apply key. -5 to 5 0 COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/C	
Related Service Mode DEV-HV-K Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value Related Service Mode TR1-HV-Y	COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/K Adjustment of developing bias setting value (Bk) To adjust the setting value of Bk-color developing bias. When an image failure occurs Enter the setting value (switch negative/positive by +/- key), and then press Apply key. -5 to 5 COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/C Not use	
Related Service Mode DEV-HV-K Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value Related Service Mode TR1-HV-Y TR1-HV-M	COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/K Adjustment of developing bias setting value (Bk) To adjust the setting value of Bk-color developing bias. When an image failure occurs Enter the setting value (switch negative/positive by +/- key), and then press Apply key. -5 to 5 0 COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/C Not use	
Related Service Mode DEV-HV-K Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value Related Service Mode TR1-HV-Y TR1-HV-M TR1-HV-C	COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/K Adjustment of developing bias setting value (Bk) To adjust the setting value of Bk-color developing bias. When an image failure occurs Enter the setting value (switch negative/positive by +/- key), and then press Apply key. -5 to 5 COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/C Not use Not use	
Related Service Mode DEV-HV-K Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value Related Service Mode TR1-HV-Y TR1-HV-M TR1-HV-C TR1-HV-K	COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/K Adjustment of developing bias setting value (Bk) To adjust the setting value of Bk-color developing bias. When an image failure occurs Enter the setting value (switch negative/positive by +/- key), and then press Apply key. -5 to 5 0 COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/C Not use Not use Not use	
Related Service Mode DEV-HV-K Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value Related Service Mode TR1-HV-Y TR1-HV-M TR1-HV-C TR1-HV-K TR2SF-HV	COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/K Adjustment of developing bias setting value (Bk) To adjust the setting value of Bk-color developing bias. When an image failure occurs Enter the setting value (switch negative/positive by +/- key), and then press Apply key. -5 to 5 0 COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/C Not use Not use Not use Not use Adj sec transfer bias set VL (1st side)	
Related Service Mode DEV-HV-K Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value Related Service Mode TR1-HV-Y TR1-HV-M TR1-HV-C TR1-HV-K TR2SF-HV Detail	COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/K Adjustment of developing bias setting value (Bk) To adjust the setting value of Bk-color developing bias. When an image failure occurs Enter the setting value (switch negative/positive by +/- key), and then press Apply key. -5 to 5 0 COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/C Not use Not use Not use Adj sec transfer bias set VL (1st side) To adjust the setting value of secondary transfer bias applied to the 1st side.	
Related Service Mode DEV-HV-K Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value Related Service Mode TR1-HV-Y TR1-HV-M TR1-HV-C TR1-HV-K TR2SF-HV Detail Use Case	COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/K Adjustment of developing bias setting value (Bk) To adjust the setting value of Bk-color developing bias. When an image failure occurs Enter the setting value (switch negative/positive by +/- key), and then press Apply key. -5 to 5 0 COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/C Not use Not use Not use Not use Adj sec transfer bias set VL (1st side) To adjust the setting value of secondary transfer bias applied to the 1st side. When an image failure occurs	
Related Service Mode DEV-HV-K Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range Default Value Related Service Mode TR1-HV-Y TR1-HV-M TR1-HV-C TR1-HV-K TR2SF-HV Detail Use Case Adj/Set/Operate Method	COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/K Adjustment of developing bias setting value (Bk) To adjust the setting value of Bk-color developing bias. When an image failure occurs Enter the setting value (switch negative/positive by +/- key), and then press Apply key. -5 to 5 0 COPIER> ADJUST> VIFADJ> DEV-HV-Y/M/C Not use Not use Not use Not use Adj sec transfer bias set VL (1st side) To adjust the setting value of secondary transfer bias applied to the 1st side. When an image failure occurs Enter the setting value (switch negative/positive by +/- key), and then press Apply key.	

TR2BK-HV	Adj sec transfer bias set VL (2nd side)	
Detail	To adjust the setting value of secondary transfer bias applied to the 2nd side.	
Use Case	When an image failure occurs	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.	
Display/Adj/Set Range	-5 to 5	
Default Value	0	
Related Service Mode	COPIER> ADJUST> VIFADJ> TR2SF-HV	
ICL-HV	Adj of ITB cleaning bias setting value	
Detail	To adjust the setting value of the bias to be applied at the time of ITB cleaning.	
Use Case	When an image failure occurs	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.	
Display/Adj/Set Range	-5 to 5	
Default Value	0	
FU-TMP	Adj of Fixing Film surface temp set VL	
Detail	To adjust the setting value of the surface temperature of the Fixing Film.	
Use Case	When an image failure occurs	
Adj/Set/Operate Method	Enter the setting value (switch negative/positive by +/- key), and then press Apply key.	
Display/Adj/Set Range	-2 to 2	
Default Value	0	

■ SCNR

COPIER (Service mode for copier) > ADJUST (Adjustment mode) > SCNR

SUB-S-Y0	Not use
SUB-S-M0	Not use
SUB-S-C0	Not use
SUB-S-K0	Not use
SUB-S-Y1	Not use
SUB-S-M1	Not use
SUB-S-C1	Not use
SUB-S-K1	Not use
SUB-S-Y2	Not use
SUB-S-M2	Not use
SUB-S-C2	Not use
SUB-S-K2	Not use
MAI-S-Y0	Not use
MAI-S-M0	Not use
MAI-S-C0	Not use
MAI-S-K0	Not use
MAI-S-Y1	Not use
MAI-S-M1	Not use
MAI-S-C1	Not use
MAI-S-K1	Not use
MAI-S-Y2	Not use
MAI-S-M2	Not use

MAI-S-C2	Not use	
MAI-S-K2	Not use	



FUNCTION (Operation / inspection mode)

■ INSTALL

`	operation (operation) inspection models involved	
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 DADF.	
	The adjustment result is reflected to COPIER> ADJUST> ADJ-XY> STRD-POS.	
Use Case	- At DADF installation/uninstallation	
	- When replacing the Scanner Unit/clearing RAM data	
Adj/Set/Operate Method	1) Close the DADF.	
	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	
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	Enter the setting value, and then press Apply key. 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	

COPIER (Service mode for c	copier) > FUNCTION (Operation / inspection mode) > INSTALL	
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	
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 DADF.	
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 DADF. 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 DADF. 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	

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-BY OFST-BW0/BW1/BW2, GAIN-BW0, LED-BY OFST-BW0/BW1/BW2, GAIN-BW0, LED-BY OFST-BW0/BW1/BW2, GAIN-BW0, LED-BY OFST-BW0/BW1/BW2, GAIN-BW0, LED-BW-R/G/B are automatically calculated. When replacing the Reader Unit - When replacing the Reader Unit - When replacing the Scanner Unit Adj/Set/Operate Method COPIERS PUNCTION> CCD> CL-AGC COPIERS PUNCTION> CCD> CL-AGC Adj Scan Unit (bck) B&W ref: stream, cir - Orable the adjustment with both resolutions 300 dpi and 600 dpi. When this item is executed, the values of OF-CLOBK/CL1BK/CB/BK/GBK/BBK/OFSCLOBK/CL1BK/CL2BK, GA2CLOBK, LE-CLRBK/GBK/BBK/OFSCLOBK/CL1BK/CL2BK, GA2CLOBK, LE-CLRBK/GBK/BBK/BBK/BBK/BBK/BBK/BBK/BBK/BBK/B	OOI IEIT (OCIVICE IIIOGE IOI C	sopiety's 1 diversion (operation) inspection modely's con-
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-BY OFST-BW0/BW1/BW2, GAIN-BW0, LED-BY OFST-BW0/BW1/BW2, GAIN-BW0, LED-BY OFST-BW0/BW1/BW2, GAIN-BW0, LED-BY OFST-BW0/BW1/BW2, GAIN-BW0, LED-BW-R/G/B are automatically calculate with the control of the co	BW-AGC	Adj Scan Unit (frt) B&W ref: stream, B&W
- When replacing the Scanner Unit 1) Set paper on the DADF. 2) Select the tiem, and then press Yes key. Related Service Mode COPIER> FUNCTION> CCD> CL-AGC COPIER> ADJUST> CCD> CL-AGC Adj Scan Unit (bck) B&W rof: stream, clr To automatically adjust the black/white reference level of the Scanner Unit (for back side 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-CLOBK/CL1BK/CL2BK, GA-CL0BK, LE-CLRBK/GBK/BB. Use Case - When replacing the Reader Unit - When replacing the Reader Unit - When replacing the Scanner Unit 1) Set paper on the DADF. 2) Select the item, and then press Yes key. COPIER> ADJUST> CCD> BW-AGC2 COPIER> ADJUST> CCD> DF-CL0BK/CL1BK/CL2BK, GA-CL0BK, LE-CLRBK/GBK/GBK/GE-CL0BK/CL1BK/CL2BK, GA-CL0BK, LE-CLRBK/GBK/GBK/GE-CL0BK/CL1BK/CL2BK, GA-CL0BK, LE-CLRBK/GBK/GBK/GE-CL0BK/CL1BK/CL2BK, GA-CL0BK, LE-CLRBK/GBK/GBK/GE-CL0BK/CL1BK/CL2BK, GA-CL0BK, LE-CLRBK/GBK/GBK/GE-CL0BK/CL1BK/CL2BK, GA-CL0BK, LE-CLRBK/GBK/GBK/GE-CL0BK/CL1BK/CL2BK, GA-CL0BK, LE-CLRBK/GBK/GBK/GBK/GE-CL0BK/CL1BK/CL2BK, GA-CL0BK, LE-CLRBK/GBK/GBK/GBK/GBK/GE-CL0BK/CL1BK/CL2BK, GA-CL0BK, LE-CLRBK/GBK/GBK/GBK/GBK/GBK/GBK/GBK/GBK/GBK/G	Detail	<u> </u>
2) Select the item, and then press Yes key. COPIER ADJUSTS CCD > CET-AGC SUPPRION TO COPE CL-AGC SUPPRION TO COPE CL-AGC AGC Automatic Gain Control CL-AGC2 Adj Scan Unit (bck) B&W ref: stream, cir Detail To automatically adjust the black/white reference level of the Scanner Unit (for back side 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-CLOBK/CL1BK/CL2BK, GA-CLOBK, LE-CLRBK/GBK/BBK, OF-2LOBK/CL1BK/CL2BK, GA2CLOBK, and LE2CLRBK/GBK/BB. Use Case When replacing the Reader Unit - When replacing the Reader Unit - When replacing the Scanner Unit (both B&W ref: stream, B&W Related Service Mode Related Service Mode Adj/Set/Operate Method Detail To automatically adjust the black/white reference level of the Scanner Unit (for back side 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-CLRBK/GBK/BBK AGC: Automatic Gain Control BW-AGC2 Adj Scan Unit (bck) B&W ref: stream, B&W To automatically adjust the black/white reference level of the Scanner Unit (for back side 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, LEGR/BWR/BC/BC/BW0BK/BW1BK/BW2BK, GA2BW0BK, and LE2BWRBK/GBK/BBK are automatically calculated. Use Case Related Service Method Adj/Set/Operate Method BW-TGT Set of B&W shading target value When replacing the Ceaner Unit Add then press Yes key. COPIER> FUNCTION> CCD> CL-AGC2 COPIER> FUNCTION> CCD> CL-AGC2 COPIER> ADJUST> CCD> OF-BW0BK/BW1BK/BW2BK, GA-BW0BK, LE-BWRBK/G COPIER> ADJUST> CCD> W-PLT-X/Y/Z COPIER> ADJUST> CCD> W-PLT-X/Y/Z	Use Case	. •
COPIER> ADJUST> CCD> OFST_BW0/BW1/BW2, GAIN-BW0, LED-BW-R/G/B, OFST2BW0/BW1/BW2, GAIN2BW0, LED2BW-R/G/B Supplement/Memo AGC: Automatic Gain Control 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 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/BBC automatically calculated. - When replacing the Reader Unit - When replacing the Scanner Unit Adj/Set/Operate Method 1) Set paper on the DADF. 2) Select the item, and then press Yes key. Related Service Mode 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 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-GBK/BBK, OF2BW0BK/BW1BK/BW2BK, GA2BW0BK, and LE2BWRBK/GBK/BBK are automatically calculated. - When replacing the Reader Unit - When replacing the Reader Unit - When replacing the Scanner Unit Adj/Set/Operate Method Related Service Mode BW-TGT Detail After the white level data (XYYZ) for the Standard White Plate is set, read the Standard and set the black and white shading target value. When replacing the Copyboard Glass/Scanner Unit Select the item, and then press Yeas Replace Value. When replacing the Copyboard Glass/Scanner Unit Be sure to execute this item after execution of W-PLT-XYY/Z.	Adj/Set/Operate Method	
CL-AGC2 Adj Scan Unit (bck) B&W ref: stream, cir To automatically adjust the black/white reference level of the Scanner Unit (for back side 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-CLOBK/CL1BK/CL2BK, GA-CLOBK, LE-CLRBK/GBK/BBK, OF2CLOBK/CL1BK/CL2BK, GA2CLOBK, and LE2CLRBK/GBK/BBG automatically calculated. Use Case - When replacing the Reader Unit - When replacing the Reader Unit - When replacing the Scanner Unit 1) Set paper on the DADF. 2) Select the item, and then press Yes key. COPIERS FUNCTIONS CCDS BW-AGC2 COPIERS ADJUSTS CCDS OF-CLOBK/CL1BK/CL2BK, GA-CLOBK, LE-CLRBK/GBK/GBK/GEZCLOBK/CL1BK/CL2BK, GA-CLOBK, LE-CLRBK/GBK/GEZCLOBK/CL1BK/CL2BK, GA-CLOBK, LE-CLRBK/GBK/GBK/GEZCLOBK/CL1BK/CL2BK, GA-CLOBK, LE-CLRBK/GBK/GBK/GBK/GBK/GEZCLOBK/CL1BK/CL2BK, GA-CLOBK, LE-CLRBK/GBK/GBK/GBK/GBK/GBK/GEZCLOBK/CL1BK/CL2BK, GA-CLOBK, LE-CLRBK/GBK/GBK/GBK/GBK/GBK/GBK/GBK/GBK/GBK/G	Related Service Mode	COPIER> ADJUST> CCD> OFST-BW0/BW1/BW2, GAIN-BW0, LED-BW-R/G/B,
Detail To automatically adjust the black/white reference level of the Scanner Unit (for back side 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-CLOBK/CL1BK/CL2BK, GA-CLOBK, LE-CLRBK/GBK/BBK, OF2CLOBK/CL1BK/CL2BK, GA2CLOBK, and LE2CLRBK/GBK/BBK automatically calculated. Use Case - When replacing the Reader Unit - When replacing the Scanner Unit 1) Set paper on the DADF. 2) Select the item, and then press Yes key. COPIER> FUNCTION> CCD> BW-AGC2 COPIER> ADJUST> CCD> OF-CLOBK/CL1BK/CL2BK, GA-CLOBK, LE-CLRBK/GBK/GBK/GP2CLOBK/CL1BK/CL2BK, GA2CLOBK, LE2CLRBK/GBK/GPK/GP2CLOBK/CL1BK/CL2BK, GA2CLOBK, LE2CLRBK/GBK/GPX/GPX/GPX/GPX/GPX/GPX/GPX/GPX/GPX/GPX	Supplement/Memo	AGC: Automatic Gain Control
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-CLOBK/CL1BK/CL2BK, GA-CLOBK, LE-CLRBK/GBK/BBK, OF2CLOBK/CL1BK/CL2BK, GA2CLOBK, and LE2CLRBK/GBK/BB automatically calculated. When replacing the Reader Unit - When replacing the Scanner Unit Adj/Set/Operate Method 1) Set paper on the DADF. 2) Select the item, and then press Yes key. COPIER> FUNCTION> CCD> BW-AGC2 COPIER> ADJUST> CCD> OF-CLOBK/CL1BK/CL2BK, GA-CLOBK, LE-CLRBK/GBK/GBK/GBK/GBK/GBK/GBK/GBK/GBK/GBK/G	CL-AGC2	Adj Scan Unit (bck) B&W ref: stream, clr
Adj/Set/Operate Method 1) Set paper on the DADF. 2) Select the item, and then press Yes key. COPIER> FUNCTION> CCD> BW-AGC2 COPIER> ADJUST> CCD> OF-CLOBK/CL1BK/CL2BK, GA-CL0BK, LE-CLRBK/GBK/OF2CL0BK/CL1BK/CL2BK, GA2CL0BK, LE2CLRBK/GBK/BBK Supplement/Memo BW-AGC2 Adj Scan Unit (bck) B&W ref: stream, B&W To automatically adjust the black/white reference level of the Scanner Unit (for back side 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, LGBK/BBK, OF2BW0BK/BW1BK/BW2BK, GA2BW0BK, and LE2BWRBK/GBK/BBK ar automatically calculated. - When replacing the Reader Unit - When replacing the Reader Unit 1) Set paper on the DADF. 2) Select the item, and then press Yes key. COPIER> FUNCTION> CCD> CL-AGC2 COPIER> ADJUST> CCD> OF-BW0BK/BW1BK/BW2BK, GA-BW0BK, LE-BWRBK/GBC ABW0BK/BW1BK/BW2BK, GA-BW0BK, LE-BWRBK/GBC ABW0BK, LE-	Detail	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
2) Select the item, and then press Yes key. COPIER> FUNCTION> CCD> BW-AGC2 COPIER> ADJUST> CCD> OF-CLOBK/CL1BK/CL2BK, GA-CL0BK, LE-CLRBK/GBK/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 To automatically adjust the black/white reference level of the Scanner Unit (for back side 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, L 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 1) Set paper on the DADF. 2) Select the item, and then press Yes key. COPIER> FUNCTION> CCD> CL-AGC2 COPIER> ADJUST> CCD> CL-AGC2 COPIER> ADJUST> CCD> CD-BW0BK/BW1BK/BW2BK, GA-BW0BK, LE-BWRBK/GBK/BBK Supplement/Memo BW-TGT Set of B&W shading target value Adj/Set/Operate Method Caution Related Service Mode COPIER> ADJUST> CCD> W-PLT-X/Y/Z. Eester the item, and then press Apply key. Be sure to execute this item after execution of W-PLT-X/Y/Z.	Use Case	
COPIER> ADJUST> CCD> OF-CL0BK/CL1BK/CL2BK, GA-CL0BK, LE-CLRBK/GBK/OF2CL0BK/CL1BK/CL2BK, GA2CL0BK, LE2CLRBK/GBK/BBK AGC: Automatic Gain Control BW-AGC2 Adj Scan Unit (bck) B&W ref: stream, B&W To automatically adjust the black/white reference level of the Scanner Unit (for back side 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, LGBK/BBK or automatically calculated. - When replacing the Reader Unit - When replacing the Scanner Unit 1) Set paper on the DADF. 2) Select the item, and then press Yes key. COPIER> FUNCTION> CCD> CL-AGC2 COPIER> ADJUST> CCD> OF-BW0BK/BW1BK/BW2BK, GA-BW0BK, LE-BWRBK/GBK/BBK Supplement/Memo 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 Wand set the black and white shading target value. When replacing the Copyboard Glass/Scanner Unit Select the item, and then press Apply key. Be sure to execute this item after execution of W-PLT-X/Y/Z.	Adj/Set/Operate Method	
BW-AGC2 Adj Scan Unit (bck) B&W ref: stream, B&W To automatically adjust the black/white reference level of the Scanner Unit (for back side 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, LGBK/BBK, OF2BW0BK/BW1BK/BW2BK, GA2BW0BK, and LE2BWRBK/GBK/BBK are automatically calculated. Use Case - When replacing the Reader Unit - When replacing the Scanner Unit 1) Set paper on the DADF. 2) 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/GDEW/BW1BK/BW2BK, GA2BW0BK, LE2BWRBK/GBK/BBK Supplement/Memo AGC: Automatic Gain Control BW-TGT Set of B&W shading target value Use Case When replacing the Copyboard Glass/Scanner Unit Select the item, and then press Apply key. Be sure to execute this item after execution of W-PLT-X/Y/Z. COPIER> ADJUST> CCD> W-PLT-X/Y/Z.	Related Service Mode	COPIER> ADJUST> CCD> OF-CL0BK/CL1BK/CL2BK, GA-CL0BK, LE-CLRBK/GBK/BBK,
Detail To automatically adjust the black/white reference level of the Scanner Unit (for back side 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, L 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 1) Set paper on the DADF. 2) Select the item, and then press Yes key. COPIER> FUNCTION> CCD> CL-AGC2 COPIER> ADJUST> CCD> OF-BW0BK/BW1BK/BW2BK, GA-BW0BK, LE-BWRBK/GOF2BW0BK/BW1BK/BW2BK, GA2BW0BK, LE2BWRBK/GBK/BBK Supplement/Memo BW-TGT Set of B&W shading target value After the white level data (X/Y/Z) for the Standard White Plate is set, read the Standard wand set the black and white shading target value. When replacing the Copyboard Glass/Scanner Unit Select the item, and then press Apply key. Be sure to execute this item after execution of W-PLT-X/Y/Z. COPIER> ADJUST> CCD> W-PLT-X/Y/Z.	Supplement/Memo	AGC: Automatic Gain Control
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, L GBK/BBK, OF2BW0BK/BW1BK/BW2BK, GA2BW0BK, and LE2BWRBK/GBK/BBK ar automatically calculated. When replacing the Reader Unit - When replacing the Scanner Unit 1) Set paper on the DADF. 2) 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/GOF2BW0BK/BW1BK/BW2BK, GA2BW0BK, LE2BWRBK/GBK/BBK Supplement/Memo BW-TGT Set of B&W shading target value After the white level data (X/Y/Z) for the Standard White Plate is set, read the Standard Vand set the black and white shading target value. When replacing the Copyboard Glass/Scanner Unit Select the item, and then press Apply key. Caution Related Service Mode COPIER> ADJUST> CCD> W-PLT-X/Y/Z	BW-AGC2	Adj Scan Unit (bck) B&W ref: stream, B&W
- When replacing the Scanner Unit 1) Set paper on the DADF. 2) Select the item, and then press Yes key. COPIER> FUNCTION> CCD> CL-AGC2	Detail	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
2) Select the item, and then press Yes key. COPIER> FUNCTION> CCD> CL-AGC2	Use Case	·
COPIER> ADJUST> CCD> OF-BW0BK/BW1BK/BW2BK, GA-BW0BK, LE-BWRBK/GOF2BW0BK/BW1BK/BW2BK, GA2BW0BK, LE2BWRBK/GBK/BBK Supplement/Memo BW-TGT Set of B&W shading target value After the white level data (X/Y/Z) for the Standard White Plate is set, read the Standard White shading target value. Use Case When replacing the Copyboard Glass/Scanner Unit Select the item, and then press Apply key. Be sure to execute this item after execution of W-PLT-X/Y/Z. COPIER> ADJUST> CCD> W-PLT-X/Y/Z	Adj/Set/Operate Method	
BW-TGT Set of B&W shading target value After the white level data (X/Y/Z) for the Standard White Plate is set, read the Standard and set the black and white shading target value. When replacing the Copyboard Glass/Scanner Unit Select the item, and then press Apply key. Be sure to execute this item after execution of W-PLT-X/Y/Z. COPIER> ADJUST> CCD> W-PLT-X/Y/Z	Related Service Mode	COPIER> ADJUST> CCD> OF-BW0BK/BW1BK/BW2BK, GA-BW0BK, LE-BWRBK/GBK/BBK,
After the white level data (X/Y/Z) for the Standard White Plate is set, read the Standard V and set the black and white shading target value. Use Case When replacing the Copyboard Glass/Scanner Unit Select the item, and then press Apply key. Be sure to execute this item after execution of W-PLT-X/Y/Z. COPIER> ADJUST> CCD> W-PLT-X/Y/Z	Supplement/Memo	AGC: Automatic Gain Control
and set the black and white shading target value. When replacing the Copyboard Glass/Scanner Unit Select the item, and then press Apply key. 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	BW-TGT	Set of B&W shading target value
Adj/Set/Operate Method Caution Related Service Mode Select the item, and then press Apply key. Be sure to execute this item after execution of W-PLT-X/Y/Z. COPIER> ADJUST> CCD> W-PLT-X/Y/Z	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.
Caution Be sure to execute this item after execution of W-PLT-X/Y/Z. COPIER> ADJUST> CCD> W-PLT-X/Y/Z	Use Case	When replacing the Copyboard Glass/Scanner Unit
Related Service Mode COPIER> ADJUST> CCD> W-PLT-X/Y/Z	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.
COLLETA DISPERTA CODA TANGETON	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 SATA Flash 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 DADF. 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
BK-SHD2 Detail	Paper back shading correction 2 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).
	To generate the paper back shading correction data by scanning the Standard White Plate of the
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). - When replacing the SATA Flash PCB
Detail Use Case	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). - When replacing the SATA Flash PCB - When replacing the Scanner Unit (for back side) 1) Clean the glass of the Scanner Unit (for back side) and the Reading Glass. 2) Close the DADF.

■ CLEAR

R-CON	Initialization of Reader/DADF
Detail	To initialize the factory adjustment values of the Reader/DADF.
Use Case	When clearing RAM data of the Reader/DADF
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/DADF 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.

· .	,
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/DADF
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
ERDS-DAT Detail	Initialize of Embedded-RDS setting value 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.
	To initialize the Embedded-RDS setting values. ON/OFF of Embedded-RDS, UGW port number and communication error log set in ERDS, RGW-
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.
Detail Use Case	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. When upgrading the Bootable in the Embedded-RDS environment
Detail Use Case Adj/Set/Operate Method	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. When upgrading the Bootable in the Embedded-RDS environment Select the item, and then press Yes key. Use of the SRAM in Embedded-RDS differs depending on the Bootable version. Therefore, unless
Detail Use Case Adj/Set/Operate Method Caution	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. When upgrading the Bootable in the Embedded-RDS environment Select the item, and then press Yes key. 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.
Detail Use Case Adj/Set/Operate Method Caution Related Service Mode	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. When upgrading the Bootable in the Embedded-RDS environment Select the item, and then press Yes key. 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. COPIER> FUNCTION> INSTALL> ERDS, RGW-PORT, COM-LOG Embedded-RDS: Function to send device information such as the device counter, failure, and consumables to UGW via SOAP protocol
Use Case Adj/Set/Operate Method Caution Related Service Mode Supplement/Memo	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. When upgrading the Bootable in the Embedded-RDS environment Select the item, and then press Yes key. 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. COPIER> FUNCTION> INSTALL> ERDS, RGW-PORT, COM-LOG 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
Use Case Adj/Set/Operate Method Caution Related Service Mode Supplement/Memo	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. When upgrading the Bootable in the Embedded-RDS environment Select the item, and then press Yes key. 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. COPIER> FUNCTION> INSTALL> ERDS, RGW-PORT, COM-LOG 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 Clear security policy setting password

■ 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 CIS Unit LED
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 CIS Unit LED
Adj/Set/Operate Method	Select the item, and then press Yes key.

 ${\tt COPIER} \ ({\tt Service} \ {\tt mode} \ {\tt for} \ {\tt copier}) > {\tt FUNCTION} \ ({\tt Operation} \ {\tt /} \ {\tt inspection} \ {\tt mode}) > {\tt MISC-R}$

OOT IET (OCTATION THOUSE FOR C	opinity i diversity (operation, inoposition mode), when it
1PSCLB-A	Exe frt/bck clr differ calibration: frt
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 DADF caused by variations in the LED and changes in durability. Such a color difference is corrected by executing 1PSCLB-B following 1PSCLB-A.
Use Case	When a significant color difference occurs between the front and back side at DADF duplex reading
Adj/Set/Operate Method	Place the paper on which PG is printed on the DADF. 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-B COPIER> DISPLAY> CCD> 1P-ERR-A/B
Supplement/Memo	The execution result of this item is displayed in 1P-ERR-A.
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 DADF caused by variations in the LED and changes in durability. Such a color difference is corrected by executing 1PSCLB-B following 1PSCLB-A.
Use Case	When a significant color difference occurs between the front and back side at DADF duplex reading
Adj/Set/Operate Method	 Place the paper used by 1PSCLB-A on the DADF so that the front side is faced down and the cyan image is placed at the left rear side. 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

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
Detail	To output the cartridge replacement log in the form of a report.
Use Case	When checking the cartridge replacement log
Adj/Set/Operate Method	Select the item, and then press Yes key.

■ SYSTEM

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.
	opginaming to portrolline times in the root amounts of the object and of the object and
Use Case	At upgrade
Use Case Adj/Set/Operate Method	
	At upgrade 1. Connect the USB flash drive. 2. Select the item, and then press Yes.

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
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.
Caution	Do not turn OFF/ON the power before "Executing" disappears.
Related Service Mode	COPIER> FUNCTION> SYSTEM> LOG2USB
IMPORT	Read s-mode set VL from USB flash drive
Detail	To read the service mode setting information (excluding those related to Reader/DADF, but
	including those related to Finisher) from the USB flash drive.
Use Case	When replacing the Main Controller PCB
Adj/Set/Operate Method	Connect the USB flash drive.
	2. Select the item, and then press Yes.
	3. Turn OFF/ON the main power.
Caution	Do not turn OFF/ON the power before "Executing" disappears.
Related Service Mode	COPIER> FUNCTION> SYSTEM> EXPORT
EXPORT	Writing of service mode setting value to USB memory
Detail	To write the service mode setting information (excluding those related to Reader/DADF, but
	including those related to Finisher) 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
SAVE-SM	Backup of service mode setting info
Detail	To back up the service mode setting information (excluding those related to Reader/DADF, but
	including those related to Finisher) as a file to the USB flash drive using DCM function.
	The setting information which has been backed up can be restored with RSTR-SM.
Use Case	When saving the setting information before changing the service mode settings
Adj/Set/Operate Method	Select the item, and then press Yes key.
Related Service Mode	COPIER> FUNCTION> SYSTEM> RSTR-SM
Supplement/Memo	DCM (Device Configuration Management): A function to export/import the machine's setting information as a file.
	instruction do a mo.
RSTR-SM	Restore of service mode setting info
RSTR-SM Detail	
	Restore of service mode setting info
	Restore of service mode setting info To restore the service mode setting information (excluding those related to Reader/DADF, but
	Restore of service mode setting info To restore the service mode setting information (excluding those related to Reader/DADF, but including those related to Finisher) which has been backed up with SAVE-SM from the USB flash
Detail	Restore of service mode setting info To restore the service mode setting information (excluding those related to Reader/DADF, but including those related to Finisher) which has been backed up with SAVE-SM from the USB flash drive using DCM function.
Detail Use Case	Restore of service mode setting info To restore the service mode setting information (excluding those related to Reader/DADF, but including those related to Finisher) which has been backed up with SAVE-SM from the USB flash drive using DCM function. When changing the service mode settings back to those before the change
Detail Use Case Adj/Set/Operate Method	Restore of service mode setting info To restore the service mode setting information (excluding those related to Reader/DADF, but including those related to Finisher) which has been backed up with SAVE-SM from the USB flash drive using DCM function. When changing the service mode settings back to those before the change Select the item, and then press Yes key.
Detail Use Case Adj/Set/Operate Method	Restore of service mode setting info To restore the service mode setting information (excluding those related to Reader/DADF, but including those related to Finisher) which has been backed up with SAVE-SM from the USB flash drive using DCM function. When changing the service mode settings back to those before the change Select the item, and then press Yes key. It is necessary to back up the setting information using SAVE-SM in order to restore the information
Detail Use Case Adj/Set/Operate Method Caution	Restore of service mode setting info To restore the service mode setting information (excluding those related to Reader/DADF, but including those related to Finisher) which has been backed up with SAVE-SM from the USB flash drive using DCM function. When changing the service mode settings back to those before the change Select the item, and then press Yes key. It is necessary to back up the setting information using SAVE-SM in order to restore the information with RSTR-SM.
Detail Use Case Adj/Set/Operate Method Caution Related Service Mode	Restore of service mode setting info To restore the service mode setting information (excluding those related to Reader/DADF, but including those related to Finisher) which has been backed up with SAVE-SM from the USB flash drive using DCM function. When changing the service mode settings back to those before the change Select the item, and then press Yes key. It is necessary to back up the setting information using SAVE-SM in order to restore the information with RSTR-SM. COPIER> FUNCTION> SYSTEM> SAVE-SM

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
ADI ADDI	
SPL37510	ON/OFF of ITB cleaning at paper size mismatch
SPL37510 Detail	ON/OFF of ITB cleaning at paper size mismatch Normally, when paper other than that of the specified size is fed, ITB cleaning is executed to remove toner. When 1 is set, ITB cleaning is not executed even if paper size is mismatched. Productivity improves, but toner soiling may occur.
5. 25. 5. 6	Normally, when paper other than that of the specified size is fed, ITB cleaning is executed to remove toner. When 1 is set, ITB cleaning is not executed even if paper size is mismatched. Productivity
Detail	Normally, when paper other than that of the specified size is fed, ITB cleaning is executed to remove toner. When 1 is set, ITB cleaning is not executed even if paper size is mismatched. Productivity improves, but toner soiling may occur.
Detail Use Case	Normally, when paper other than that of the specified size is fed, ITB cleaning is executed to remove toner. When 1 is set, ITB cleaning is not executed even if paper size is mismatched. Productivity improves, but toner soiling may occur. When paper size is mismatched
Detail Use Case Adj/Set/Operate Method	Normally, when paper other than that of the specified size is fed, ITB cleaning is executed to remove toner. When 1 is set, ITB cleaning is not executed even if paper size is mismatched. Productivity improves, but toner soiling may occur. When paper size is mismatched Enter the setting value, and then press Apply key.

SOT IETY (OCTATION THOUSE FOR ON	
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 th
	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	Enter the setting value, and then press Apply key.
Adjoetroperate metriod	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	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> SPL65677
SPL68677	Increase of paper right and left margins
Detail	To increase the margins on the right and left edges 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
Adi/Set/Operate Method	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	The margin settings which are job-specific or based on the printable area are applied regardless
Adj/Set/Operate Method Display/Adj/Set Range	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.
	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.
Display/Adj/Set Range	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
Display/Adj/Set Range Unit	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
Display/Adj/Set Range Unit Default Value Related Service Mode	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 0 COPIER> FUNCTION> SPLMAN> SPL25607
Display/Adj/Set Range Unit Default Value Related Service Mode SPL25607	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 0 COPIER> FUNCTION> SPLMAN> SPL25607 Decrease of paper right and left margins
Display/Adj/Set Range Unit Default Value Related Service Mode	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 0 COPIER> FUNCTION> SPLMAN> SPL25607 Decrease of paper right and left margins To decrease the margins on the right and left edges of paper.
Display/Adj/Set Range Unit Default Value Related Service Mode SPL25607	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 0 COPIER> FUNCTION> SPLMAN> SPL25607 Decrease of paper right and left margins To decrease the margins on the right and left edges of paper. As the value is incremented by 1, the margin is decreased by 0.1 mm.
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Display/Adj/Set Range Unit Default Value Related Service Mode SPL25607	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 0 COPIER> FUNCTION> SPLMAN> SPL25607 Decrease of paper right and left margins To decrease the margins on the right and left edges 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.
Display/Adj/Set Range Unit Default Value Related Service Mode SPL25607	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 0 COPIER> FUNCTION> SPLMAN> SPL25607 Decrease of paper right and left margins To decrease the margins on the right and left edges 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.
Display/Adj/Set Range Unit Default Value Related Service Mode SPL25607 Detail Adj/Set/Operate Method	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 0 COPIER> FUNCTION> SPLMAN> SPL25607 Decrease of paper right and left margins To decrease the margins on the right and left edges 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.
Display/Adj/Set Range Unit Default Value Related Service Mode SPL25607 Detail Adj/Set/Operate Method Display/Adj/Set Range	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 0 COPIER> FUNCTION> SPLMAN> SPL25607 Decrease of paper right and left margins To decrease the margins on the right and left edges 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
Display/Adj/Set Range Unit Default Value Related Service Mode SPL25607 Detail Adj/Set/Operate Method	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 0 COPIER> FUNCTION> SPLMAN> SPL25607 Decrease of paper right and left margins To decrease the margins on the right and left edges 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.
Display/Adj/Set Range Unit Default Value Related Service Mode SPL25607 Detail Adj/Set/Operate Method Display/Adj/Set Range	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 0 COPIER> FUNCTION> SPLMAN> SPL25607 Decrease of paper right and left margins To decrease the margins on the right and left edges 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

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	 Enter the setting value, and then press Apply key. 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
SPL41250	Initialize color displacement correction
Detail	the setting at the time of factory shipment. When 1 is set in the case that color displacement correction fails after replacement of the cartridge
Detail Use Case	If shortage of toner occurs while [Continue Printing (Quality Not Guaranteed)] is selected by the user, color displacement correction cannot be executed. If color displacement correction cannot be executed while 1 is set, printing is continued based or the setting at the time of factory shipment.
	If shortage of toner occurs while [Continue Printing (Quality Not Guaranteed)] is selected by the user, color displacement correction cannot be executed. If color displacement correction cannot be executed while 1 is set, printing is continued based or the setting at the time of factory shipment. When 1 is set in the case that color displacement correction fails after replacement of the cartridge the correction may succeed. - When prioritizing productivity over image quality
Use Case	If shortage of toner occurs while [Continue Printing (Quality Not Guaranteed)] is selected by the user, color displacement correction cannot be executed. If color displacement correction cannot be executed while 1 is set, printing is continued based or the setting at the time of factory shipment. When 1 is set in the case that color displacement correction fails after replacement of the cartridge the correction may succeed. - When prioritizing productivity over image quality - When color displacement correction fails even though there is sufficient toner remains 1) Select the item, and then press Yes key. 2) Turn OFF/ON the main power switch.
Use Case Adj/Set/Operate Method	If shortage of toner occurs while [Continue Printing (Quality Not Guaranteed)] is selected by the user, color displacement correction cannot be executed. If color displacement correction cannot be executed while 1 is set, printing is continued based or the setting at the time of factory shipment. When 1 is set in the case that color displacement correction fails after replacement of the cartridge the correction may succeed. - When prioritizing productivity over image quality - When color displacement correction fails even though there is sufficient toner remains 1) Select the item, and then press Yes key. 2) Turn OFF/ON the main power switch. 3) Execute print color displacement correction. - Do not turn OFF/ON the power before "Executing" disappears.
Use Case Adj/Set/Operate Method Caution Additional Functions	If shortage of toner occurs while [Continue Printing (Quality Not Guaranteed)] is selected by the user, color displacement correction cannot be executed. If color displacement correction cannot be executed while 1 is set, printing is continued based or the setting at the time of factory shipment. When 1 is set in the case that color displacement correction fails after replacement of the cartridge the correction may succeed. - When prioritizing productivity over image quality - When color displacement correction fails even though there is sufficient toner remains 1) Select the item, and then press Yes key. 2) Turn OFF/ON the main power switch. 3) Execute print color displacement correction. - Do not turn OFF/ON the power before "Executing" disappears. - Be sure to perform print color displacement correction after turning OFF/ON the power.
Use Case Adj/Set/Operate Method Caution Additional Functions Mode	If shortage of toner occurs while [Continue Printing (Quality Not Guaranteed)] is selected by the user, color displacement correction cannot be executed. If color displacement correction cannot be executed while 1 is set, printing is continued based or the setting at the time of factory shipment. When 1 is set in the case that color displacement correction fails after replacement of the cartridge the correction may succeed. - When prioritizing productivity over image quality - When color displacement correction fails even though there is sufficient toner remains 1) Select the item, and then press Yes key. 2) Turn OFF/ON the main power switch. 3) Execute print color displacement correction. - Do not turn OFF/ON the power before "Executing" disappears Be sure to perform print color displacement correction after turning OFF/ON the power. Adjustment/Maintenance> Adjust Image Quality> Correct Print Color Mismatch
Use Case Adj/Set/Operate Method Caution Additional Functions Mode SPL71100	If shortage of toner occurs while [Continue Printing (Quality Not Guaranteed)] is selected by the user, color displacement correction cannot be executed. If color displacement correction cannot be executed while 1 is set, printing is continued based or the setting at the time of factory shipment. When 1 is set in the case that color displacement correction fails after replacement of the cartridge the correction may succeed. - When prioritizing productivity over image quality - When color displacement correction fails even though there is sufficient toner remains 1) Select the item, and then press Yes key. 2) Turn OFF/ON the main power switch. 3) Execute print color displacement correction. - Do not turn OFF/ON the power before "Executing" disappears. - Be sure to perform print color displacement correction after turning OFF/ON the power. Adjustment/Maintenance> Adjust Image Quality> Correct Print Color Mismatch Setting of the duty of Off-hook PCB This is the mode to make handsets of particular manufacturers to ring when fax reception mode
Use Case Adj/Set/Operate Method Caution Additional Functions Mode SPL71100 Detail	If shortage of toner occurs while [Continue Printing (Quality Not Guaranteed)] is selected by the user, color displacement correction cannot be executed. If color displacement correction cannot be executed while 1 is set, printing is continued based or the setting at the time of factory shipment. When 1 is set in the case that color displacement correction fails after replacement of the cartridge the correction may succeed. - When prioritizing productivity over image quality - When color displacement correction fails even though there is sufficient toner remains 1) Select the item, and then press Yes key. 2) Turn OFF/ON the main power switch. 3) Execute print color displacement correction. - Do not turn OFF/ON the power before "Executing" disappears. - Be sure to perform print color displacement correction after turning OFF/ON the power. Adjustment/Maintenance> Adjust Image Quality> Correct Print Color Mismatch Setting of the duty of Off-hook PCB 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 Adj/Set/Operate Method Caution Additional Functions Mode SPL71100 Detail Use Case	If shortage of toner occurs while [Continue Printing (Quality Not Guaranteed)] is selected by the user, color displacement correction cannot be executed. If color displacement correction cannot be executed while 1 is set, printing is continued based or the setting at the time of factory shipment. When 1 is set in the case that color displacement correction fails after replacement of the cartridge the correction may succeed. - When prioritizing productivity over image quality - When color displacement correction fails even though there is sufficient toner remains 1) Select the item, and then press Yes key. 2) Turn OFF/ON the main power switch. 3) Execute print color displacement correction Do not turn OFF/ON the power before "Executing" disappears Be sure to perform print color displacement correction after turning OFF/ON the power. Adjustment/Maintenance> Adjust Image Quality> Correct Print Color Mismatch Setting of the duty of Off-hook PCB This is the mode to make handsets of particular manufacturers to ring when fax reception mode is set to "Fax / Tel (Auto Switch)". When making the handsets of particular manufacturers to ring at the time of switching Fax/Tel 1) Enter the setting value, and then press Apply key.
Use Case Adj/Set/Operate Method Caution Additional Functions Mode SPL71100 Detail Use Case Adj/Set/Operate Method	If shortage of toner occurs while [Continue Printing (Quality Not Guaranteed)] is selected by the user, color displacement correction cannot be executed. If color displacement correction cannot be executed while 1 is set, printing is continued based or the setting at the time of factory shipment. When 1 is set in the case that color displacement correction fails after replacement of the cartridge the correction may succeed. - When prioritizing productivity over image quality - When color displacement correction fails even though there is sufficient toner remains 1) Select the item, and then press Yes key. 2) Turn OFF/ON the main power switch. 3) Execute print color displacement correction Do not turn OFF/ON the power before "Executing" disappears Be sure to perform print color displacement correction after turning OFF/ON the power. Adjustment/Maintenance> Adjust Image Quality> Correct Print Color Mismatch Setting of the duty of Off-hook PCB This is the mode to make handsets of particular manufacturers to ring when fax reception mode is set to "Fax / Tel (Auto Switch)". When making the handsets of particular manufacturers to ring at the time of switching Fax/Tel 1) Enter the setting value, and then press Apply key. 2) Turn OFF/ON the main power switch.

COPIER (Service mode for c	
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	Enter the setting value, and then press Apply key. 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
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	Enter the setting value, and then press Apply key. 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	·
SPL32620 Detail	UGW (Universal Gate Way): Remote monitoring service system
	UGW (Universal Gate Way): Remote monitoring service system ON/OFF of PC-less update function
Detail	UGW (Universal Gate Way): Remote monitoring service system ON/OFF of PC-less update function To set whether to disable the PC-less update function. 1) Enter the setting value, and then press Apply key.
Detail Adj/Set/Operate Method	UGW (Universal Gate Way): Remote monitoring service system ON/OFF of PC-less update function To set whether to disable the PC-less update function. 1) Enter the setting value, and then press Apply key. 2) Turn OFF / ON the main power switch. When LCDSFLG is 1, the setting of this item is disabled (the PC-less update function is turned
Detail Adj/Set/Operate Method Caution	UGW (Universal Gate Way): Remote monitoring service system ON/OFF of PC-less update function To set whether to disable the PC-less update function. 1) Enter the setting value, and then press Apply key. 2) Turn OFF / ON the main power switch. When LCDSFLG is 1, the setting of this item is disabled (the PC-less update function is turned OFF). O to 1
Detail Adj/Set/Operate Method Caution Display/Adj/Set Range	UGW (Universal Gate Way): Remote monitoring service system ON/OFF of PC-less update function To set whether to disable the PC-less update function. 1) Enter the setting value, and then press Apply key. 2) Turn OFF / ON the main power switch. When LCDSFLG is 1, the setting of this item is disabled (the PC-less update function is turned OFF). 0 to 1 0: OFF, 1: ON

COPIER (Service mode for o	copier) > FUNCTION (Operation / inspection mode) > SPLMAN
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	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: Display 1: Hide
SPL71700	Writing sublog to USB flash drive
Detail	To write the sublog stored in the eMMC PCB to the USB flash drive.
Use Case	When analyzing the cause of a problem
Adj/Set/Operate Method	Select the item, and then press Yes key.
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	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	1
Related Service Mode	COPIER> OPTION> BODY> RMT-SW
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

■ VIFFNC

COPIER (Service mode for c	opier) > Function (Operation / Inspection mode) > VIFFING
SMEAR-PV	ON/OFF of image smear prevention mode
Detail	To set whether to execute the image smear prevention mode. Depending on the paper type or environment (especially in a high humidity environment), thin line or fine halftone may become lighter
Use Case	When thin line or fine halftone becomes lighter
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
FEED-IMP	ON/OFF of pickup jam reduction mode
Detail	To set whether to execute the pickup jam reduction mode. When using paper with which double feed is more likely to occur, pickup operation cannot be performed at the appropriate timing because of double feed. As a result of that, pickup delay jam may occur. In such cases, the pickup interval is extended by setting 1. As a result of that, jam occurrence can be reduced, but productivity is decreased.
Use Case	When pickup jam occurs with paper with which double feed is more likely to occur
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Caution	Be sure to get approval from the user by telling that the productivity decreases to prevent jam occurrence.
Display/Adj/Set Range	0 to 1 0: OFF, 1: ON
Default Value	0
FOG-PV	ON/OFF of image fogging prevention mode
Detail	To set whether to execute the image fogging prevention mode. Set 1 when fogging which looks like fine vertical lines appears. Execute the image fogging prevention mode.
Use Case	When fogging which looks like fine vertical lines occurs
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
ICL-IMP	ON/OFF ITB clean failure alleviate mode
Detail	To set whether to execute ITB cleaning failure alleviation mode. An image that was on 2 sheets before may appear lightly depending on paper type and image ratio (in case of high image ratio). In such a case, set 1 to execute process to alleviate ITB cleaning failure.
Use Case	When an image failure (ghosting of an image on the 2 sheets before) occurs
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
FD-R-CHG	Not use

STOR-DCN	Backup of Engine Controller PCB NVRAM
Detail	To back up the setting information in NVRAM of the Engine Controller PCB to NVRAM of the Main Controller PCB.
Use Case	Before replacing the Engine Controller PCB
Adj/Set/Operate Method	Select the item, and then press Yes key.
Caution	During operation, the setting information changes by manual or automatic adjustment. When backup data which has been left for a long period of time is restored, it is overwritten with the old setting information and the new information is deleted.
Related Service Mode	COPIER> FUNCTION> SYSTEM> RSTR-DCN
RSTR-DCN	Restoration of Engine Controller PCB NVRAM
Detail	To restore the setting information which has been backed up to NVRAM of the Main Controller PCB to the NVRAM of the Engine Controller PCB.
Use Case	After replacing the Engine Controller PCB
Adj/Set/Operate Method	1) Select the item, and then press Yes key. 2) Turn OFF/ON the main power switch.
Caution	During operation, the setting information changes by manual or automatic adjustment. When backup data which has been left for a long period of time is restored, it is overwritten with the old setting information and the new information is deleted.
Related Service Mode	COPIER> FUNCTION> SYSTEM> STOR-DCN



OPTION (Specification setting mode)

BODY

•	· · · · · · · · · · · · · · · · · · ·
DFDST-L1	Adj img crrct level: stream read, front
Detail	To adjust the level of dust detection that is executed between originals in the Scanner Unit (for front 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	- When black line occurs due to dust - 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 dus 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.

COFIER (Service mode for c	opier) > OP HON (Specification setting mode) > BODY
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

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
MIBCOUNT	Not use
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.

COT IET (COT VICE THOSE FOR C	opier) > OP HON (Specification setting mode) > BODY
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.
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	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 : Shift is available. 1 : Shift is not available.
Default Value	0
Default Value SDTM-DSP	ON/OFF of auto shutdown shift time dspl
SDTM-DSP	ON/OFF of auto shutdown shift time dspl To set whether to display [Auto Shutdown Time] in [Menu].
SDTM-DSP Detail	ON/OFF of auto shutdown shift time dspl To set whether to display [Auto Shutdown Time] in [Menu]. The setting is enabled only for the model with automatic shutdown function.
SDTM-DSP Detail Use Case	ON/OFF of auto shutdown shift time dspl To set whether to display [Auto Shutdown Time] in [Menu]. The setting is enabled only for the model with automatic shutdown function. When switching to display or hide the items related to auto shutdown Enter the setting value, and then press Apply key.
SDTM-DSP Detail Use Case Adj/Set/Operate Method	ON/OFF of auto shutdown shift time dspl To set whether to display [Auto Shutdown Time] in [Menu]. The setting is enabled only for the model with automatic shutdown function. When switching to display or hide the items related to auto shutdown Enter the setting value, and then press Apply key.
SDTM-DSP Detail Use Case Adj/Set/Operate Method Caution	ON/OFF of auto shutdown shift time dspl To set whether to display [Auto Shutdown Time] in [Menu]. The setting is enabled only for the model with automatic shutdown function. When switching to display or hide the items related to auto shutdown Enter the setting value, and then press Apply key. For the model without automatic shutdown function, the setting is disabled even if it is configured. 0 to 1 0: OFF
SDTM-DSP Detail Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range	ON/OFF of auto shutdown shift time dspl To set whether to display [Auto Shutdown Time] in [Menu]. The setting is enabled only for the model with automatic shutdown function. When switching to display or hide the items related to auto shutdown Enter the setting value, and then press Apply key. For the model without automatic shutdown function, the setting is disabled even if it is configured. 0 to 1 0: OFF 1: ON
Detail Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range Default Value Additional Functions	ON/OFF of auto shutdown shift time dspl To set whether to display [Auto Shutdown Time] in [Menu]. The setting is enabled only for the model with automatic shutdown function. When switching to display or hide the items related to auto shutdown Enter the setting value, and then press Apply key. For the model without automatic shutdown function, the setting is disabled even if it is configured. 0 to 1 0: OFF 1: ON It differs according to the location.
Detail Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range Default Value Additional Functions Mode	ON/OFF of auto shutdown shift time dspl To set whether to display [Auto Shutdown Time] in [Menu]. The setting is enabled only for the model with automatic shutdown function. When switching to display or hide the items related to auto shutdown Enter the setting value, and then press Apply key. For the model without automatic shutdown function, the setting is disabled even if it is configured. 0 to 1 0: OFF 1: ON It differs according to the location. Preferences> Timer/Energy Settings> Auto Shutdown Time
Detail Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range Default Value Additional Functions Mode RMT-SW	ON/OFF of auto shutdown shift time dspl To set whether to display [Auto Shutdown Time] in [Menu]. The setting is enabled only for the model with automatic shutdown function. When switching to display or hide the items related to auto shutdown Enter the setting value, and then press Apply key. For the model without automatic shutdown function, the setting is disabled even if it is configured. 0 to 1 0: OFF 1: ON It differs according to the location. Preferences> Timer/Energy Settings> Auto Shutdown Time ON/OFF of remote UI service mode
Detail Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range Default Value Additional Functions Mode RMT-SW Detail	ON/OFF of auto shutdown shift time dspl To set whether to display [Auto Shutdown Time] in [Menu]. The setting is enabled only for the model with automatic shutdown function. When switching to display or hide the items related to auto shutdown Enter the setting value, and then press Apply key. For the model without automatic shutdown function, the setting is disabled even if it is configured. 0 to 1 0: OFF 1: ON It differs according to the location. Preferences> Timer/Energy Settings> Auto Shutdown Time ON/OFF of remote UI service mode To set whether to allow using service mode on remote UI.
Detail Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range Default Value Additional Functions Mode RMT-SW Detail Use Case	ON/OFF of auto shutdown shift time dspl To set whether to display [Auto Shutdown Time] in [Menu]. The setting is enabled only for the model with automatic shutdown function. When switching to display or hide the items related to auto shutdown Enter the setting value, and then press Apply key. For the model without automatic shutdown function, the setting is disabled even if it is configured. 0 to 1 0: OFF 1: ON It differs according to the location. Preferences> Timer/Energy Settings> Auto Shutdown Time ON/OFF of remote UI service mode To set whether to allow using service mode on remote UI. When using service mode on remote UI 1) Enter the setting value, and then press Apply key.

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	Upon request from the user who concerns security
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: No password 1: Service technician 2: System administrator + service technician
Default Value	0
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

IMCCNTDD	Catting of image available made
IMGCNTPR	Setting of image quality mode
Detail	To set the image quality mode.
	When 0 is set, "image quality priority mode" is applied. When 1 is set, "counter priority mode" is applied. When 2 is set, "image quality priority (photo) mode" is applied.
Use Case	Upon user's request
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 2
	0: Image quality priority mode
	1: Counter priority mode
	2: Image quality priority (photo) mode
Default Value	1
LCDSFLG	Enabling of local CDS server
LCDSFLG Detail	Enabling of local CDS server To set whether to use the local CDS server.
	-
Detail	To set whether to use the local CDS server.
Detail Use Case	To set whether to use the local CDS server. When using the local CDS server
Detail Use Case Adj/Set/Operate Method	To set whether to use the local CDS server. When using the local CDS server Enter the setting value, and then press Apply key.
Detail Use Case Adj/Set/Operate Method	To set whether to use the local CDS server. When using the local CDS server Enter the setting value, and then press Apply key. 0 to 1
Detail Use Case Adj/Set/Operate Method	To set whether to use the local CDS server. When using the local CDS server Enter the setting value, and then press Apply key. 0 to 1 0: Disabled
Detail Use Case Adj/Set/Operate Method Display/Adj/Set Range	To set whether to use the local CDS server. When using the local CDS server Enter the setting value, and then press Apply key. 0 to 1 0: Disabled 1: Enabled

COPIER (Service mode for c	copier) > OPTION (Specification setting mode) > FNC-SW
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 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
CRGLF-CL	Set replacement ref VL(Y/M/C):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 Y/M/C-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

■ DSPLY-SW

 ${\sf COPIER} \ ({\sf Service} \ {\sf mode} \ {\sf for} \ {\sf copier}) > {\sf OPTION} \ ({\sf Specification} \ {\sf setting} \ {\sf mode}) > {\sf DSPLY-SW}$

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.

■ IMG-MCON

COPIER (Service mode for copier) > OPTION (Specification setting mode) > IMG-MCON

TMIC-BK	TMIC Bk PASCAL gamma LUT end edge crrct
Detail	To set whether to perform the trailing edge correction of Bk-color PASCAL gamma LUT used by TMIC. When 1 is set, the trailing edge correction is not performed so that density of the high density area becomes high. Consequently, texts and thin lines become clear; however, gradation of photos may become unnatural. When 0 is set, density of the high density area becomes low by the trailing edge correction. Consequently, gradation of photos is improved, but thin lines may be partly missing or texts may be faded.
Use Case	When gradation of photos become unnaturalWhen thin lines are partly missing or characters are faded
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
Supplement/Memo	TMIC: Error diffusion correction of photo/high image quality.
TMIC-CMY	TMIC Y/M/C PASCAL gamma LUT end correct
TMIC-CMY Detail	TMIC Y/M/C PASCAL gamma LUT end correct To set whether to perform the trailing edge correction of Y/M/C-color PASCAL gamma LUT used by TMIC. When 1 is set, the trailing edge correction is not performed so that density of the high density area becomes high. Consequently, texts and thin lines become clear; however, gradation of photos may become unnatural. When 0 is set, density of the high density area becomes low by the trailing edge correction. Consequently, gradation of photos is improved, but thin lines may be partly missing or texts may be faded.
	To set whether to perform the trailing edge correction of Y/M/C-color PASCAL gamma LUT used by TMIC. When 1 is set, the trailing edge correction is not performed so that density of the high density area becomes high. Consequently, texts and thin lines become clear; however, gradation of photos may become unnatural. When 0 is set, density of the high density area becomes low by the trailing edge correction. Consequently, gradation of photos is improved, but thin lines may be partly missing or texts may
Detail	To set whether to perform the trailing edge correction of Y/M/C-color PASCAL gamma LUT used by TMIC. When 1 is set, the trailing edge correction is not performed so that density of the high density area becomes high. Consequently, texts and thin lines become clear; however, gradation of photos may become unnatural. When 0 is set, density of the high density area becomes low by the trailing edge correction. Consequently, gradation of photos is improved, but thin lines may be partly missing or texts may be faded. - When gradation of photos become unnatural
Detail Use Case	To set whether to perform the trailing edge correction of Y/M/C-color PASCAL gamma LUT used by TMIC. When 1 is set, the trailing edge correction is not performed so that density of the high density area becomes high. Consequently, texts and thin lines become clear; however, gradation of photos may become unnatural. When 0 is set, density of the high density area becomes low by the trailing edge correction. Consequently, gradation of photos is improved, but thin lines may be partly missing or texts may be faded. - When gradation of photos become unnatural - When thin lines are partly missing or characters are faded
Detail Use Case Adj/Set/Operate Method	To set whether to perform the trailing edge correction of Y/M/C-color PASCAL gamma LUT used by TMIC. When 1 is set, the trailing edge correction is not performed so that density of the high density area becomes high. Consequently, texts and thin lines become clear; however, gradation of photos may become unnatural. When 0 is set, density of the high density area becomes low by the trailing edge correction. Consequently, gradation of photos is improved, but thin lines may be partly missing or texts may be faded. - When gradation of photos become unnatural - When thin lines are partly missing or characters are faded Enter the setting value, and then press Apply key. 0 to 1

■ 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.

COPIER (Service mode for copier) > OPTION (Specification setting mode) > USER		
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	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.	
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	 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.	
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	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.	
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
	To set default display items of the charge counter on the Counter Check screen.
Detail	For details of each type, refer to the Service Manual.
Use Case	Upon user'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 3
	0: Type1
	1: Type2 2: Type3
	3: Type4
Default Value	0
CTCHKDSP	ON/OFF of charge counter list output
Detail	To set whether to print the charge counter in the system management data list.
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: ON, 1: OFF
Default Value	1
Additional Functions Mode	Output Report > Print List > System Manager Data List
PS-MODE	Setting of compatible mode at PS usage
Detail	To set the image processing at PS print. Set 8 when line width differs depending on the drawing position although the same line width is set. 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	Enter the setting value, and then press Apply key. Turn OFF/ON the main power switch.
Display/Adj/Set Range	0 to 63 4: Compatible with EFI at PS 2-sided delivery
	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
Detail	To set whether to export "service mode data" from remote UI. When 1 is set, "service mode data" is displayed as the target data of export on remote UI. When installing more than 1 machine at the same time, the same service mode data can be registered
Use Case	When installing more than 1 machine at the same time
Adj/Set/Operate Method	1) Enter the setting value, and then press 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
Supplement/Memo	If selecting "service mode data" as the target data of export on remote UI after setting SMD-EXPT

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.
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.
Display/Adj/Set Range	0 to 1 0: Not shifted 1: 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

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.

■ SERIAL

COPIER (Service mode for copier) > OPTION (Specification setting mode) > SERIAL

SN-MAIN	Registration of serial number
Detail	To write the serial number of this machine in the Main Controller PCB. When this item is executed, the 1-byte alphanumeric characters entered in [Location] in [Settings/Registration] are written in the Main Controller PCB. When replacing the Main Controller PCB, be sure to write the serial number in the new PBC to prepare for trouble since the serial number of the device is not succeeded.
Use Case	When replacing the Main Controller PCB
Adj/Set/Operate Method	1) Write down the current data in [Location].
	2) Turn OFF the main power switch.
	3) Replace the Main Controller PCB.
	4) Turn ON the main power switch.
	5) Enter the serial number of the machine in [Location].
	6) Execute this item.
	7) Turn OFF/ON the main power switch.
	After the serial number of this machine is written in the Main Controller PCB, data in [Location] is deleted.
	8) Output the spec report by SPEC, and check that the entered serial number is registered.9) Enter the data backed up in step 1 in [Location].
Caution	Since the above "Location" is only temporarily used to store data, back up the data before input and enter it again after writing is completed.
Related Service Mode	COPIER> FUNCTION> MISC-P> SPEC
Additional Functions Mode	System Settings> Device Information> Location



COUNTER (Counter mode)

■ TOTAL

COPIER (Service mode for copier) > 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 copier) > COUNTER (Counter mode) > TOTAL

COPIER (Service mode for c	opier) > 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 copier) > COUNTER (Counter mode) > TOTAL

MD-PRT	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
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 copier) > 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
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.
Adj/Set/Operate Method	N/A (Display only)
Display/Adj/Set Range	0 to 99999999
Unit	1 sheet
Default Value	0
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.
Adj/Set/Operate Method	N/A (Display only)
Display/Adj/Set Range	0 to 99999999
Unit	1 sheet
Default Value	0

COPIER (Service mode for copier) > COUNTER (Counter mode) > PICK-UP

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 copier) > COUNTER (Counter mode) > FEEDER

FEED	DADF original pickup total counter
Detail	To count up the number of originals picked up from the DADF regardless of the size.
Use Case	When checking the total counter of original pickup by DADF
Adj/Set/Operate Method	N/A (Display only)
Display/Adj/Set Range	0 to 99999999
Unit	1 sheet
Default Value	0

■ JAM

COPIER (Service mode for copier) > 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	DADF jam counter
Detail	To count up the number of jam occurrences in the DADF.
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
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

COPIER (Service mode for copier) > COUNTER (Counter mode) > JAM

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		

■ DRBL-2

COPIER (Service mode for o	opier) > COUNTER (Counter mode) > DRBL-2
DF-SP-PD	Display/clear DADF Sprtn Pad prts cntr
Detail	To display the total counter value from the previous replacement of the DADF Separation Pad. The number of fed sheets is counted, and the counter is advanced by 1 for paper whose length is 324 mm or less and by 2 for paper whose length is more than 324 mm. When 0 is set, the parts counter is cleared.
Use Case	When checking the consumption level of parts/replacing the partsWhen clearing the counter value after replacement
Adj/Set/Operate Method	To clear the counter value: Enter 0, and then press Apply key.
Display/Adj/Set Range 0 to 99999999	
Unit	1 sheet
Default Value	0
DF-SP-RL	Display/clear DADF Sprtn Roll prts cntr
DF-SP-RL Detail	Display/clear DADF Sprtn Roll prts cntr To display the total counter value from the previous replacement of the DADF Separation Roller. The number of fed sheets is counted, and the counter is advanced by 1 for paper whose length is 324 mm or less and by 2 for paper whose length is more than 324 mm. When 0 is set, the parts counter is cleared.
	To display the total counter value from the previous replacement of the DADF Separation Roller. The number of fed sheets is counted, and the counter is advanced by 1 for paper whose length is 324 mm or less and by 2 for paper whose length is more than 324 mm.
Detail	To display the total counter value from the previous replacement of the DADF Separation Roller. The number of fed sheets is counted, and the counter is advanced by 1 for paper whose length is 324 mm or less and by 2 for paper whose length is more than 324 mm. When 0 is set, the parts counter is cleared. When checking the consumption level of parts/replacing the parts
Detail Use Case	To display the total counter value from the previous replacement of the DADF Separation Roller. The number of fed sheets is counted, and the counter is advanced by 1 for paper whose length is 324 mm or less and by 2 for paper whose length is more than 324 mm. When 0 is set, the parts counter is cleared. - When checking the consumption level of parts/replacing the parts - When clearing the counter value after replacement
Detail Use Case Adj/Set/Operate Method	To display the total counter value from the previous replacement of the DADF Separation Roller. The number of fed sheets is counted, and the counter is advanced by 1 for paper whose length is 324 mm or less and by 2 for paper whose length is more than 324 mm. When 0 is set, the parts counter is cleared. When checking the consumption level of parts/replacing the parts When clearing the counter value after replacement To clear the counter value: Enter 0, and then press Apply key.

FEEDER (ADF service mode)



ADJUST (Adjustment mode)

FEEDER (ADF service mode) > ADJUST (Adjustment mode)

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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 DADF 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 DADF - 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			
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 DADF - 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		
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 DADF 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 DADF - 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		

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 DADF - 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 ke	
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	At operation check	
Adj/Set/Operate Method	Select the item, and then press Yes key. 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 DADF individual feed	
Detail	To start operation check of the feed mode specified by FEED-CHK.	
Use Case	At operation check	
Adj/Set/Operate Method	Select the item, and then press Yes key.	
Related Service Mode	FEEDER> FUNCTION> FEED-CHK	
FEED-CHK	Specify DADF individual feed operation	
Detail	To specify the feed mode for DADF. Feed operation is activated by FEED-ON.	
Use Case	At operation check	
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.	
Display/Adj/Set Range	0 to 1	
Display/Auj/Oet Range	0: 1-sided	
	1: 2-sided	
Default Value	0	
Related Service Mode	FEEDER> FUNCTION> FEED-ON	
Supplement/Memo	In the case of DADF (1-path model), operation is the same when either value is set.	

FAX (FAX service mode)

0

SSSW (Bit switch registration mode)

SSSW No.	Bit No.	Function	
SW 01 (Switch relating to error and copy)		(Switch relating to error and copy)	
	Bit 0	Output of error code for service technician	
	Bit 1	Error memory dump	
SW 02 (Switch		(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		(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	T	
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	
SW 19		Not in use	
SW 20		Not in use	
SW 21	B" *	Not in use	
SW 22	Bit 3	Prohibition of manual polling operation	
SW 23		Not in use	

SSSW No.	Bit No.	Function	
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		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 %

No.	Parameter	Allowable setting range
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	Pulse digit format	0: DP (N)
		1: DP (N+1)
		2: DP (10-N)
001	Not in use	
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 No.	Function	1	0
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
800	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

Parameter No.	Function	Setting range
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	At direct connecting to an-	CNG MIN ON time	0 to 9,999 (x 10 msec)
800	swering phone	CNG MAX ON time	0 to 9,999 (x 10 msec)
009		Tolerable time of instantaneous inter- ruption	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)

PG-TYPE	Satting of BC number		
	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.		
Display/Adj/Set Range	0 to 26		
	0 to 1: For R&D use		
	2: Color chart		
	3: For R&D use		
	4: Rainbow chart (vertical scanning direction, A4) 5: Rainbow chart (horizontal scanning direction, A4)		
	6: Color grid (A4)		
	7: Rainbow chart (vertical scanning direction, LTR/LGL)		
	8: Rainbow chart (vertical scanning direction, LTR/LGL)		
	9: Color grid (LTR/LGL)		
	10: 16 gradations		
	11: 17 gradations of Y/M/C/Bk/R/G/B		
	12: Halftone		
	13: For checking ghost due to transfer failure		
	14: For checking the density patch		
	15: For checking transfer		
	20: For R&D use 21: For checking developing performance (white spots)		
	22: For checking resolution		
	23: For checking handing image		
	24: 4 colors (landscape)		
	25: 4 colors (portrait)		
	26: For calibrating color difference between the front and back sides with DADF (1-path model)		
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		

,	or test print, operation check, etc.) > PRINT (Print test mode)		
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 3 0: T-MIC 1: High screen ruling (SCA) 2: Low screen ruling (SCB) 3: TBIC		
Default Value	0		
Related Service Mode	TESTMODE> PRINT> PG-TYPE		
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. When 2 is set, the high density area of Bk-color is printed darker.		
Use Case	At trouble analysis		
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.		
Display/Adj/Set Range	0 to 2 0: Normal gamma LUT 1: Through (linear) gamma LUT 2: With trailing edge correction of Bk-color		
Default Value	0		
Supplement/Memo	Gamma LUT: Density gradation characteristic table		
NRKE	ON/OFF of laser scanning transfer process of test print		
Detail	To set whether to perform line transfer process for skew correction of laser scanning at test print		
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: OFF 1: ON		
Default Value	0		
Supplement/Memo	Transfer process: A process to correct skew of laser scanning toward vertical scanning direction		
BLND	ON/OFF of interpolation process at test print		
Detail	To set whether to perform interpolation process at test print. When 1 is set, interpolation process is performed (no phase shift).		
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: OFF 1: ON		
Default Value	0		
Supplement/Memo	Interpolation process: A process to predict, for pixels holding no color information, color based on the surrounding pixels, and then set up the color information.		

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DENS-Y	Adj of Y-color density at test print		
Detail	To adjust Y-color density when performing test print . As the value is larger, the image gets darker.		
Use Case	At test print		
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.		
Display/Adj/Set Range	0 to 255		
Default Value	128		
Related Service Mode	TESTMODE> PRINT> PG-TYPE		
DENS-M	Adj of M-color density at test print		
Detail	To adjust M-color density when performing test print . As the value is larger, the image gets darker.		
Use Case	At test print		
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.		
Display/Adj/Set Range	0 to 255		
Default Value	128		
Related Service Mode	TESTMODE> PRINT> PG-TYPE		
DENS-C	Adj of C-color density at test print		
Detail	To adjust C-color density when performing test print . As the value is larger, the image gets darker.		
Use Case	At test print		
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.		
Display/Adj/Set Range	0 to 255		
Default Value	128		
Related Service Mode	TESTMODE> PRINT> PG-TYPE		
DENS-K	Adj of Bk-color density at test print		
Detail	To adjust Bk-color density when performing test print . As the value is larger, the image gets darker.		
Use Case	At test print		
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.		
Display/Adj/Set Range	0 to 255		
Default Value	128		
Related Service Mode	TESTMODE> PRINT> PG-TYPE		
SW-Y	ON/OFF of Y-color output at test print		
Detail	To set whether to output Y-color at the time of test print .		
Use Case	At test print		
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		
Related Service Mode	TESTMODE> PRINT> PG-TYPE		
SW-M	ON/OFF of M-color output at test print		
Detail	To set whether to output M-color at the time of test print .		
Use Case	At test print		
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		

0 0 (0 0 0 0	for test print, operation check, etc.) > PRINT (Print test mode)	
SW-C	ON/OFF of C-color output at test print	
Detail	To set whether to output C-color at the time of test print .	
Use Case	At test print	
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	
SW-K	ON/OFF of Bk-color output at test print	
Detail	To set whether to output Bk-color at the time of test print .	
Use Case	At test print	
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	
MONOMODE	ON/OFF of black mode at test print	
Detail	To set whether to enable black mode at the time of test print.	
Use Case	At test print	
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	
Default Value	0 Setting of paper source at test print	
FEED	Setting of paper source at test print 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	
FEED Detail	Setting of paper source at test print 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).	
FEED Detail Use Case	Setting of paper source at test print 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). At trouble analysis	
FEED Detail Use Case Adj/Set/Operate Method	Setting of paper source at test print 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). At trouble analysis Enter the setting value, and then press Apply key. In case of using the Multi-purpose Tray, be sure to place paper on the tray before executing this	
PEED Detail Use Case Adj/Set/Operate Method Caution	Setting of paper source at test print 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). At trouble analysis Enter the setting value, and then press Apply key. In case of using the Multi-purpose Tray, be sure to place paper on the tray before executing this item. 0 to 4 0: Multi-purpose Tray 1: Cassette 1 2: Cassette 2 3: Cassette 3	
Detail Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range	Setting of paper source at test print 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). At trouble analysis Enter the setting value, and then press Apply key. In case of using the Multi-purpose Tray, be sure to place paper on the tray before executing this item. 0 to 4 0: Multi-purpose Tray 1: Cassette 1 2: Cassette 2 3: Cassette 3 4: Cassette 4	
Detail Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range	Setting of paper source at test print 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). At trouble analysis Enter the setting value, and then press Apply key. In case of using the Multi-purpose Tray, be sure to place paper on the tray before executing this item. 0 to 4 0: Multi-purpose Tray 1: Cassette 1 2: Cassette 2 3: Cassette 3 4: Cassette 4	
Detail Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range Default Value	Setting of paper source at test print 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). At trouble analysis Enter the setting value, and then press Apply key. In case of using the Multi-purpose Tray, be sure to place paper on the tray before executing this item. 0 to 4 0: Multi-purpose Tray 1: Cassette 1 2: Cassette 2 3: Cassette 3 4: Cassette 4 1 Output of test print	
Detail Use Case Adj/Set/Operate Method Caution Display/Adj/Set Range Default Value START Detail	Setting of paper source at test print 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). At trouble analysis Enter the setting value, and then press Apply key. In case of using the Multi-purpose Tray, be sure to place paper on the tray before executing this item. 0 to 4 0: Multi-purpose Tray 1: Cassette 1 2: Cassette 2 3: Cassette 3 4: Cassette 4 1 Output of test print To output a test print with the PG pattern set in PG-TYPE, MODE, etc.	



■ 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.	
	- <u></u>	
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.	
Use Case	When analyzing the cause of a problem	
Adj/Set/Operate Method	Enter the setting value, and then press Apply key.	
Adj/Set/Operate Method Caution	Enter the setting value, and then press Apply key. Be sure to set the value back to 0 after the test.	
Caution	Be sure to set the value back to 0 after the test. 0 to 7 0: All OFF	
Caution	Be sure to set the value back to 0 after the test. 0 to 7 0: All OFF 1: CIST2 ON/OFF	
Caution	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	
Caution	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	
Caution	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	
Caution	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	
Caution	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	
Caution	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	
Caution Display/Adj/Set Range	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 7: IPSEL2 ON/OFF	

TESTMODE (Service mode for test print, operation check, etc.) > FAX (FAX test mode) > MODEM

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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

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.	
Caution 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 08: 19200 bps 09: 21600 bps 10: 24000 bps 11: 26400 bps 12: 28800 bps 13: 31200 bps 14: 33600 bps	

■ FACULT

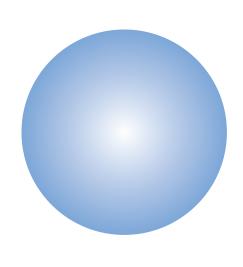
Default Value 0

TESTMODE (Service mode for test print, operation check, etc.) > FAX (FAX test mode) > FACULT

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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 b 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	0	

TESTMODE (Service mode for test print, operation check, etc.) > FAX (FAX test mode) > FACULT

TEOTINODE (OCIVICE IIIOGE	tor test print, operation check, etc.) > FAX (FAX test mode) > FACOLT	
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.	



APPENDICES

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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.

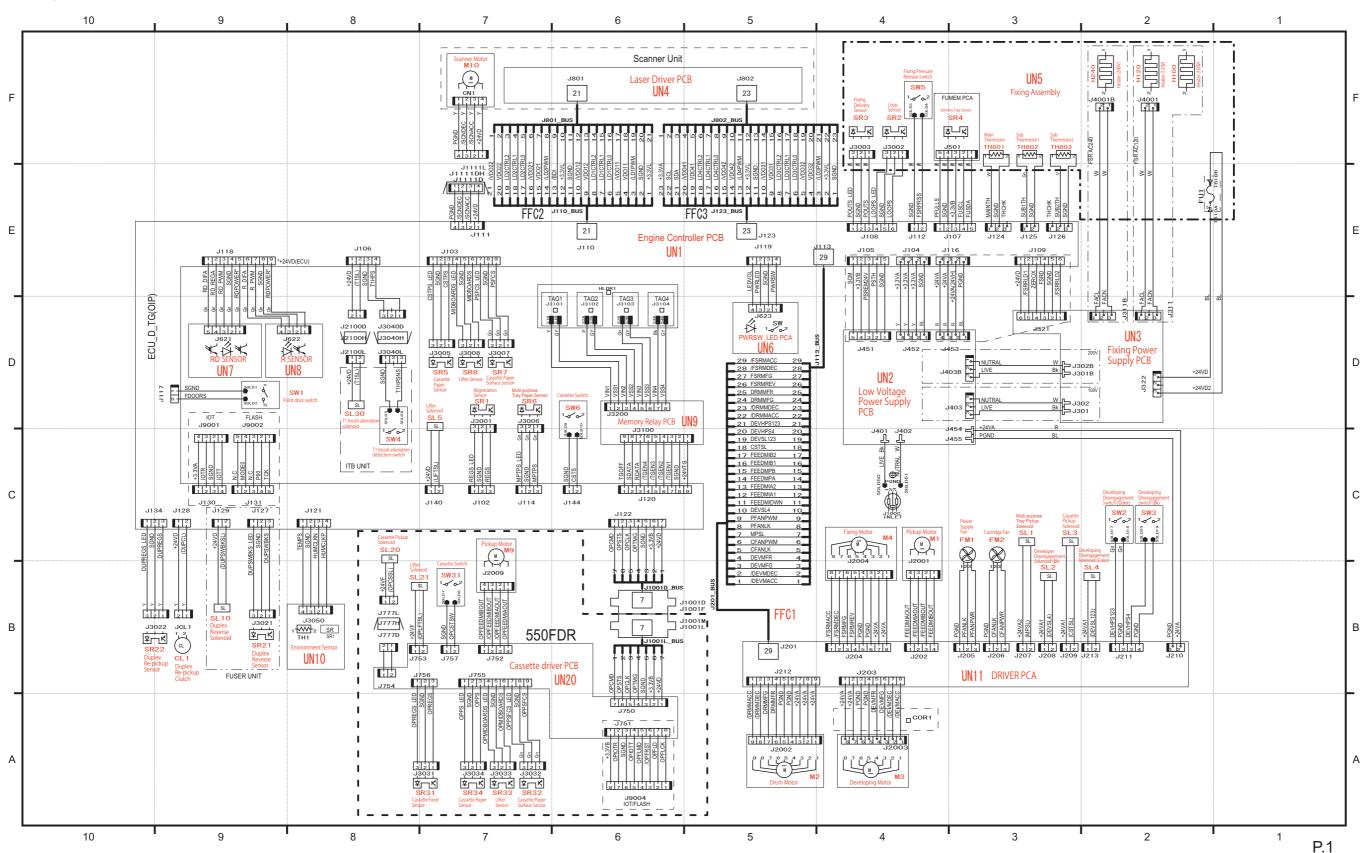


Solvents and Oil List

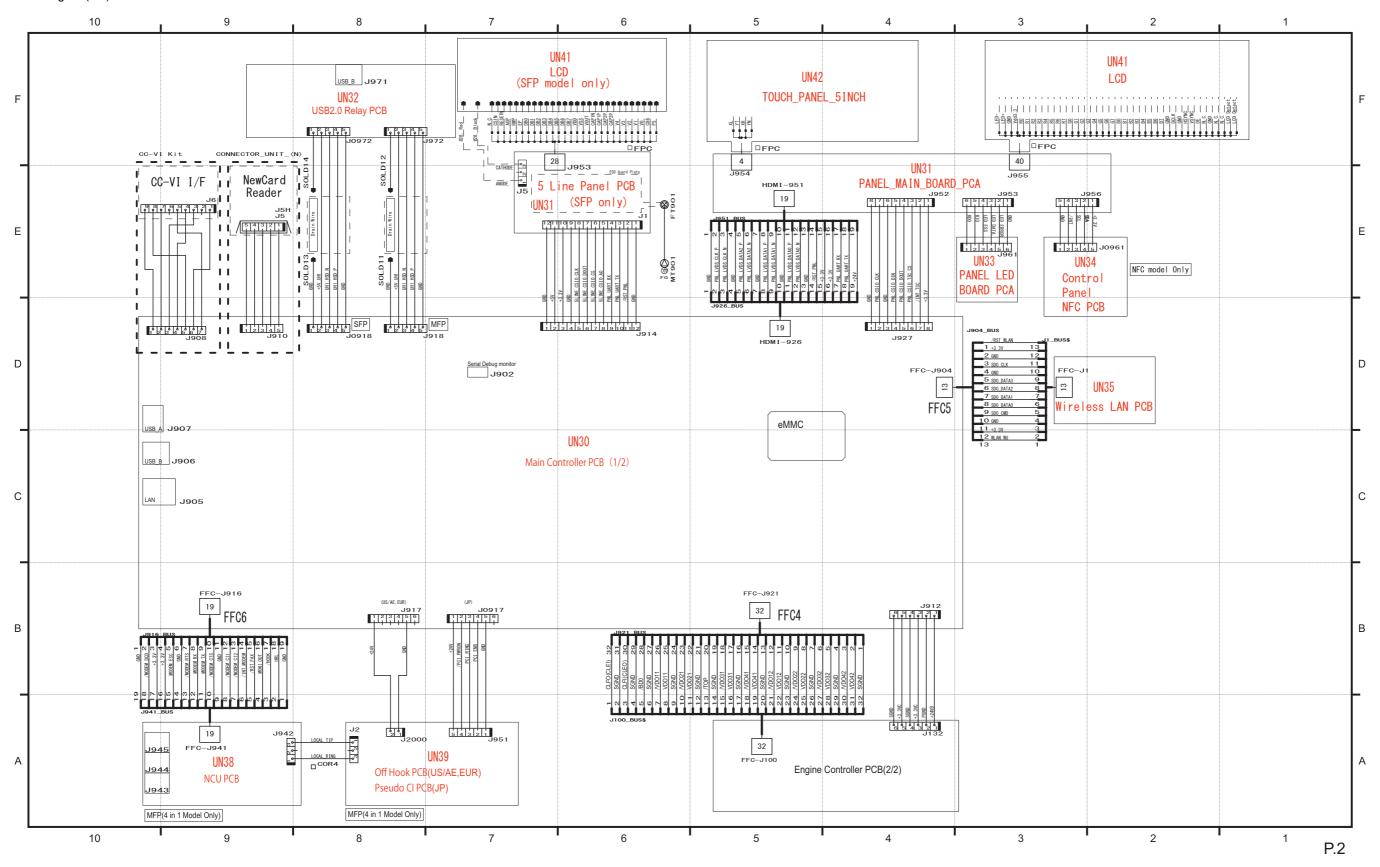
No.	Туре	Purpose	Remark
1	Ethyl alcohol	Cleaning:	Purchase locally
		metal part, oil stains, toner stains	Keep away from flame

General Circuit Diagram

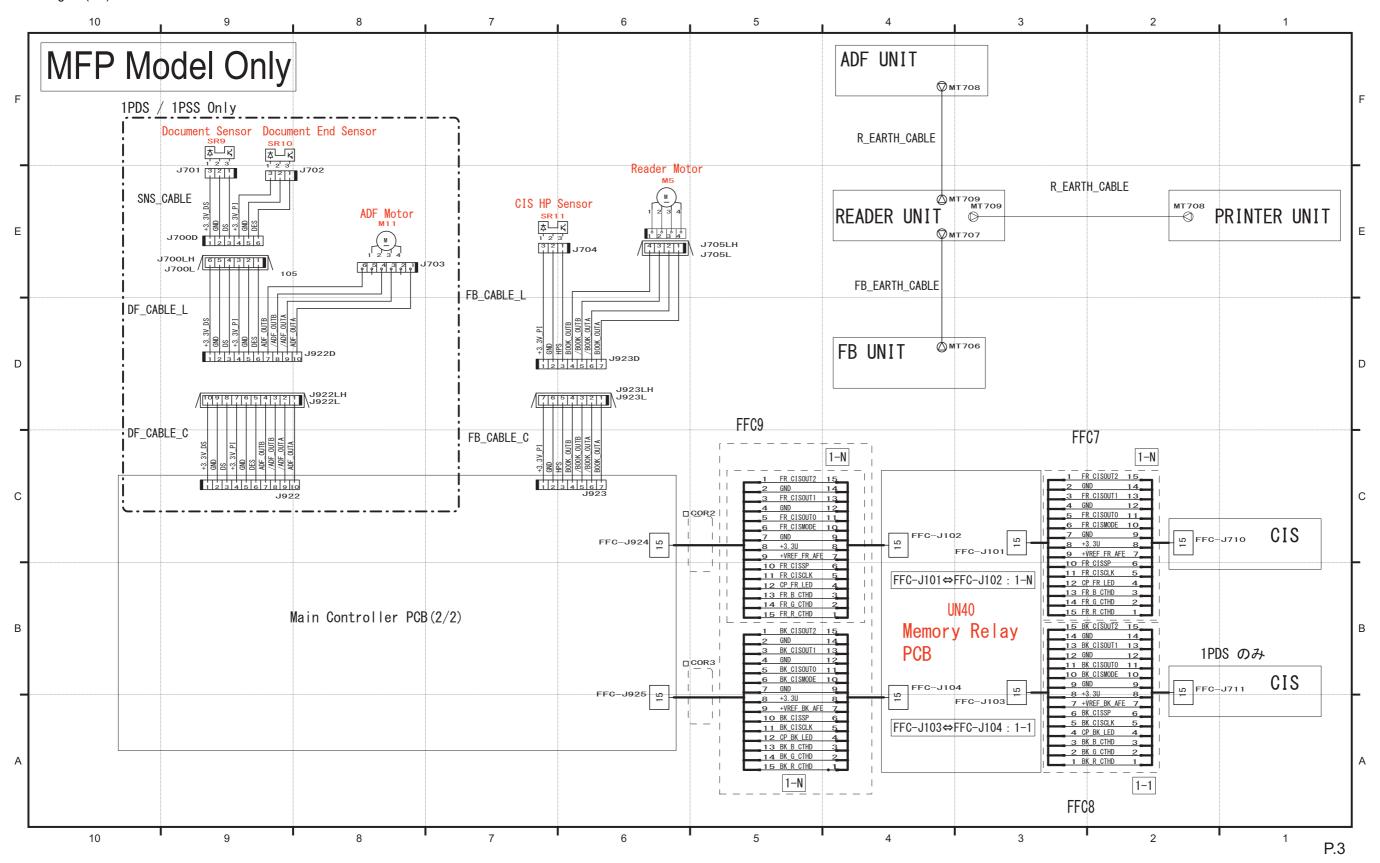
General Circuit Diagram(1/3)



General Circuit Diagram(2/3)



General Circuit Diagram(3/3)



Backup Data List

												Delete														
		Rep	olace			Me	enu > Syste	m Manage	ment Settin	gs					Service	Mode > CO	PIER > FU	NCTION >			Ва	ckup by U	ser	Bac	kup by Ser	vice
Data	Location			Initialize	Initializ-	Initializ-			Menu	Clear						CLEAR				SPLMAN						
		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- nation		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
Book	Main Control- ler PCB	-	Clear	Clear	-	Clear	-	-	-	-		-	-	-	-	-	Clear	-	-	-	Yes	Remote UI *6 LUI *7	PC, USB memory	No	-	_
Settings N																										
Preferen- ces	Main Control- ler PCB	-	Clear	Clear	-	-	Clear*9	-	-	-	Clear*10	Clear	-	-	-	-	Clear	-	-	-	Yes	Remote UI *6 LUI *7	PC, USB memory	No	-	-
Settings	Main Control- ler PCB	-	Clear	Clear	-	-	-	Clear	-	-	-	Clear	-	-	-	-	Clear	-	-	-	Yes	Remote UI *6 LUI *7	PC, USB memory	No	-	-
tination	Main Control- ler PCB	-	Clear	Clear	-	-	-	-	Clear	-	-	Clear	-	-	-	-	Clear	-	-	-	Yes	Remote UI *6 LUI *7	PC, USB memory		-	-
ment Set- tings	Main Control- ler PCB		Clear	Clear	-	-	-	-	-	Clear	-	Clear	-	-	-	-	Clear	-	-	-	Yes	Remote UI *6 LUI *7	PC, USB memory	No	-	_
Status Mo																										
	Main Control- ler PCB	-	Clear	Clear	-	-	-	-	-	-	-	-	-	-	-	Clear	Clear	-	-	-	No	-	-	No	-	-
Counter																										
Page counter (Main Control- ler)	Main Control- ler PCB	-	Clear	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	-	No	-	-
Part counter (Main Control- ler)	Main Control- ler PCB	-	Clear	Clear	-	-	-	-	-	-	-	-	-	-	Clear	-	-	-	-	-	No	-	-	No	-	-
Part counter (DC Con- troller)	Control-	Clear	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	-	No	-	-
Other	Main	I	Clear				I	ı				ı	I		I	1	I	1	ı		No	ı		No		
number	Main Control- ler PCB	-	Clear	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No	-	-	No	-	-
Key and Certifi- cate Set- tings	Main Control- ler PCB	-	Clear	Clear	Clear	-	-	-	-	-	-	-	-	-	-	-	Clear	-	-	-	No	-	-	No	-	-
Service m	ode																									
mode	Main Control- ler PCB	-	Clear	-	-	-	-	-	-	-	-	-	Clear	-	-	-	-	-	-	-	No	-	-	No	-	-

												Delete														
		Rep	lace			Me	enu > Syste	em Manage	ment Settir	ngs					Service I	Mode > CO	PIER > FUI	NCTION >			Ва	ackup by U	ser	Bac	kup by Se	rvice
Data	Location			Initialize	Initializ-	Initializ-			Menu	Clear			CLEAR SPLMAN													
Juli		Engine Control- ler PCB	Main Control- ler PCB	All Data / Settings	ing Key and Cer- tificate	ing Ad- dress Book	Preferen- ces	Function Settings		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 (Main Control- ler)	Main Control- ler PCB	-	Clear	-	-	-	-	-	-	-	-	-	-	Clear	-	-	Clear	-	-	-	Yes	Remote UI *6 LUI *7	PC, USB memory	Yes	Service mode*5	USB memory
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			1	1		-		1		1														l .		
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 except 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: 0/PWD: 0) 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
000 to 099	Toner Bottle	500 to 599	Scan
100 to 199	Total	600 to 699	Memory media print
200 to 299	Сору	700 to 799	Reception print
300 to 399	Print	800 to 899	Report print
400 to 499	Copy and print	900 to 999	Transmission

000 to 099

No.	Counter Name	No.	Counter Name				
071	Toner Bottle (Black)	073	Toner Bottle (magenta)				
072	Toner Bottle (yellow)	074	Toner Bottle (cyan)				

100 to 199

No.	Counter Name	No.	Counter Name
101	Total 1	147	Total A (full color +mono color /small)
102	Total 2	148	Total A (full color +mono color 2)
104	Total (Small)	149	Total A (full color +mono color 1)
105	Total (full color1)	150	Total B1
106	Total (full color2)	151	Total B2
108	Total (Black1)	153	Total B (Small)
109	Total (Black2)	154	Total B (full color 1)
113	Total (Black / Small)	155	Total B (full color 2)
114	Total 1 (2-Sided)	156	Total B (Black1)
115	Total 2 (2-Sided)	157	Total B (Black2)
117	Small (2-Sided)	161	Total B (Black / Small)
121	Total (full color /small)	162	Total B1 (2-Sided)
123	Total (full color +mono color /small)	163	Total B2 (2-Sided)
124	Total (full color +mono color 2)	165	SmallB (2-Sided)
125	Total (full color +mono color 1)	169	Total B (full color /small)
126	Total A1	171	Total B (full color +mono color /small)
127	Total A2	172	Total B (full color +mono color 2)
129	Total A (Small)	173	Total B (full color +mono color 1)
130	Total A (full color 1)	181	Black Toner
131	Total A (full color 2)	182	Yellow Toner
132	Total A (Black1)	183	Magenta Toner
133	Total A (Black2)	184	Cyan Toner
137	Total A (Black / Small)	191	Toner replacement /Yellow
138	Total A1 (2-Sided)	192	Toner replacement /Magenta
139	Total A2 (2-Sided)	193	Toner replacement /Cyan
141	SmallA (2-Sided)	194	Toner replacement /Black
145	Total A (full color /small)		

200 to 299

No.	Counter Name	No.	Counter Name
201	Copy (Total 1)	246	CopyA (full color 2)
202	Copy (Total 2)	249	CopyA (Black1)
204	Copy (Small)	250	CopyA (Black2)
205	CopyA (Total 1)	252	CopyA (full color /small)
206	CopyA (Total 2)	256	CopyA (Black / Small)

No.	Counter Name	No.	Counter Name
208	CopyA (Small)	258	CopyA (full color +mono color /small)
209	Local Copy (Total 1)	259	CopyA (full color +mono color 2)
210	Local Copy (Total 2)	260	CopyA (full color +mono color 1)
212	Local Copy (Small)	262	CopyA (full color /small/double sided)
217	Copy (full color 1)	266	CopyA (Black / Small / 2-Sided)
218	Copy (full color 2)	273	Local (full color 1)
221	Copy (Black1)	274	Local (full color 2)
222	Copy (Black2)	277	Local Copy (Black1)
224	Copy (full color /small)	278	Local Copy (Black2)
228	Copy (Black / Small)	280	Local Copy (full color /small)
230	Copy (full color +mono color /small)	284	Local Copy (Black / Small)
231	Copy (full color +mono color 2)	286	Local Copy (full color +mono color /small)
232	Copy (full color +mono color 1)	287	Local Copy (full color +mono color 2)
234	Copy (full color /small /double sided)	288	Local Copy (full color +mono color 1)
238	Copy (Black / Small / 2-Sided)	290	Local Copy (full color /small/double sided)
245	CopyA (full color 1)	294	Local Copy (Black / Small / 2-Sided)

300 to 399

No.	Counter Name	No.	Counter Name
301	Print (Total 1)	324	Print (full color +mono color 1)
302	Print (Total 2)	326	Print (full color /small/double sided)
304	Print (Small)	330	Print (Black / Small / 2-Sided)
305	Print A (Total 1)	331	PDLPrint (Total 1)
306	Print A (Total 2)	332	PDLPrint (Total 2)
308	Print A (Small)	334	PDLPrint (Small)
309	Print (full color 1)	335	PDLPrint (full color 1)
310	Print (full color 2)	336	PDLPrint (full color 2)
313	Print (Black1)	339	PDLPrint (Black1)
314	Print (Black2)	340	PDLPrint (Black2)
316	Print (full color /small)	342	PDLPrint (full color /small)
320	Print (Black / Small)	346	PDLPrint (Black / Small)
322	Print (full color +mono color /small)	352	PDLPrint (full color /small/double sided)
323	Print (full color +mono color 2)	356	PDLPrint (Black / Small / 2-Sided)

400 to 499

No.	Counter Name	No.	Counter Name
402	Copy + Print (full color /small)	410	Copy + Print (full color +mono color 1)
404	Copy + Print (Black / Small)	412	Copy + Print (Small)
405	Copy + Print (Black2)	413	Copy + Print (2)
406	Copy + Print (Black1)	414	Copy + Print (1)
408	Copy + Print (full color +mono color /small)	418	Copy + Print (full color /small/double sided)
409	Copy + Print (full color +mono color 2)	422	Copy + Print (Black / Small / 2-Sided)

500 to 599

No.	Counter Name	No.	Counter Name
501	Scan (Total 1)	509	Color Scan (Total 1)
505	BlackScan (Total 1)	510	Color Scan (Total 2)
506	BlackScan (Total 2)	512	Color Scan (Small)
508	BlackScan (Small)		

600 to 699

No.	Counter Name	No.	Counter Name
631	Memory Media Print (Total 1)	642	Memory Media Print (full color /small)
632	Memory Media Print (Total 2)	646	Memory Media Print (Black / Small)
634	Memory Media Print (Small)	648	Memory Media Print (full color +mono color /small)
635	Memory Media Print (full color 1)	649	Memory Media Print (full color +mono color 2)
636	Memory Media Print (full color 2)	650	Memory Media Print (full color +mono color 1)
639	Memory Media Print (Black1)	652	Memory Media Print (full color /small/double sided)
640	Memory Media Print (Black2)	656	Memory Media Print (Black / Small / 2-Sided)

700 to 799

No.	Counter Name	No.	Counter Name
701	Receive Print (Total 1)	710	Receive Print (Black2)
702	Receive Print (Total 2)	712	Receive Print (full color /small)
704	Receive Print (Small)	716	Receive Print (Black / Small)
705	Receive Print (full color 1)	722	Receive Print (full color /small/double sided)
706	Receive Print (full color 2)	726	Receive Print (Black / Small / 2-Sided)
709	Receive Print (Black1)		

800 to 899

No.	Counter Name	No.	Counter Name
801	Report Print (Total 1)	810	Report Print (Black2)
802	Report Print (Total 2)	816	Report Print (Black / Small)
804	Report Print (Small)	826	Report Print (Black / Small / 2-Sided)
809	Report Print (Black1)		

900 to 999

No.	Counter Name	No.	Counter Name
921	TX ScanTotal 5 (Color)	945	TX Scan / E-Mail (Color)
922	TX ScanTotal 5 (Black)	946	TX Scan / E-Mail (Black)
939	Remote Scan (Color)	959	Memory Media Scan (Color)
940	Remote Scan (Black)	960	Memory Media Scan (Black)