SERVICE MANUAL

Color imageCLASS MF628Cw MF624Cw





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Introduction

Important Notices

Application

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

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

Corrections

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

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Caution

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

Explanation of Symbols

The following symbols are used throughout this Service Manual.

Symbols	Explanation	Symbols	Explanation
	Check.		Remove the claw.
	Check visually.		Insert the claw.
	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.
1x	Remove the screw.		Loosen the screw.
1x	Install the screw.		Tighten the screw.
	Cleaning is needed.	E	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, **TETE** 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.

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

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

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

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

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Laser Safety

Since radiation emitted inside the machine is completely confined within protective housings and external covers, the laser beam cannot escape from the machine during any phase of user operation.

Therefore this machine is classified in Class 1 laser products that are regarded as safe during normal use according to International Standard IEC60825-1.

How to Handle the Laser Scanner Unit

This machine is classified in Class 1 laser products.

However, inside the scanner unit, there is source of Class 3B laser beam and the laser beam is hazardous when entered into an eye. So, be sure not to disassemble the laser scanner unit. No adjustment can be made to the laser scanner unit in this machine in the field.

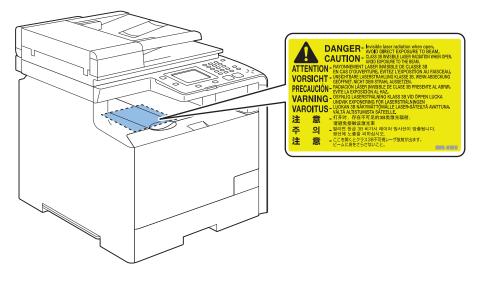
The label show in the following figure is attached on the laser scanner unit.

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

Diese Maschine ist der Klasse 1 der Laserprodukte zugeordnet.

Innerhalb der Scannereinheit befindet sich jedoch die Laserstrahlquelle der Klasse 3B und es ist gefährlich, wenn dieser Strahl in die Augen gerät. Die Laserscannereinheit darf unter keinen Umständen entfernt werden. Es dürfen in diesem Umfeld der Maschine keine Justagen an der Laserscannereinheit vorgenommen werden.

Das Etikett in folgendem Bild ist auf der Laserscannereinheit angebrachtt.



Toner Safety

About Toner

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

A CAUTION:

Never throw toner in flames to avoid explosion.

Handling Adhered Toner

• Use dry tissue paper to wipe off toner adhered to skin or clothes and wash in water.

- · Never use warm water for cleaning up toner to prevent toner particles from being gelated to soak into fibers permanently.
- Toner particles are reactive with vinyl polymers. Avoid contacting these materials.

Notes When Handling a Lithium Battery

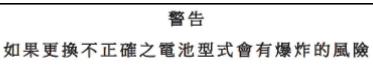
A CAUTION:

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

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

CAUTION:

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



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.

CAUTION:

Double pole/neutral fusing

CAUTION

DOUBLE POLE/NEUTRAL FUSING

ACHTUNG

Zweipolige bzw. Neutralleiter-Sicherung



Product Overview

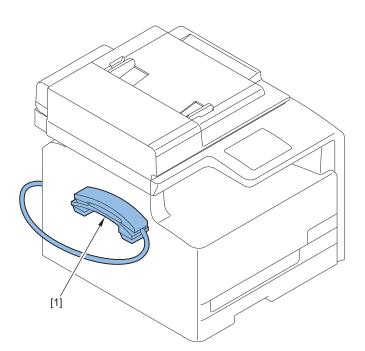
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Product Lineups

Host Machine

Function	MF620 Series (COUNTRY / REGION)				
	MF628Cw (EUR, CHN, AE/ IND, KOR, US/CND/LTN, TWN, JP)	MF626Cn (CHN)	MF624Cw (KOR, US/CND/ LTN)	MF623Cn (EUR, CHN)	MF621Cn (CHN, AE/IND)
Appearance					
Сору	Yes	Yes	Yes	Yes	Yes
Print	Yes	Yes	Yes	Yes	Yes
Fax	Yes	Yes	No	No	No
USB Scan	Yes	Yes	Yes	Yes	Yes
Network Scan	Yes	Yes	Yes	Yes	Yes
Wireless LAN	Yes	No	Yes	No	No
Direct Mode	Yes	No	Yes	No	No
SEND	Yes	Yes	Yes	Yes	No
Secure Print	No	No	No	No	No
Remote UI	Yes	Yes	Yes	Yes	Yes
ADF (1-side)	Yes	Yes	Yes	Yes	No
Automatic 2-sided Print	No	No	No	No	No





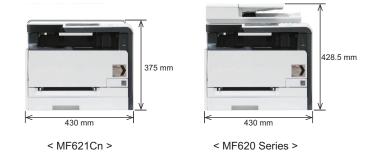
No.	Name	Description	Remarks
1	TELEPHONE 6 KIT Long cord Cool White	Addition of phone	MF628Cw (EUR)
	HANDSET KIT 3 Long cord Cool White		MF628Cw (ASIA)
			Standard: MF628Cw (CHN/TWN) / MF626Cn

Product Features

Features

Compact Size MFP

A compact body size for A4 color laser MFP has been realized.



Improved Control Panel operability

A 3.5-inch color Touch Panel is installed. Support for touch and flick has realized the operability like a smartphone. In addition, reducing the hard keys and changing them to icons in the display have realized the UI that allows for easy customization while maintaining the level of operability.

Direct Mode supported (supported models only)

Direct communication between the host machine and smartphone, tablet, PC, etc. has been realized.

Mobile print supported (Apple Air Print, Google Cloud Print)

Mobile print that enables printing from smartphone, tablet, PC, etc. via an application such as Google DocsTM and GmailTM has been realized.

Wireless LAN supported (supported models only)

Connection between the host machine and PC by wireless communication (radio wave) via wireless LAN router has been realized.

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
Manual feed slot paper feed	Separation roller 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	AB series: 25.0%, 50.0%, 70.7%, 81.6%, 86.5%, 100.0%, 115.4%, 122.4%, 141.4%, 200.0%, 400.0% INCH series: 25.0%, 50.0%, 64.7%, 78.5%, 100.0%, 129.4%, 200.0%, 400.0% A series: 25.0%, 50.0%, 70.7%, 100.0%, 141.4%, 200.0%, 400.0% AB/INCH series: 25.0%, 50.0%, 70.7%, 81.6%, 86.5%, 100.0%, 115.4%, 122.4%, 141.4%, 200.0%, 400.0% Zoom: 25 to 400% (1% increment)
Warm-up Time *1	About 23 seconds or less
Print area Cassette	For print jobs (Non-envelope): • Leading edge: 5.0 +/- 1.5 mm • Left Side: 5.0 + 1.8 mm / -1.2 mm For print jobs (envelope): • Leading edge: 10.0 +/- 1.5 mm • Left Side: 10.0 + 1.8 mm / -1.2 mm For copy jobs: • Leading edge: 5.0 +/- 1.5 mm • Left Side: 5.0 + 1.8 mm / -1.2 mm FAX / Report: • Leading edge: 5.0 +/- 1.5 mm • Left Side: 5.0 + 1.8 mm / -1.2 mm

Item	Specification / Function
Print area Manual feed slot	(Non-envelope)
	For print jobs:
	 Leading edge: 5.0 +/- 2.0 mm Left Side: 5.0 +/- 1.5 mm
	For copy jobs:
	• Leading edge: 5.0 +/- 2.0 mm
	• Left Side: 5.0 +/- 1.5 mm
	FAX / Report: • Leading edge: 5.0 +/- 2.0 mm
	• Leading edge. 5.0 +/- 2.0 mm
	(envelope)
	For print jobs / For copy jobs:
	 Leading edge: 10.0 +/- 3.0 mm Left Side: 10.0 +/- 2.5 mm
Reading resolution	Color: 600 x 600 dpi, 300 x 600 dpi, 300 x 300 dpi
	B&W: 600 x 600 dpi, 300 x 600 dpi
Reading Speed	Fixed (A4/LTR): • N/A
	Continuous reading, SEND:
	Color: 10 images / minute (A4/LTR)
	B&W: 20 images / minute (A4) D&W: 21 images / minute (LTD)
Copy resolution	B&W: 21 images / minute (LTR) 600 x 600 dpi
Print resolution	600 x 600 dpi
First copy time	Fixed (A4/LTR):
	Color / B&W: 19.0 seconds or less
	Continuous reading (A4/LTR):
	Color / B&W: 19.0 seconds or less
First print time	Color / B&W: 18.0 seconds or less (A4/LTR)
Print Speed	Color / B&W: 14 ppm (A4/LTR)
Available paper type for cassette	Thin paper, Plain paper, Recycled paper, Color paper, Thick paper, Coated paper, Label, Postcard, Envelope
	(Refer to "Paper types / Paper size" on page 13)
Available paper type for	Thin paper, Plain paper, Recycled paper, Color paper, Thick paper, Coated paper, Transparency, Label,
manual feed slot	Postcard, Envelope
	(Refer to "Paper types / Paper size" on page 13)
sette	A4, B5, A5, LGL, LTR, STMT, EXEC, OFFICIO, B-OFFICIO, M-OFFICIO, GLTR, GLGL, FLS, AFLS, indLGL, K16, Index card, Postcard, Reply Postcard, Envelopes (COM10, Monarch, Nagagata 3, Youga-
	tanaga 3, C5, DL), Custom Paper Size
	(Refer to "Paper types / Paper size" on page 13)
Manual feed slot paper size	
	indLGL, K16, Index card, Postcard, Reply Postcard, Envelopes (COM10, Monarch, Nagagata 3, Youga- tanaga 3, C5, DL), Custom Paper Size
	(Refer to "Paper types / Paper size" on page 13)
Cassette capacity	150 sheets (60 to 90 g/m ²)
Manual feed slot capacity	1 sheet
Delivery tray stacking ca-	125 sheets (60 to 90 g/m ²)
pacity *2	1 to 00 sheets
Continuous copying Automatic 2-sided	1 to 99 sheets N/A
Memory capacity	512 MB
Sleep mode	Available
Allowable environmental	10 to 30 deg C
temperature	
Allowable humidity	20 to 80% in relative humidity (no condensation)
Operational noise	At stand-by:
	 43 dB or lower (acoustic power level) During copy jobs:
	Color: 65.2 dB or lower
	B&W: 63.9 dB or lower

Item	Specification / Function
Power rating	Rated input voltage: 100 V (100 V system), 120 to 127 V (120 V system), 220 to 240 V (200 V system) Rated input frequency: 50/60 Hz
Maximum power consump- tion	100 V: 900 W or lower 120 V: 900 W or lower 230 V: 900 W or lower
Average power at operation	100 V: 400 W or lower 120 V: 400 W or lower 230 V: 400 W or lower
Average power at standby	100 V: 20 W 120 V: 20 W 230 V: 20 W
Average power at sleep mode	100 V: 1 W (wired) / 2 W (wireless) 120 V: 1 W (wired) / 2 W (wireless) 230 V: 1 W (wired) / 2 W (wireless)
Power consumption at Main Power Switch OFF	0.5 W or lower
Ozone emission	Color: 3.0 mg/h B&W: 1.5 mg/h
Dimensions (W x D x H)	ADF model: 430 × 484 × 428.5 mm Copyboard model: 430 × 484 × 375 mm
Weight	ADF model (including toner cartridges): Approx. 26 kg Copyboard model (including toner cartridges): Approx. 24 kg
Accessories	Refer to "Options" on page 6

*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 : The actual stack capacity varies depending on the site environment and the type of paper used.

ADF Specifications

Item	Specification / Function
Document setting direction	Set the document face up (face-up method)
Document setting position	Center reference
Document processing mode	1-sided document: 1-sided copy
Document scanning	Continuous reading
Loadable sheets	A4/LTR: 50 sheets (80 g/m ²), LGL: 30 sheets (80 g/m ²)
Mixed paper reading	Copyboard Glass: 216 mm × 297 mm Feeder: 216 mm × 356 mm
Mixed paper	Available
Document AE sensor	N/A
Document size sensor	N/A
Stamp function	N/A
Allowable environment	Same as device

Wireless LAN Specifications

Item	Specification / Function	
Standard	IEEE 802.11g / IEEE 802.11b / IEEE 802.11n *	
Transmission Scheme	DS-SS System / OFDM System	
Frequency Range	2412 to 2472 MHz	

Item	Specification / Function			
Data Transmission Rate	IEEE 802.11g:			
	• 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54 Mbps			
	IEEE 802.11b:			
	• 1/2/5.5/11 Mbps			
	IEEE 802.11n:			
	• SGI Invalidated 20 MHz : 6.5 / 13 / 19.5 / 26 / 39 / 52 / 58.5 / 65 Mbps			
	• SGI Validated 20 MHz : 7.2 / 14.4 / 21.7 / 28.9 / 43.3 / 57.8 / 72.2 Mbps			
	 SGI Invalidated 40 MHz : 13.5 / 27 / 40.5 / 81 / 108 / 121.5 / 135 Mbps 			
	 SGI Validated 40 MHz : 15 / 30 / 45 / 60 / 90 / 120 / 150 Mbps 			
Communication Mode	Infrastructure Mode			
	Direct Mode			
Security	WEP, WPA-PSK (TKIP/AES-CCMP), WPA2-PSK (TKIP/AES-CCMP)			

*: WPS (Wi-Fi Protected Setup), Connection can be established by manually setting values.

SEND Specifications

Item	m Specification / Function				
	File Server Transmission	E-mail Sending IFAX		IFAX	
			Reception	Transmission	
Communi- cation Pro- tocol	SMB (TCP/IP) , FTP	SMTP			
Data For- mat	PDF, PDF (Compact), PDF(Compact/OCR), PDF(OCR), JPEG, TIFF	PDF, PDF (Compact), PDF(Compact/OCR), PDF(OCR), JPEG, TIFF	TIFF (BW)	JPEG, TIFF (Profile-S, Profile-F)	
System Environ- ment	 Windows XP / Vista / 7 / 8 / Server 2003 / Server 2008 / Server 2012 Solaris Version 2.6 or later Mac OS X (Mac OS X 10.7 and 10.8 are not supported.) Red Hat Linux 7.2 or later 	 Windows XP / Vista / 7 / 8 / Server 2003 / Server 2008 / Server 2012 Solaris Version 2.6 or later Mac OS X Red Hat Linux 7.2 or later 			
Interface	100BASE-TX, 10BASE-T				
Inputted Image	Text, Text / Photo, Photo				
Color Mode	Color, Black/White				
Paper Size	AB configuration: A4, A5, B5 Inch configuration: Legal (LGL), Letter (LTR), Statement (STMT)				

*1: Size of recording paper at I-Fax reception is A4 size or larger.

FAX Specifications

Item	Specification / Function	
Suitable line	Public Switched Telephone Network (PSTN) *	
	Telephone line connection: 1	
Communication Protocol	Super G3, G3	
Modulation method	Image modulation: V.34 / V.17 / V.29 / V.27ter	
L	Transmission procedure: V.21	
Transmission speed	33,600 bps	
Compression method	JBIG, MMR, MR, MH	
Error correction method	ECM	
Minimum receivable input level	V.17 / V.27ter / V.29:	
	• -6 to -43 dBm V.34:	
	• 24.0 k to 28.8 k bps: -43 dBm	
	• 28.8 k to 33.6 k bps: -38 dBm	
	• 33.6 k bps: -9 dBm	
Modem IC	SiliconLabs Si2435	
Scanning line density	Normal: 200 x 100 dpi	
	Fine: 200 x 200 dpi	
	Photo: 200 x 200 dpi Super fine: 200 x 400 dpi	
	Ultra fine: 400 x 400 dpi	
Half tone	256 tones	
Receivable reduction setting	Automatic reduction: 75-100% (1% increment)	
FAX/TEL switching	Available	
Answering machine transfer setting	Available	
Remote reception	Available	
Auto-dialing	Available	
Delayed transmission	N/A	
Broadcast transmission	Destinations: up to 210	
Dual access	Up to 10 schedules	
Image data backup	Available	

*: Up to 33.6Kbps in modem speed is currently available in PSTN. Note that available modem speed is telephone-line dependent.

Paper types / Paper size

Туре	Size	Width di-	Feeding	Pickup p	osition
		rection (mm)	direction (mm)	Manual feed slot	Cassette
Thin paper (60 g/m ²)	A4 *2	210.0	297.0	Yes	Yes
Recycled paper (60 to 74 g/m ²)	B5	182.0	257.0	Yes	Yes
Color paper (60 to 74 g/m ²)	A5	148.0	210.0	Yes	Yes
Plain paper 1 (60 to 74 g/m ²)	LGL	215.9	355.6	Yes	Yes
Plain paper 2 (70 to 84 g/m ²)	LTR *2	215.9	279.4	Yes	Yes
Plain paper 3 (75 to 90 g/m ²)	STMT	139.7	215.9	Yes	Yes
Thick paper 1 (85 to 120 g/m ²)	EXEC	184.0	266.7	Yes	Yes
Thick paper 2 (121 to 163 g/m ²)	OFFICIO	215.9	317.5	Yes	Yes
	B-OFFICIO	215.9	355.0	Yes	Yes
	M-OFFICIO	215.9	341.0	Yes	Yes
	GLTR	203.2	266.7	Yes	Yes
	GLGL	203.2	330.2	Yes	Yes
	FLS	215.9	330.2	Yes	Yes
	AFLS	206.0	338.0	Yes	Yes
	indLGL	215.0	345.0	Yes	Yes
	K16	195.0	270.0	Yes	Yes
	Index card	76.2	127.0	Yes	Yes
	Custom Paper Size	83.0 to 215.9	127.0 to 355.6	Yes *3	Yes *4
Coated paper 1 (100 to 110 g/m ²)	A4	210.0	297.0	Yes	Yes
Coated paper 2 (111 to 130 g/m ²) Coated paper 3 (131 to 160 g/m ²)	LTR	215.9	279.4	Yes	Yes
Coated paper 4 (161 to 220 g/m ²)	A4	210.0	297.0	Yes	No
	LTR	215.9	279.4	Yes	No
Transparency *1	A4	210.0	297.0	Yes	No
	LTR	215.9	279.4	Yes	No
Label	A4	210.0	297.0	Yes	Yes
	LTR	215.9	279.4	Yes	Yes
Postcard	Postcard	100	148	Yes	Yes
	Reply Postcard	148	200	Yes	Yes
Envelopes	Envelopes COM10	104.7	241.3	Yes	Yes
	Envelopes Monarch	98.4	190.5	Yes	Yes
	Envelopes Nagagata 3	120	235	Yes	Yes
	Envelopes Yougatanaga 3	120	235	Yes	Yes
	Envelopes C5	162	229	Yes	Yes
	Envelopes DL	110	220	Yes	Yes
	Index card	76.2	127.0	Yes	Yes
	Custom Paper Size	83.0 to 215.9	127.0 to 355.6	Yes *3	Yes *4

*1: Use transparency sheets for laser printers. (Canon's genuine transparency sheets are specially recommended.)

*2: Fax-received documents or reports can be printed. (excluding heavy paper)

*3: Paper of the following custom paper sizes can be loaded.

• Width 3" to 8 1/2" (76.2 to 215.9 mm); Length 5" to 14"(127 to 355.6 mm)

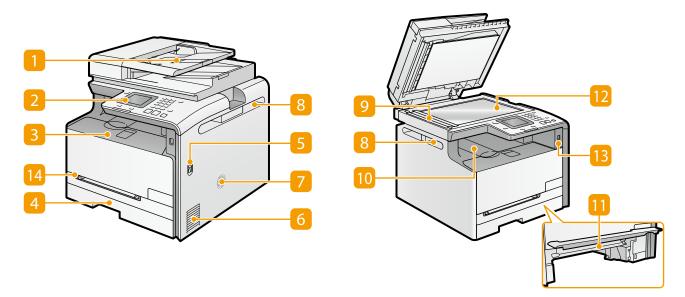
*4: Paper of the following custom paper sizes can be loaded.

• Width 4" to 8 1/2" (100 to 215.9 mm); Length 5 7/8" to 14" (148 to 355.6 mm)

Name of Parts

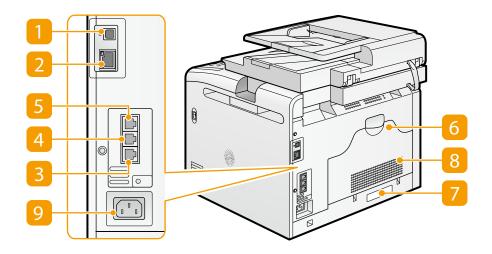


Front Side



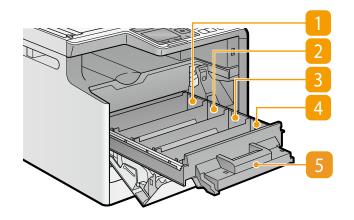
No.	Name	No.	Name
1	Feeder	8	Grip
2	Control panel	9	Paper scanner for document from feeder
3	Front cover	10	Delivery tray
4	Paper cassette	11	Manual feed guide
5	Main power switch	12	Copyboard glass
6	Vent-hole	13	USB memory port
7	Speaker	14	Manual feed slot

Rear Side



No.	Name	No.	Name
1	USB port	6	Rear cover
2	LAN port	7	Rating plate
3	Telephone line terminal	8	Vent-hole
4	External telephone terminal	9	Power socket
5	Handset terminal		

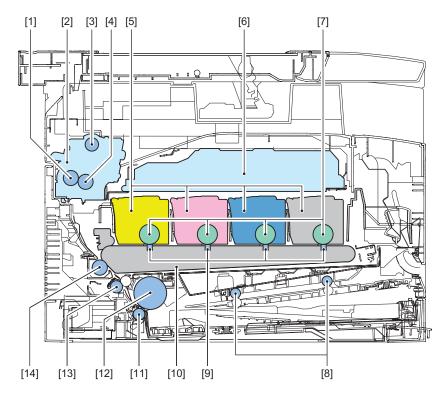
Inside



No.	Name
1	Y toner cartridge slot
2	M toner cartridge slot
3	C toner cartridge slot
4	Bk toner cartridge slot
5	Toner cartridge tray

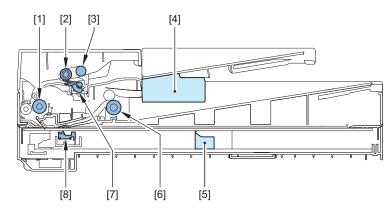
Cross Section View

Host Machine



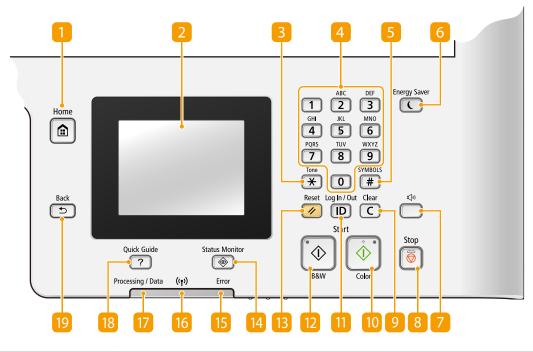
No.	Name	No.	Name
1	Pressure roller	8	Manual feed roller
2	Fixing assembly	9	Primary transfer pad
3	Feed roller	10	ITB unit
4	Fixing film unit	11	Cassette separation roller
5	Toner cartridge	12	Cassette pickup roller
6	Laser scanner unit	13	Registration roller
7	Photosensitive drum	14	Secondary transfer external roller

Reader / ADF Unit



No.	Name	No.	Name
1	ADF registration roller	5	Reader unit
2	ADF separation roller	6	ADF delivery roller
3	ADF pickup roller	7	ADF separation pad
4	ADF unit	8	CIS unit





No.	Name	Explanation
1	[Home] key	Press to display the <home> Screen.</home>
2	Display	You can view the progress of copy, fax, and other jobs and error statuses. The display is a touch panel, allowing you to operate the screen by touch to specify settings.
3	[*] key	Press to switch the type of text that is entered.Press to use tone dialing such as when receiving fax information services.
4	Numeric keys ([0]-[9] keys)	Press to enter numbers and text.
5	[#] key	Press to enter symbols such as "@" or "/".
6	[Energy Saver] key	Press to put the machine into sleep mode. The key lights up green when the machine is in sleep mode. Press the key again to exit sleep mode.
7	[Sound Volume] key	Press to adjust volume.
8	[Stop] key	Press to cancel copying, faxing, and other operations.
9	[Clear] key	Press to delete the entered numbers and text.
10	[Start] (Color) key	Press to scan or copy documents in color. In addition, if you press this key when you start printing images from a USB memory device, printouts are printed in color.
11	[ID] key	Press after entering the ID and PIN to log on when Department ID Management is enabled. After you finish using the machine, press this key again to log off.
12	[Start] (B&W) key	Press to scan or copy documents in black and white. In addition, if you press this key when you start printing images from a USB memory device, printouts are printed in black and white.
13	[Reset] key	Press to cancel the settings and restore the previously specified settings.
14	[Status Monitor] key	Press to check the status of printing or faxing, to view the usage history, or to view the network settings such as the IP address of the machine. You can also check the status of the machine, such as the remaining amounts of paper and toner, or whether any errors occurred.
15	[Error] indicator	Blinks or lights up when an error such as a paper jam occurs.
16	Wi-Fi indicator *1	Lights up when the machine is connected to wireless LAN.
17	[Processing/Data] indicator	Blinks while operations such as sending or printing are being performed. Lights up when there are documents waiting to be processed.
18	[Quick Guide] key	Press to view operation guidance and error causes/solutions.
19	[Back] key	Press to return to the previous screen. If you press this key when specifying settings, for example, the settings are not applied and the display returns to the previous screen.

*1 : Models supporting wireless LAN only



Technical Explanation

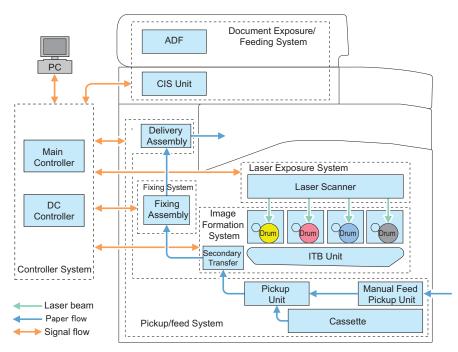
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Function (DCM)	57

Basic Configuration

Configuration function

This device is roughly composed of the 6 functional blocks as shown in the figure below

- Document exposure/delivery system
- · Controller system
- Laser exposure system
- Image formation system
- · Fixing system
- · Pickup / Feed System



Basic Sequence

Basic Operational Sequence

The CPU on the DC controller PCB controls the operational sequence. The table below shows the operation and the purposes in each status from start-up of the device and to last rotation after print job completion.

Section	Outline	Operation
WAIT (Wait)	Interval from power-ON or reac- tivation from sleep mode upon shutting the door(s) to entering the print-ready status	Activate the printer to be ready for printing. During WAIT time, the following oper- ations are done: pressure is applied to the pressure roller of the fixing assembly; check cartridges and units being in place; move the developing unit to the home position; and, clean the ITB. When needed, color displacement is corrected and the image is stabilized.
STBY (STBY)	Interval from the wait time or the last rotation to issuance of a print command from the main control- ler or power-OFF.	Maintain the print-ready status. The printer enters the sleep mode upon receiving a "sleep" command from the main controller during the stand-by status. The printer executes color displacement correction or image stabilization upon receiving cor- responding commands from the main controller.
INTR (IINTR)	Interval from issuance of a print command from the main control- ler during the stand-by status to warming up the fixing assembly to the target temperature.	To make the printer ready for print jobs, activate high-voltage bias PCBs, the laser scanner unit and the fixing assembly.
PRINT (Print)	Interval from the initial rotation to completion of last page fixation.	Based on the video signals input from the main controller, form the static latent image on the photosensitive drum to transfer and fix the toner image on paper. When a certain pages are printed after power-ON, the device undergoes color displacement correction and/or image stabilization.

Section	Outline	Operation
LSTR	Interval from print job completion	The last page of the print job is completely delivered. In this status, the laser scanner
(Last rotation)	to motor deactivation.	unit and high-voltage bias PCBs are inactive. The printer starts the initial rotation
		upon receiving a print command from the main controller during this status.

Print Sequence

See "Appendix" > "Print Sequence" in this manual.

Print Mode

The models of this series switch among 2 print modes to optimize the normal print speed each for color and B&W printing.

Print mode	Paper feed speed	Paper type	Print speed	Remarks
Normal speed mode	1/1 speed	(60 g/m ²) Plain paper 1 (60 to 74 g/m ²) Plain paper 2 (70 to 84 g/m ²) Plain paper 3 (75 to 90 g/m ²) Recycled paper (60 to 74 g/m ²) Color paper (60 to 74 g/m ²)	14 ppm *	Common to color and B&W printing
3/7 speed mode	3/7 speed	Thick paper 1 (85 to 120 g/m^2) Thick paper 2 (121 to 163 g/m^2) Coated paper1 (100 to 110 g/m ²) Coated paper2 (111 to 130 g/m ²) Coated paper3 (131 to 160 g//m ²) Coated paper4 (161 to 220 g//m ²) Transparency Labels Postcards Envelopes	6.0 ppm *	

* : The fastest print speed in each mode.

Document Exposure/Feeder System

Document Exposure System

Overview

Specifications / Control / Function List

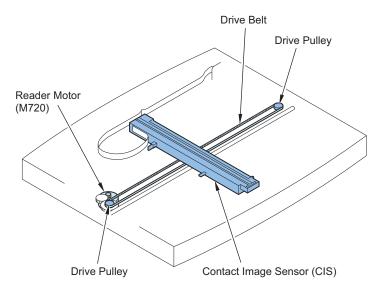
Item	Function / Method
Document Exposure	LED
Document Scan	Book Mode: • Scan by the shift of the contact sensor (CIS) ADF: • Document stream reading by fixed contact sensor (CIS)
Scanning Resolution	Color: • 600 dpi (horizontal scanning) x 600 dpi (vertical scanning) • 300 dpi (horizontal scanning) x 600 dpi (vertical scanning) • 300 dpi (horizontal scanning) x 300 dpi (vertical scanning) Black and White: • 600 dpi (horizontal scanning) x 600 dpi (vertical scanning) • 300 dpi (horizontal scanning) x 600 dpi (vertical scanning)
Number of Gradations	256 Gradations
Magnification	25% to 400% Horizontal scanning direction: Image processing by the Main Controller PCB Vertical scanning direction: The speed at which the carriage moves and image processing by the Main Controller PCB
Lens	CIS/Color
CIS	Number of lines: 1 line Number of pixels: 5184 pixels as total pixels (5107 pixels as effective pixels) Maximum document scanning width: 216mm
CIS Drive Control	Drive Control by Reader Motor (M720)
Document Size Detection	None
Dirt Sensor Detection	None

Major Components

Followings are the major components for Document Exposure System.

- The contact sensor to scan document.
- The Reader motor (M720), the drive pulley, the drive belt, to shift the contact sensor.

In image scanning control, the contact sensor is shifted by rotating the Reader motor based on the drive signal from the Main Controller PCB and scan the original on the copyboard glass. When ADF is in use, image is scanned by feeding the originals by ADF instead of shifting the contact sensor.



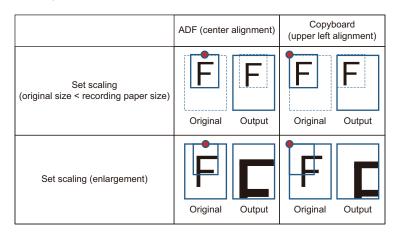
Reference Position for Reading/Printing

The reference position for reading/printing from the copyboard or ADF is explained below.

Reference Position for Reading

Upper left alignment is applied when the original is read from the copyboard, and center alignment is applied when the original is read from the ADF.

In the case where only a part of the document is read due to the scaling setting, the read area and the output result differ between copyboard reading and ADF reading.



Reference Position for Printing

Only when the original is read from ADF without reduction layout setting (1 on 1), it is printed in center alignment. In other cases, upper left alignment is applied for printing.

	ADF (center alignment)	Copyboard (upper left alignment)	
1 in 1	F	F	
2 in 1			
4 in 1	F F F F	F F F F	

Document Feeder System

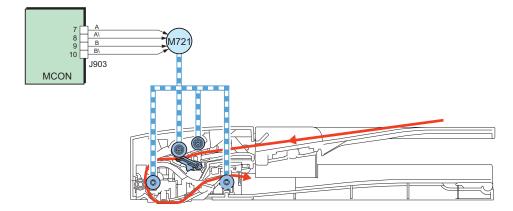
Overview

Pickup/Feed/Delivery Operation

The Auto Document Feeder (ADF) mounted onto this host machine is dedicated to stream-reading.

1 Motor (ADF Motor: M721) is engaged in Pickup/Feeding/Delivery.

At the start of Copy/Fax/Scan, the ADF Motor (M721) is driven by the drive command from the Main Controller PCB to Pickup/ Feed the originals set face up on the original tray one by one in order from the top. The original is scanned by the contact sensor when moving through the copyboard glass, and then delivered face down to the original Delivery Assembly.



Various Control

Original Detection

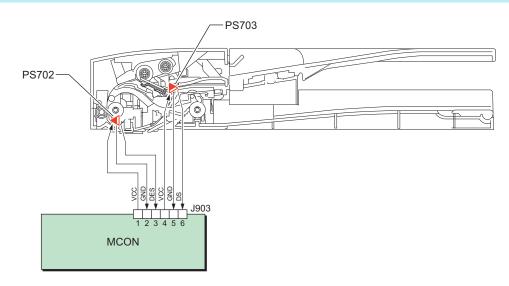
There are two types of Original Detection in this Equipment.

- Original Presence / Absence Detection
 Setting the original onto the original tray pushes up the actuator, activating (light shielded =>light transmitted) the Document
 Sensor (SR703), and resulting in detection of the presence of original.
- 2. Detection of the End of the Original

The leading edge of the original that is fed pushes up the actuator, activating the Document End Sensor (SR702) (light shielded =>light transmitted) and resulting in detection of the reach of the leading edge of original. Furthermore, when the trailing edge of the original passes the actuator position, the actuator returns to the original position, inactivating the Document End Sensor (SR702) (light transmitted => light shielded). The trailing edge of the original is detected by this mechanism. The original length that can be scanned with this equipment is less than 400 mm. Passing of the original longer than this results in jam stop. The original length is calculated by the time it takes from detection of the leading edge of the original to detection of the trailing edge of the original.

NOTE:

There is no function to detect the original size (original width, length) in this equipment.



Jam Detection

The following cases are judged as jam.

- 1. In case of delay in reaching DS/DES or stationary during scanning of original
- 2. In case DS/DES is detected as ON at power-on (residual paper jam)
- 3. In case of detecting original of which length is 400 mm or longer

Operation after Detection of Jam

The host machine stops scanning operation and displays "CHECK DOCUMENT" on the control panel. No jam code is displayed. In case of the model equipped with fax function (with built-in speaker), the warning beep occurs at the detection of jam.

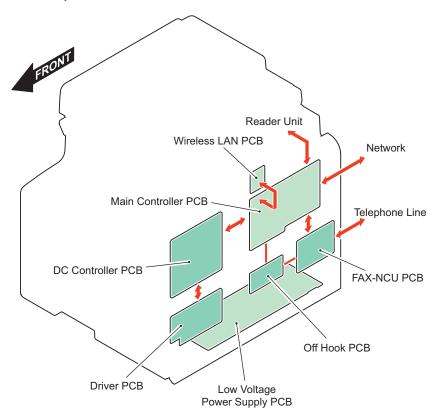
How to release Jam.

Remove the jammed paper and open / close the ADF upper cover

Controller System



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



Parts name	Role
Main Controller	Provides controls on the system, image processing, reader / ADF, FAX and network and maintain various setting
PCB	values.
DC Controller PCB	Provides controls on printer, laser, high-voltage PCBs, I/O, etc. and maintain setting values.

Controls

Motor Controls

This product uses 3 motors for paper feed and image formation. The tables below show motor specifications used in this product.

Name	Symbol	Driving parts	Туре	Failure detection
Drum Motor	M701	Photosensitive Drum, Developing Cylinder, ITB	DC Motor	Available
Pickup Motor	M702	Pickup Roller, Feed Roller, Registration Roller	Stepping Motor	Not Available
Fixing Motor	M703	Pressure Roller, Delivery Roller	Stepping Motor	Not Available

Open door detection

This product detects door opening by the door open sensor.

Sensor Name	Function
Front Cover Sensor (SR612)	Detect open the Front Cover.
Rear Cover Sensor (SR613)	Detect open the Rear Cover.

When this sensor detects door opening, the DC controller stops driving motors and solenoids.

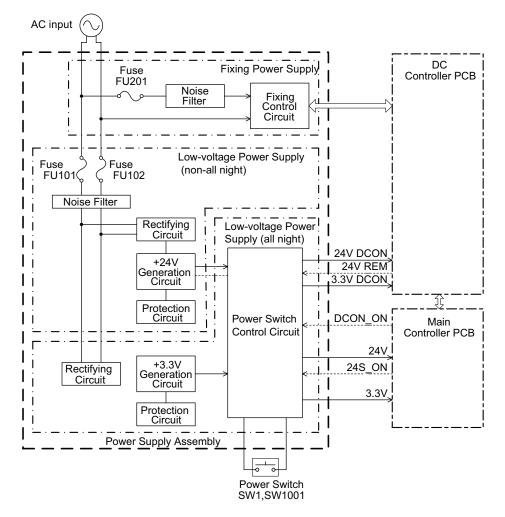
Low-Voltage Power Supply Control

This circuit converts AC voltage input from the power supply receptacle through the fixing power supply into DC power supply and supplies it to each load.

See the figures below for low-voltage / fixing power supply block diagrams.

• Low-voltage power supply: generates DC power supply required in the printer.

• Fixing power supply: supplies AC power supply to the low-voltage power supply and control the fixing heater temperatures. The low-voltage power supply is actuated when the AC power supply is attached to the inlet and the power switch is turned on. The AC power supply supplied through the fixing power supply is converted to + 24V and + 3.3V of the DC power supply in the low-voltage power supply before supplied to the printer engine.



Protective control

The low-voltage power supply has protective controls against excessive current and voltage, which automatically detect excessive current or abnormal voltage to shut off the output voltage for avoiding the power supply circuit failures.

In case the DC voltage output is not detected from the low-voltage power supply, the protective control may be activated. Turn off the power switch and remove the AC power supply from the inlet to settle load troubles. Once these are settled, turn on the power switch again.

Another protective control is provided by 2 power fuses on the fixing power supply. These are open when excessive current is detected to shut off power supply to low-voltage power supply.

Power-Saving Mode

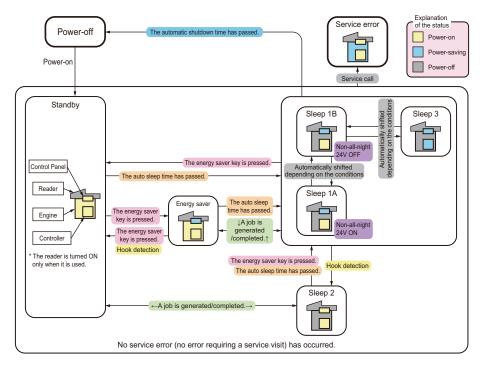
This is the function to save power consumed by the printer. The table below lists various power-saving modes.

Power-Saving Mode	Status
Stand-by	at power-OFF on the reader
Power-saving	at power-OFF on the reader and the display (LCD)

2. Technical Explanation

Power-Saving Mode		Status
Sleep	Sleep 1	at power-OFF on the reader, engine and the display (LCD)
	Sleep 2	at power-OFF on the reader and the engine.
	Sleep 3 (3W sleep)	at power-off on the reader, the engine and the display (LCD)
		The main controller enters the power-saving mode.
Automatic shutdown*		The Main Power Switch is turned OFF when a specified period of time has passed (default: 4 hours) after the machine has entered sleep mode (excluding sleep 2).

*: In the case of a model without fax for EUR (MF623Cn)



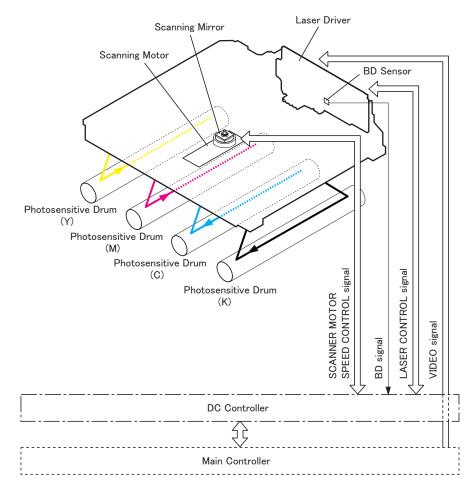
Laser Control System

Overview

The Laser Scanner system is to form a static latent image on the photosensitive drum based on the video signal sent from the Main Controller.

The Laser Scanner Unit is composed of the laser driver, the Scanner Motor Unit and other components, which are controlled based on signals input by the DC Controller.

The figure below shows the Laser Scanner Unit schematically.



Controls

Failure detection

- 1. Scanner Motor failures
 - The rotation does not reach the pre-defined value after a certain time elapsed from the Scanner Motor actuated.
 - The rotation failed to meet the tolerable range consecutively within a certain time during the Scanner Motor in drive.
 - Error Code: E110-0000
- 2. BD failures
 - · When out-of-range BD cycle is detected during printing.

Image Formation System

Overview

The image formation system holds the core function of this product to form toner images on paper.

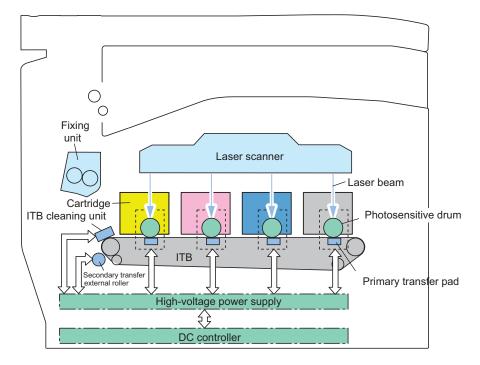
To form toner images, the DC controller controls various high-voltage power supply PCBs.

This product is a compact and high-speed color printing device that employs the 4-drum and intermediate transfer method.

The image formation system is composed of the following components.

- 4 cartridges
- ITB unit
- Secondary transfer external roller

The figure below shows the image formation system schematically.



Parts

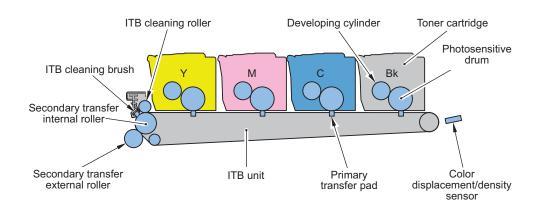
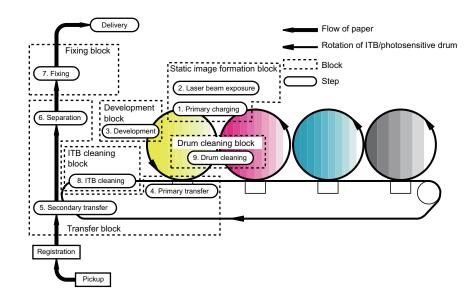


Image Forming Process

Overview

The image forming process of this product is composed roughly of 6 blocks and 9 steps.

	Block Step		Step	Description
1	1 Static latent image		Primary charging	Charge the photosensitive drum surface negatively.
forming		2	Laser beam exposure	Form a static latent image on the photosensitive drum.
2	Development	3	Development	Deposit toner to visualize the static latent image.
3	3 Transfer 4 Primary transfer 5 Secondary transfer		Primary transfer	Transfer the toner image on the photosensitive drum to the ITB.
			Secondary transfer	Transfer the toner image on the ITB to the paper.
		6	Separation	Separate the paper from the ITB.
4	Fixing	7	Fixing	Fix the toner image on the paper.
5	ITB cleaning	8	ITB cleaning	Clean the residual toner on the ITB.
6	Drum cleaning	9	Drum cleaning	Clean the residual toner on the photosensitive drum.



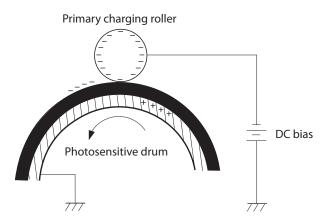
Block 1 : Static latent image forming block

This block consists of 2 steps to form a static latent image on the photosensitive drum.

• Step 1: Primary charging

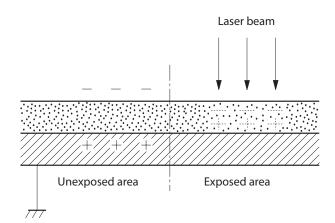
Before forming a static latent image, the photosensitive drum surface should be charged negatively.

This product employs the method to charge the photosensitive drum directly from the primary charging roller, applying the DC negative bias in order to negatively charge the photosensitive drum surface.



• Step 2: Laser beam exposure

Expose the photosensitive drum with laser beams to form a static latent image. The static latent image is formed by laser beam scanning that neutralizes or strips negative potentials on the scanned parts.



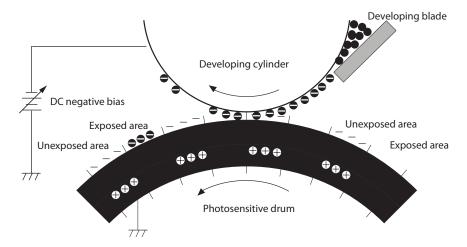
Block 2 : Development

The static latent image formed on the photosensitive drum is visualized by toner deposited in this block.

• Step 3: Development

Toner is deposited on the static latent image formed on the photosensitive drum.

Toner is then charged negatively through friction between the developing cylinder and the developing blade surface. The DC bias is applied to the developing cylinder to generate potential difference from the photosensitive drum. When the negatively charged toner contacts the photosensitive drum, it is deposited on the static latent image due to potential difference between the drum and the developing cylinder.



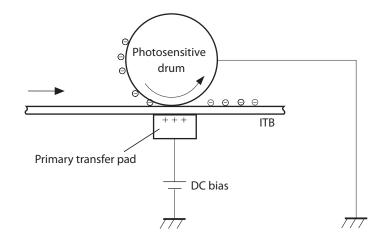
Block 3 : Transfer

The toner image on the photosensitive drum is transferred to paper through 3 steps in this block.

• Step 4: Primary transfer

Transfer the toner image on the photosensitive drum to the ITB.

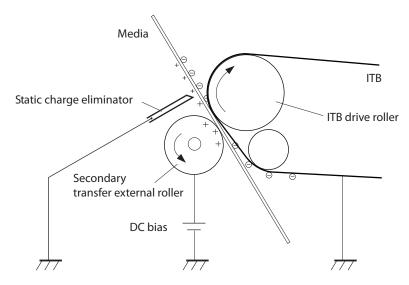
The DC positive bias is applied to the primary transfer pad to charge the ITB positively. By this, the negatively charged toner on the photosensitive drum is transferred to the ITB.



• Step 5: Secondary transfer

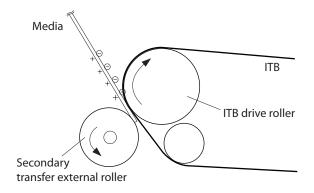
Transfer the toner image on the ITB to paper.

The DC positive bias is applied to the secondary transfer external roller to charge the paper positively. By this, the negatively charged toner image on the ITB is transferred to the paper.



• Step 6: Separation

Separate the paper from the ITB using paper elasticity and curvature of the ITB drive motor. To stabilize the paper delivery and image quality, use the static eliminator to decay the potential on the back of the paper after image transfer.

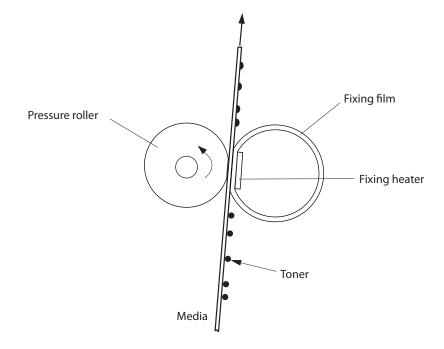


Block 4 : Fixing

The toner image is fixed on the paper in this block.

• Step 7: Fixing

This product employs the on-demand fixing method. By applying pressure and heat on the paper and the toner image on it, the toner is fused to develop the permanent image.

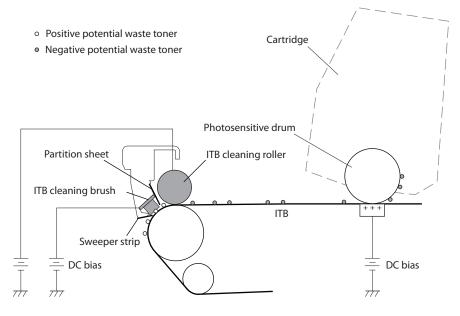


Block 5 : ITB Cleaning

The residual toner on the ITB surface is cleaned in this step.

• Step 8: ITB cleaning

The DC positive bias is applied to the ITB cleaning roller and the ITB cleaning brush to charge the collected toner positively. The positively charged collected toner is reversely transferred from the ITB to the photosensitive drum by the primary transfer pad.

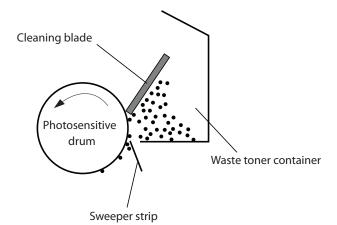


Block 6 : Drum Cleaning

The residual toner on the photosensitive drum is cleaned in this block.

Step 9: Drum cleaning

The cleaning blade scrapes off the residual toner on the photosensitive drum to collect into the cleaner container. Now the photosensitive drum is cleaned.



Controls

High-voltage power supply control

• Overview

The high-voltage power supply PCBs are to apply high-voltage bias to the primary charging roller, the primary transfer pad, the secondary transfer external roller, and the ITB cleaning unit. Such high-voltage bias is generated through control by the DC controller on the high-voltage power supply PCBs.

The figure below shows the high-voltage power source schematically.

Туре	Bias applied	Purpose	Applied to
Primary charging bias	DC negative	Charge the photosensitive drum surface negatively.	Primary charging roller (car- tridge)
Developing bias	DC negative	Deposit toner on the static latent image formed on the photosensitive drum.	Developing cylinder (cartridge)
Blade bias	DC negative	Adjust the charged toner amount on the developing cylinder.	Developing blade (cartridge)
Primary transfer bias	DC negative	Transfer the toner image on the photosensitive drum to the ITB.	Developing blade (cartridge)
Secondary transfer bias	DC positive	Transfer the toner image on the ITB to the paper.	Secondary transfer external roll-
	DC negative	Clean the secondary transfer external roller.	er
ITB cleaning brush bias	DC positive	Charge the toner on the ITB positively.	ITB cleaning brush
ITB cleaning roller bias	DC positive	Charge the toner on the ITB positively.	ITB cleaning roller

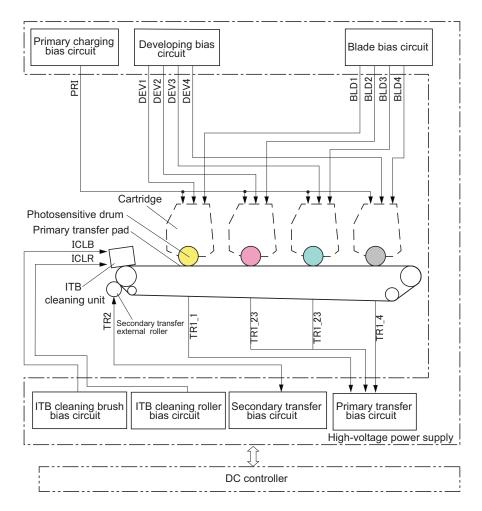
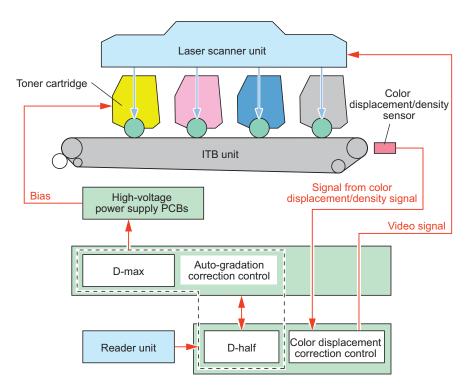


Image stabilization control

• Overview

This product controls image stabilization to avoid faulty images due to environmental changes, deteriorated photosensitive drum or toner, etc. The controls listed in the table below are executed when needed to stabilize image quality.

Control	Description
D-max control	Correct values of the primary charging bias and/or developing bias based on signals from the environ- ment sensor.
D-half control	Correct the gradation data in the main controller PCB based on signals from the color displacement / density sensor.
Color displacement correction control	Correct the video signal output timing based on signals from the color displacement / density sensor.
Auto-gradation correction con- trol	To stabilize the image gradation density characteristics, users execute full or quick correction, or copy image correction.



• Execution timing

The table below lists the execution timing and duration of each control.

No.	Execution timing	Duration	D-max	D-half	Color displacement cor- rection	Remarks
1	Power-ON	Approx.120 sec- onds	Yes	Yes	Yes	Executed at initial ro- tation
2	Toner cartridge replacement	Approx.120 sec- onds	Yes	Yes	Yes	Executed at initial ro- tation
3	Environmental changes	Approx.120 sec- onds	Yes	Yes	Yes	Executed after job completion detected by the environment sensor
4	After the pre-defined counts printed	Approx.120 sec- onds	Yes	Yes	Yes	Executed after job completion
5	After the pre-defined time elapsed	Approx.120 sec- onds	Yes	Yes	Yes	Executed after job completion
6	Resumed from sleep (after 8 hours or more)	Approx.60 sec- onds	Yes	Yes	-	Executed after job completion upon re- sumed
7	Full correction	Approx.60 sec- onds	Yes	Yes	-	Executed by users
8	Quick correction	Approx.60 sec- onds	Yes	Yes	-	
9	Copy image correction	Approx.60 sec- onds	Yes	Yes	-	

• Image density correction control (D-max control)

This control is to stabilize the print image density.

The DC controller PCB triggers D-max control under the pre-defined conditions.

1. Measure the density detection patterns for each color on the ITB.

- 2. To optimize the density of the measured patterns, control the primary charging bias and the developing bias. The image density correction control is triggered under the conditions below.
 - In the case of Menu > Adjustment/Cleaning > Auto Adjustment Settings > Auto Adjustment Image Regularly: OFF (default)
 - 1. At power ON (When the environmental change is great compared with the condition before turning OFF the power (more than +/-10 degC))
 - 2. When replacing the Toner Cartridge
 - 3. When the environmental change is great while not getting into the sleep state (more than +/-5 degC)
 - 4. After printing the specified number of sheet (every 500 sheets)
 - 5. After printing or after 300 min. since the execution of the image density correction
 - 6. At recovery from the sleep state (When the environmental change is great compared with the condition before getting into the sleep state (more than +/-10 degC))
 - 7. When the user commands execution of the calibration
 - In the case of Menu > Adjustment/Cleaning > Auto Adjustment Settings > Auto Adjustment Image Regularly: ON, the
 operation of (1) and (6) mentioned in the above conditions will be as follow:
 - 1'. Must execute at power ON
 - 6'. Must execute at recovery from the 8-hour (or longer) sleep state

• Image gradation correction control (D-half control)

This control is to correct the gradation by the main controller PCB based on the half-tone density measured by the DC controller PCB.

Upon D-max control completed, the DC controller PCB and the main controller PCB enter the following steps of D-half control.

- 1. The DC controller PCB measures the density detection patterns on the ITB by applying the primary charging bias and the developing bias optimized through D-max control to send the density data to the main controller PCB.
- 2. The main controller PCB corrects gradation based on the density data to reproduce the ideal half-tone images.

Color displacement control

This control is to correct color displacement due to variability of the laser units or toner cartridges.

The following displacements are corrected through this control.

- Horizontal scanning start position
- · Horizontal scanning magnification
- Vertical scanning start position

The DC controller PCB controls the color displacement/density sensor and the color displacement sensor under the conditions below.

In the case of Menu > Adjustment/Cleaning > Auto Adjustment Settings > Correct Color Mismatch when turned ON: OFF (default)

- 1. When completing the first job after power ON
- 2. When replacing the Toner Cartridge
- 3. After printing the specified number of sheet (every 150 sheets)
- 4. After the specified time has passed(only twice :100 min, and 300 min)
- 5. When completing the first job after recovering from the 8-hour (or longer) sleep state
- 6. When the user commands execution of the color displacement correction

In the case of Menu > Adjustment/Cleaning > Auto Adjustment Settings > Correct Color Mismatch when turned ON: ON, the operation of (1) and (5) mentioned in the above conditions will be as follow:

- 1'. At power ON, execute before executing a job
- 5'. At recovery from the 8-hour (or longer) sleep state, execute before executing a job

• Auto-gradation correction control

This control is to stabilize the image gradation density characteristic.

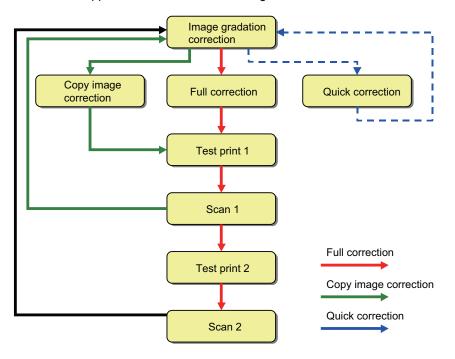
To execute this control, go to "Adjustment / Cleaning > Auto-gradation correction" in User mode. This control is performed in the following 3 approaches.

Item	Description	Test pattern	
		Output sheets	Туре
Full correction (PAS- CAL)	Gradation is corrected based on the grada- tion density read on output test patterns by the reader.		1: for error diffusion process 2: for screen
Quick correction	Gradation is corrected by D-half control not using output test patterns.	-	-

Item	Description	Test pattern	
		Output sheets	Туре
tion	Gradation of copy images is corrected based on the gradation density read on out- put test pattern by the reader.		for error diffusion process

Operational flow

Gradation is corrected either in the 3 approaches above in the following flow.



Toner cartridges

• Developing cylinder contact control

The control makes the developing cylinder engagement / disengagement to the photosensitive drum as required in the specified print mode (full color or monochrome).

By controlling the developing cylinder engagement to the photosensitive drum only when needed, this control effectively prevents the photosensitive drums from being deteriorated to maximize the service life.

The DC controller actuates the motor (MF700s: Developing motor, MF600s: Main motor) to switch the direction of the engagement / disengagement cam to contact / separate the developing cylinder to / from the photosensitive drum.

The DC controller controls the developing cylinder (engagement / disengagement) by regulating the main motor rotation upon detecting signals from the development home position sensor.

The state of the Developing Cylinder for each color (engagement / disengagement) differs depending on the condition of the Main Body.

Condition of the Main Body	Y	М	С	Bk		
Power OFF/Standby	Disengagement					
Monochrome print	Disengagement Engagement					
Full-color print		Engag	ement			

Related Error Code

• E015-000 (Error in developing roller contact)

Failed to detect changes in developing home position sensor signals within the pre-defined time after actuating motor (MF700s: Developing motor, MF600s: Main motor) to control the developing roller contact.

Transfer unit

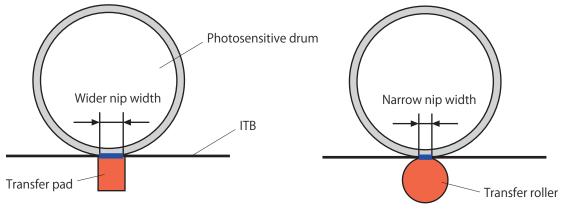
Pad transfer method

This product employs the pad transfer method in the primary transfer mechanism.

Enhanced image stabilization is achieved by replacing the conventional transfer roller with the transfer pad. The characteristic of the pad transfer method is:

• It maintains the wider nip to the photosensitive drum to increase transferability.

The figures below show the difference between the pad transfer method and the conventional roller transfer method schematically.



<Pad transfer method>

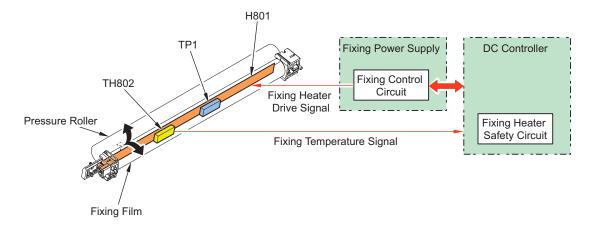
<Roller transfer method>

Fixing System



The fixing power supply controls temperatures of the Fixing Assembly.

This product employs the on-demand fixing method in the Fixing Assembly. The figure below shows the structure schematically.



Name	Symbol	Role
Fixing heater (100V, 120V, 230V)	T801	To heat the fixing film
Main thermistor	TH802	To detect the fixing heater temperature (center of the heater, contact ther- mistor)
Temperature fuse	FU1	To prevent abnormal temperature rise in the fixing heater

The temperature fuse is attached to the center of the fixing heater.

When the fixing heater comes to be abnormally hot, the temperature fuse is open to shut off the power supply to the fixing heater. The thermistor detects the fixing heater temperature to input the temperature detection signal to the DC controller.

Note that temperatures at heater ends are not detected in models of MF600 series with slower print speed.

The temperatures in the whole fixing assembly are controlled by the fixing control circuit and the fixing heater safety circuit based on commands from the DC controller.

Controls

Fixing Speed Control

Reduction of Throughput Based on Environment Temperature

Throughput is reduced according to the detected temperature of the Environment Sensor.

Detected temperature	Paper type	Upper limit of throughput
17 deg C or lower	Heavy paper 1	Upper limit of throughput becomes 5 ppm.
	Heavy paper 2	
13 deg C or lower	Plain paper 1	Upper limit of throughput becomes 12 ppm.
	Thin paper 1	
	Thin paper 2	
	Plain paper 2	Upper limit of throughput becomes 10 ppm.

Reduction of Throughput by Feeding Small Size Paper

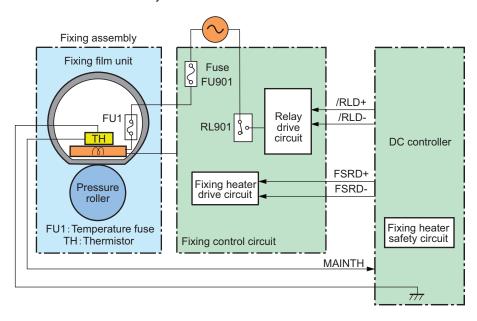
NOTE:

When paper size is specified by user, paper interval is increased from the 2nd sheet of the job. When a sensor detects that the paper size is small, paper interval is increased from 3rd or 4th sheet of the job. When small standard size paper other than A4 or LTR or custom paper size which paper width is less than 195 mm is specified, throughput is reduced according to the number of prints.

Paper Type	Print speed				
	1-5 sheets	6-10 Sheets	11-20 sheets	21-50 sheets	50 sheets
Plain paper 1 (60 to 74g/m ²) Plain paper 2 (75 to 90g/m ²)	8	6	5.5	4	2
Thick paper 1 (91 to 120 g/m ²) Thick paper 2 (121 to 163 g/	6	5	5	2	2
Coated paper 1 (100 to 110g/m ²)	5.5	5	5	2	2
Coated paper 2 (120 to 130g/m ²)	5	5	5	2	2
Coated paper 3 (155 to 165g/m ²)	4	4	4	2	2

Fixing temperature control

The fixing control circuit controls temperatures of the fixing heater to attain the respective target temperatures. The figure below shows this circuit schematically.



The DC controller monitors the fixing heater temperature detection signal (MAINTH) to output the respective fixing heater drive signals (FSRD+, FSRD-) depending on the detected temperatures. The fixing heater drive circuit controls the fixing heater based on the output signal to attain the target temperature in the fixing heater.

1. Start-up temperature control

This controls the fixing heater warm-up to the target temperature.

Different temperatures are targeted depending on elapsed time after the last print job, paper types or the environment.

Printing temperature control
 This controls the fixing film temperature during printing to maintain the target.
 Different temperatures are set in the fixing film depending on paper types.

Sheet-to-sheet temperature control
 This control lowers the sheet-to-sheet fixing heater temperature during continuous printing in the low-speed mode to prevent temperature rise on the pressure roller.
 Different sheet-to-sheet temperatures are set depending on sheet intervals or paper types.

Protective Control

This control is to detect abnormal temperature rise in the fixing assembly to shut off power supply to the fixing heater.

This product has the following 3 protective controls to prevent abnormal temperature rise in the fixing assembly.

DC controller

- Fixing heater safety circuit
- Temperature fuse

The descriptions below are the details of each protective control.

1. DC controller

When DC Controller monitors temperature of the central thermistor of the fixing heater and exceeds the pre-defined temperature, which is thought abnormally high temperature, therefore the drive signal (FSRD+, FSRD-) of the fixing heater is stopped outputting and the relay is turned off and the power distribution to the heater is stopped.

2. Fixing heater safety circuit

This circuit detects abnormal temperatures in the center of the fixing heater to shut off power supply to the heater.

3. Temperature fuse

When the temperature of the fixing heater abnormally rises, the temperature fuse is open to shut off power supply to the heater.

• 226 deg C or higher detected at the temperature fuse.

Failure detection

The DC controller determines failures of the fixing assembly under conditions below to stop the fixing heater drive signal output (FSRD+, FSRD-) and shut off relay and power supply to the heater. At the same time, it notifies the failure occurrence to the main controller.

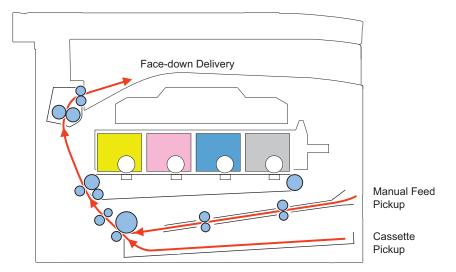
- 1. Start-up failure detection
 - The thermistor temperature does not exceed startup temperature 1 within the pre-defined time after start-up of the heater from the waiting status.
 - The thermistor temperature does not exceed startup temperature 2 within the pre-defined time after reaching startup temperature 1 upon start-up of the heater from the waiting status.
 - The thermistor temperature does not reach the target temperature within the pre-defined time after heater temperature control during initial rotation.
 - [Related error code] : E000-0000
- 2. Abnormally high temperature failure
 - The thermistor temperature remains at pre-defined temperature or higher for the pre-defined time. [Related error code] : E001-0000 main thermistor
- 3. Abnormally low temperature failure
 - The thermistor temperature remains at pre-defined temperature or lower within the pre-defined time after heater temperature control during printing.
 - [Related error code] : E003-0000 main thermistor
- 4. Fixing heater drive circuit failure
 - The zero-cross signal has not been detected for a certain times within the pre-defined time after power-ON.
 - The zero-cross signal is detected after power-ON but has not been detected continuously within the pre-defined time during printing.

[Related error code] : E004-0000

Pickup / Feed System

Overview

The Pickup / Feed System is responsible for paper pickup and delivery, made up with multiple rollers. The figure below shows the structure of the Pickup/Feed System schematically.



Pickup slot

Cassette Manual feed slot

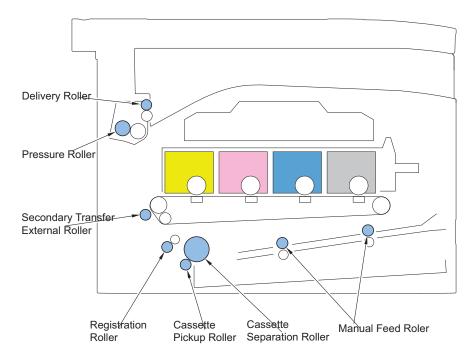
Delivery slot

Face-down tray

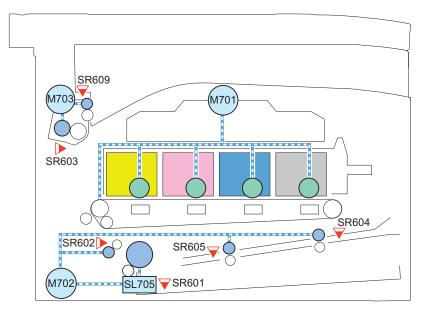
Automatic 2-sided

Not Available

Parts Configuration



Drive Configuration



Symbol	Name	Symbol	Name
M701:	Main Motor	SR601:	Cassette paper sensor
M702:	Pickup Motor	SR602:	Registration sensor
M703:	Fixing Motor	SR603:	Fixing arch sensor
SL705:	Cassette pickup solenoid	SR604:	Manual feed paper sensor
		SR605:	Manual feed pre-registration sensor
		SR609:	Fixing delivery sensor

Controls

Cassette paper feed

Roller separation method

This product employs the separation roller method to avoid multi-feeding. This method prevents multiple sheets from being fed by the driven separation roller. The separation roller is driven by the pickup roller.

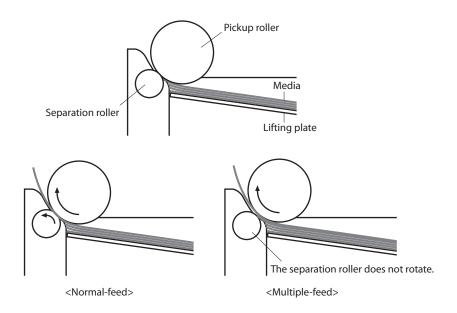
When normally operated

The separation roller is driven by the pickup roller to feed paper. By this, the separation roller rotates in the paper feed direction.

When multiple sheets are fed

Multiple sheets weaken friction between rollers, decaying the driving force conveyed from the pickup roller to the separation roller. This product has the mechanism to regulate the separation roller rotation, which stops the roller rotation at multi-feeding under weaker driving force conveyed from the pickup roller. This enables to avoid multi-feeding.

The figure below shows the multi-feeding prevention mechanism employed in this product.



Jam detection

Overview

This product has the paper sensors as listed below to detect paper level and paper feed status.

- Registration sensor
- · Manual feed pre-registration sensor
- · Fixing delivery sensor
- · Fixing arch sensor
- Cassette paper sensor
- The following jams are detected in this product.
- 1. Pickup delay jam
- 2. Pickup stationary jam
- 3. Fixing / delivery delay jam
- 4. Delivery stationary jam
- 5. Fixing seizure jam
- 6. Internal paper remaining jam
- 7. Open door jam

Delay jams

Pickup delay jam

This occurs when the leading edge of the paper is not detected by the registration sensor^{*} from the start of image formation to re-pickup.

* : SR602

Fixing / delivery delay jam

This occurs when the leading edge of the paper is not detected by the fixing delivery sensor * within the pre-defined duration after re-pickup.

* : SR609

Stationary jams

Pickup stationary jam

This occurs when the trailing edge of the paper is not detected by the registration sensor^{*} within the pre-defined duration after repickup.

* : SR602

Fixing / delivery stationary jam

This occurs when the trailing edge of the paper is not detected by the fixing delivery $sensor^{2}$ within the pre-defined duration after the trailing edge of the paper is detected by the registration sensor.²

*1 : SR602 *2 : SR609

• Other jams

Fixing seizure jam

This occurs when the fixing / delivery sensor (SR8) detected the leading edge of the paper but the sensor went off before starting the fixing / delivery stationary detection.

*:SR609

Internal paper remaining jam

When the sensor below detects "Paper Sensor" before-and-after Power on, Door close, Print operation.

- Registration sensor (SR602)
- Fixing arch sensor (SR603)
- Manual feed pre-registration sensor (SR605)
- Fixing delivery sensor (SR609)

Open door jam

This occurs when any of sensors detected paper in the device and the door opening is detected during print jobs.

Embedded RDS

Product Overview

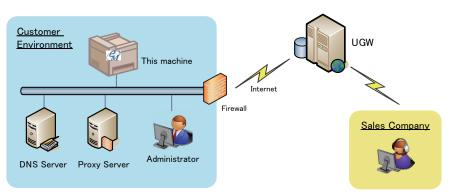
Overview

Embedded RDS (hereinafter referred to as E-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, thus allowing for e-Maintenance/ imageWARE Remote (Remote Diagnosis System).

The following device information/ status can be monitored.

- Parts counter
- Firmware info
- Service call error log
- Jam log
- · Alarm log
- · Status changes (Toner low/ out, etc.)

Since high confidentiality is required for the information shown above, it performs communication between this machine and the UGW using HTTPS/ SOAP protocol.



The e-Maintenance/ imageWARE Remote system configuration

Features and benefits

E-RDS embedded with a network module in advance can realize a front-end processing of e-Maintenance/ imageWARE Remote system without attaching any extra hardware equipment.

Service cautions

- After clearing the Main Controller PCB, initialization of the E-RDS setting (ERDS-DAT) and a communication test (COM-TEST) need to be performed. Failure to do so will result that the counter transmitting value to the UGW may become unusual. Also, after replacing the main controller board, all settings must be reprogrammed.
- 2. The following settings 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.
 - Set port number of UGW
 - [COPIER] > [FUNCTION] > [INSTALL] > [RGW-PORT]
 - Default : 443
- If the e-Maintenance/ imageWARE Remote contract of the device is invalid, be sure to turn OFF the E-RDS setting (E-RDS : 0).



Confirmation and preparation in advance

To monitor this machine with e-Maintenance/ imageWARE Remote, the following settings are required.

Advance preparations

The following network-related information needs to be obtained from the user's system administrator in advance.

Information item 1

IP address settings

- Automatic setting : DHCP
- · Manual setting : IP address, subnet mask and gateway address to be set

Information item 2

Is there a DNS server in use?

If there is a DNS server in use, find out the following.

- Primary DNS server address
- Secondary DNS server address

Information item 3

Is there a proxy server?

If there is a proxy server in use, find out the following.

- Proxy server address
- Port No. for proxy server

Information item 4

Is proxy server authentication required?

If proxy server authentication is required, find out the following.

· User name and password required for proxy authentication

• Network settings

Based on the results of the information obtained in "Advance preparations", make this machine network related settings. See Users' Guide for detailed procedures.

CAUTION:

When changes are made to the above-mentioned network settings, be sure to turn OFF and then ON the main power of this machine.

Steps to E-RDS settings

- 1. Start [SERVICE MODE].
- 2. Select [COPIER] > [FUNCTION] > [CLEAR] > [ERDS-DAT] and touch the [Yes].

NOTE:

This operation initializes the E-RDS settings to factory setting values. For the setting values to be initialized, see the section of "Initialization procedure" on page 49.

3. Select [COPIER] > [FUNCTION] > [INSTALL] > [ERDS].

4. Press the numeric key [1] on the control panel (the setting value is changed to 1) and touch the [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.

NOTE:

This initiates the communication test between the device and the UGW.

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

The communication test with UGW will be executed.

6. Select [COM-RSLT] .

If the communication is successful, "OK" is displayed. If "NG" (failed) appears, refer to the ""Troubleshooting"" on page 52 and repeat until "OK" is displayed.

NOTE:

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

- 1. Start [SERVICE MODE].
- 2. Select [COPIER] > [FUNCTION] > [CLEAR] > [ERDS-DAT] and touch the [Yes].

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]

COM-LOG Report

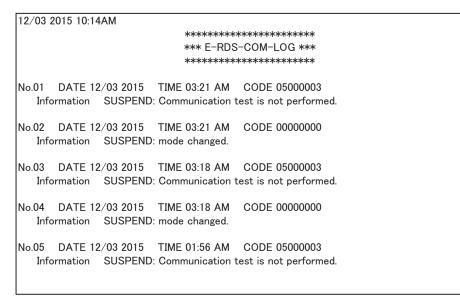
A report of communication error log information on five affairs can be output.

Report output procedure

1. Start [SERVICE MODE] .

2. Select [COPIER] > [FUNCTION] > [MISC-P] > [ERDS-LOG] and touch the [Yes].

Output sample





Q: In what case does a communication test with UGW fail?

Ans.

The following cases can be considered in the becoming "NG" case.

- Name resolution was failed due to an incorrect host name or DNS server has been halted.
- · Network cable is blocked off.
- Proxy server settings is not correct.

Q: When does E-RDS send counter information to UGW? How much data is sent?

Ans.

The schedule of data transmitting, the start time are determined by settings in the UGW side. The send time cannot be specified on the E-RDS side. Data is sent once every 16 hours. The data size of counter information is approx. 285 KB.

Q: Will data which failed to be sent due to an error in communication with UGW be resent?

Ans.

Data shown below will be resent.

- Jam log
- · Service call log
- Alarm log
- Browser information
 - It is resent only when the web browser option is enabled.

Data is resent endlessly (after 5, 10, 15, 20, 25, and 30 minutes since the occurrence of communication error; once 30 minutes have passed, it is resent at 30-minute intervals) until it is sent successfully. Resend continues even if the power is turned OFF and then ON.

Q: What is the upper limit of the number of COM-LOGs? What is the upper limit of the number of characters of error information displayed in a COM-LOG?

Ans.

Up to 5 log data can be saved.

Q: Although Microsoft ISA as a proxy server is introduced, the authentication check is failed. Can E-RDS adopt with Microsoft ISA?

Ans.

E-RDS must comply with "Basic" while "Integrated" authentication is used for Microsoft ISA (as default); therefore, authentication with E-RDS is available if you change the setting to "Basic" authentication on the server.

Q: Can I turn this machine power off during the e-Maintenance/ imageWARE Remote system operation?

Ans.

While operating the e-Maintenance/ imageWARE Remote system, the power of the device must be ON. If power OFF is needed, do not leave the device power OFF for long time.

It will become "Device is busy, try later" errors if the power supply of network equipment such as HUB is made prolonged OFF.

Q: Although a Service call error may not be notified to UGW, the reason is what?

Ans.

If a service technician in charge turns off the power supply of this machine immediately after error occurred once, It may be unable to notify to UGW because data processing does not take a time from the controller of this machine to NIC though, the data will be saved on the RAM.

If the power supply is blocked off while starting up, the data will be inevitably deleted.

Q: How does E-RDS operate while this machine is placed in the sleep mode?

Ans.

While being in Real Deep Sleep, and if data to be sent is in E-RDS, the system wakes up asleep, then starts to send the data to the UGW. The system also waits for completion of data transmission and let the device to shift to asleep status again. However, transition time to the Real Deep Sleep depends on the device, and the transition to sleep won't be done if the next data transmission will be done within 10 minutes.

Q: Is E-RDS compatible with Department counter?

Ans.

No, E-RDS does not support Department counter.

Q: Counter information could not be sent at the scheduled send time due to the power of this machine being turned OFF. Will the counter information be sent later when the power of this machine is turned ON?

Ans.

Yes. When a scheduled send such as that for counter could not be executed due to the power of this machine being turned OFF, etc., and the scheduled send time has already passed at power-on, the send is executed immediately. The following shows data send according to the status of this machine.

Send types	Status of this machine			
	Power ON	Power OFF	Sleep	
Scheduled send	Sent	Not sent *1	Sent *2	
Immediate send (Service call log / Alarm log / Jam log)	Sent	-	Sent *2	

*1: Immediately sent if the send time has already passed at power-on.

*2: Sent after recovery from sleep mode.

Q: What is the number of the network port used by E-RDS?

Ans.

The port number used by E-RDS for communication with UGW is "443".

If this setting is changed, an error occurs during communication with UGW. Therefore this setting should not be changed unless otherwise instructed.

Q: After the setting for E-RDS was made, the IP address of the host machine was changed. In that case, is it necessary to execute COM-TEST again?

Ans.

It is not necessary to execute COM-TEST again because the IP address used by E-RDS is automatically changed. However, it is necessary to turn OFF and then ON the main power of this machine to reflect the change in the setting of the IP address.

Troubleshooting

Symptom: A communication test (COM-TEST) results NG.

Cause:

Initial settings or network conditions is incomplete.

Remedy 1:

Check and take actions mentioned below.

- 1. Check network connections
 - Is the status indicator LED for the HUB port to which this machine is connected ON? YES: Proceed to Step 2.
 - NO: Check that the network cable is properly connected.
- 2. Confirm loop back address (* In case of IPv4)
 - Select [Settings/Registration] > [Preferences] > [Network] > [TCP/IP Settings] > [IPv4 Settings] > [PING Command], enter "127.0.0.1", and touch the [Start] button.

Does the screen display "Response from the host."?

YES: Proceed to Step 3.

NO: There is a possibility that this machine's network settings are wrong. Check the details of the IPv4 settings once more.

3. Confirmation from another PC connected to same network.

Request the user to ping this machine from a PC connected to same network. Does this machine respond? YES: Proceed to Step 4.

NO: Confirm the details of this machine's IP address and subnet mask settings.

4. Confirm DNS connection

(a) Select [Settings/Registration] > [Preferences] > [Network] > [TCP/IP Settings] > [DNS Settings] > [DNS Server Address Settings], write down the primary and secondary addresses of the DNS server, and touch the [Cancel] button.
 (b) Touch the [Up] button.

(c) [Select IPv4 Settings] > [PING Command], enter the primary DNS server noted down in step (a) as the IP address, and touch the [Start] button.

Does the screen display "Response from the host."?

YES: Proceed to Remedy 2.

NO: Proceed to step (d).

(d) Enter the secondary DNS server noted down in step (a) as the IP address, and then touch the [Start] button. Does the screen display "Response from the host."?

YES: Proceed to Remedy 2.

NO: There is a possibility that the DNS server address is wrong. Reconfirm the address with the user's system administrator.

Remedy 2:

Troubleshooting using communication error log (COM-LOG)

- 1. Start [SERVICE MODE].
- 2. Select [COPIER] > [FUNCTION] > [MISC-P] > [ERDS-LOG], and press [Yes] to execute report output of the communication error log information.
- 3. When a message is displayed, take an appropriate action referring to "Error code and strings" on page 53.

Symptom: A communication test results NG even if network setting is set properly.

Cause:

The network environment is inappropriate, or RGW-ADR or RGW-PORT settings for E-RDS have been changed.

Remedy:

The following points should be checked.

1. Check network conditions such as proxy server settings and so on.

- 2. Check the E-RDS setting values.
 - · Check the communication error log from COM-LOG.
 - Check whether RGW-ADR or RGW-PORT settings has changed. If RGW-ADR or RGW-PORT settings has changed, restore initial values. For initial values, see "Service cautions" on page 47.

Symptom: Registration information of the E-RDS machine was deleted from the device information on Web Portal, and then registered again. After that, if a communication test is left unperformed, the device setting in the UGW becomes invalid.

Cause:

When the registration information of the E-RDS machine is deleted, information related to E-RDS is also deleted. Therefore, when 7 days have passed without performing a communication test after registering the E-RDS machine again, the device setting becomes invalid.

Remedy:

Perform a communication test before the device setting becomes invalid.

Symptom: There was a log, indicating "Network is not ready, try later" in error details of COM-LOG list.

Cause:

A certain problem occurred in networking.

Remedy:

Check and take actions mentioned below.

- 1. Check networking conditions and connections.
- 2. Turn on the power supply of this machine and perform a communication test about 60 seconds later.

Symptom: "Unknown error" is displayed though a communication test (COM-TEST) has done successfully.

Cause:

It could be a problem at the UGW side or the network load is temporarily faulty.

Remedy:

Try again after a period of time. If the same error persists, check the UGW status with a network and UGW administrator.

Symptom: When a communication test (COM-TEST) is repeatedly executed, an error occurs.

Cause:

During communication conducted after execution of a COM-TEST, another COM-TEST was executed again.

Remedy:

When repeatedly executing COM-TEST, execute COM-TEST at intervals of 5 minutes or more.

Error code and strings

The following error information is displayed on the communication error log details screen. (Here, "server" means UGW.)

- The error information are displayed in the following form.
- [*] [Character strings] [Functional classification (Method name)] [Error details provided by UGW]

NOTE:

"*" is added to the top of the error text in the case of an error in communication test (method name: getConfiguration or communicationTest) only.

No.	Code	Character strings	Cause	Remedy
1	0000 0000	SUSPEND: mode changed.	Unmatched Operation Mode	Initialize the E-RDS setting (ERDS-DAT).
2		SUSPEND: Communication test is not performed.	Turning OFF and then ON the main power of this machine while the communication test had not been performed although E-RDS is enabled.	

2. Technical Explanation

No.	Code	Character strings	Cause	Remedy
3	0xxx 0003	Server schedule is not exist	Blank schedule data have been received from UGW.	Perform and complete a communication test (COM-TEST).
4	0xxx 0003	Communication test is not per- formed	Communication test has not completed.	Perform and complete a communication test (COM-TEST).
5	84xx 0003	E-RDS switch is set to OFF	A communication test has been attempted with the E-RDS switch being OFF. Set E-RDS switch (E-RDS) to 1, a form a communication test (COM-	
6	8600 0002 8600 0003 8600 0101 8600 0201 8600 0305 8600 0306 8600 0401 8600 0403 8600 0414 8600 0415	Event Registration is Failed	Processing (event processing) within the device has failed. If the error persists, replace the device software. (Upgrade)	
7	8700 0306	SRAM version unmatch!	Improper value is written in at the head of the NVMEM domain (nonvolatile memory domain) of E-RDS.	Turn the device OFF/ ON.
8	8700 0306	SRAM AeRDS version un- match!	Improper value is written in at the head of the NVMEM domain (nonvolatile memory domain) of Ae-RDS.	Turn the device OFF/ ON.
9	8xxx 0004	Operation is not supported	Method which E-RDS is not supporting attempted.	Contact help desk.
10	8xxx 0101	Server response error (NULL)	Communication with UGW has been successful, but an error of some sort has prevented UGW from responding. When (Null) is displayed at the end of the message, this indi- cates that there has been an er- ror in the HTTPS communication method.	Perform and complete a communication test (COM-TEST).
11	8xxx 0201 8xxx 0202 8xxx 0203 8xxx 0204 8xxx 0204	Server schedule is invalid	During the communication test, there has been some kind of error in the schedule values passed from UGW.	When the error occurs, report the details to the support section. After the UGW side has responded, try the communication test again.
12	8xxx 0207 8xxx 0208	Internal Schedule is broken	The schedule data in the inside of E-RDS is not right.	Perform a communication test (COM-TEST).
13	8xxx 0221	Server specified list is too big	Alarm/Alert filtering error: The number of elements of the list specified by the server is over re- striction value.	Alert filtering is not supported by UGW.
14	8xxx 0222	Server specified list is wrong	Alarm filtering error: Unjust value is included in the element of the list specified by the server.	Alert filtering is not supported by UGW.
15	8xxx 0304	Device is busy, try later	The semaphore consumption er- ror at the time of a communica- tion test.	Try again a communication test after a period of time.
16	8xxx 0709	Tracking ID is not match	When upgrading firmware, the TrackingID notified by Updater differs from the thing of UGW designates.	Obtain the sublog, and contact the support department of the sales company.
17	8xxx 2000	Unknown error	Some other kind of communica- tion error has occurred.	Perform and complete a communication test (COM-TEST).
18	8xxx 2001	URL Scheme error(not https)	The header of the URL of the reg- istered UGW is not in https for- mat.	Check that the value of URL of UGW (RGW- ADR) is https://a01.ugwdevice.net/ugw/agen- tif010.

No.	Code	Character strings	Cause	Remedy
19	8xxx 2002	URL server specified is illegal	A URL different to that specified by the UGW has been set.	Check that the value of URL of UGW (RGW- ADR) is https://a01.ugwdevice.net/ugw/agen- tif010.
20	8xxx 2003	Network is not ready, try later	Communication attempted with- out confirming network connec- tion, just after turning OFF and then ON the main power of this machine in which the network preparations are not ready.	Check the network connection, as per the initial procedures described in the troubleshooting. Perform a communication test (COM-TEST) about 60 seconds later, after turn on the device.
21	8xxx 2004	Server response error ([Hexa- decimal]) [Error detailed in UGW]*1	Communication with UGW has been successful, but an error of some sort has prevented UGW from responding.	Try again after a period of time. Check detailed error code (Hexadecimal) and [Error details in UGW] from UGW displayed af- ter the message.
22	8xxx 200A	Server connection error	 TCP/IP communication fault The IP address of device is not set. 	 Check the network connection, as per the initial procedures described in the trouble-shooting. When proxy is used, make the settings for proxy, and check the status of the proxy server.
23	8xxx 200B	Server address resolution er- ror	Server address name resolution has failed.	 Check that the value of URL of UGW (RGW-ADR) is https://a01.ugwdevice.net/ ugw/agentif010. Check that Internet connection is available in the environment.
24	8xxx 2014	Proxy connection error	Could not connect to proxy server due to improper address.	Check proxy server address / port and re-enter as needed.
25	8xxx 2015	Proxy address resolution error	Could not connect to proxy serv- er due to name resolution error of proxy address.	 Check that the proxy server name is correct. If the proxy server name is correct, check the DNS connection, as per the initial procedures described in the troubleshooting. Specify the IP address as the proxy server name.
26	8xxx 201E	Proxy authentication error	Proxy authentication is failed.	Check the user name and password required in order to login to the proxy, and re-enter as nee-ded.
27	8xxx 2028	Server certificate error	 No route certificate installed in device. Certificate other than that in- itially registered in the user's operating environment is being used, but has not been registered with the de- vice. The date and time of the de- vice is not correct. 	 Install the latest device system software. (Upgrade) Correctly set the date and time of the device. Execute CLEAR > CA-KEY, and turn OFF and then ON the device. (The CA certificate at the time of shipment is automatically installed.)
28	8xxx 2029	Server certificate verify error	The server certificate verification error occurred.	Check that the value of URL of UGW (RGW- ADR) is https://a01.ugwdevice.net/ugw/agen- tif010.
29	8xxx 2046	Server certificate expired	 The route certificate registered with the device has expired. Certificate other than that initially registered in the user's operating environment is being used, but has not been registered with the device. The device time and date is outside of the certificated period. 	If the device time and date are correct, upgrade

2. Technical Explanation

No.	Code	Character strings	Cause	Remedy
30	8xxx 2047	Server response time out	Due to network congestion, etc., the response from UGW does not come within the specified time. (HTTPS level time out)	If this error occurs when the communication test is being run or Service Browser is being set, try again after a period of time.
31	8xxx 2048	Service not found	There is a mistake in the UGW URL, and UGW cannot be ac- cessed. (Path is wrong)	Check that the value of URL of UGW (RGW- ADR) is https://a01.ugwdevice.net/ugw/agen- tif010.
32	8xxx 2052	URL error	The data which is not URL is in- putted into URL field.	Check that the value of URL of UGW (RGW- ADR) is https://a01.ugwdevice.net/ugw/agen- tif010.
33	8xxx 2058	Unknown error	SOAP Client fails to obtain SOAP Response. Possibility of a problem in UGW or of a temporary problem in the network load.	Perform and complete a communication test (COM-TEST).
34	8xxx 2063	SOAP Fault	SOAP communication error has occurred.	Check that the value of port number of UGW (RGW-PORT) is 443.
35	XXXX XXXX	Device internal error	An internal error, such as memo- ry unavailable, etc., has occurred during a device internal error phase.	Turn the device OFF/ ON. Or replace the device system software. (Up- grade)
36	XXXX XXXX	SUSPEND: Initialize Failure!	Internal error occurred at the ini- tiating E-RDS.	Turn the device OFF/ ON.

*1: [Hexadecimal]: indicates an error code returned from UGW. [Error details in UGW]: indicates error details returned from UGW.

Setting Information Export/Import Function (DCM)

Function Overview

This function (DCM: Device Configuration Management) is used to export/import setting value information in the host machine as a file (DCM file).

The following setting information is exported/imported.

- Setting information of [Settings/ Registration]
- Setting information of service mode
- Address Book

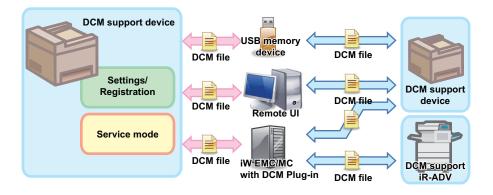
The DCM file is exported to a USB flash drive or PC local disk from the Control Panel or remote UI.

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 setting backup function, and when the file is imported to a different device, this can be used as a setting information migration function.

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 DCM, an exported file could be imported to the same device, but the DCM function enables import of an exported file to a different device.



NOTE:

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

Purpose for Using the Function

The purpose of using the DCM function is described below using three use cases.

Case	Export/ Import	Use Case
A	Export from and import to the same device	 Used as backup in preparation for a device failure Used as backup before changing settings
В	Export from and import to a different device of the same model	 Collectively migrate data when replacing the host machine Copy the settings to multiple devices (during kitting)
с	Export from and import to a different model	 Migrate the settings from the old model to the new model when replacing the host machine Migrate the settings of the base machine to a different model for a large-scale user

• Export from and Import to the Same Device (Case A)

In this use case, setting information is exported as backup in preparation for a device failure or backup before changing settings. Information of various settings is backed up just in case.



With conditions*4

• Export from and Import to a Different Device of the Same Model (Case B)

In this use case, the exported setting information is copied to a different device of the same model. This enables efficient installation in the case of installing multiple devices of the same model at a time (for example, kitting).



• Export from and Import to a Different Model (Case C)

In this use case, the exported setting information is copied to a device of a different model. Not that all the information that can be exported using DCM can be imported, but this is effective in the case of replacing an old device or copying the settings of the base machine in an environment where various models exist.



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

Information Exported/Imported as a DCM File

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.

Menu used Operation		Information exported		
		Setting values of menu options	Address book ^{*1}	Service mode setting values
[Settings/Registration]	Control panel	Yes (fixed) *2	Yes (fixed) *2	No
menu	Remote UI	Yes	Yes	With conditions ^{*3}
Service mode	Control panel	No	No	Yes
Service mode	Remote UI	No	No	Yes

Combinations of them are shown in the following table.

iW EMC/ MC DCM Plug-in iW EMC/ MC DCM Plug-in

*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.

Yes

Yes

*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 level 1 > COPIER > OPTION > USER > SMD-EXPT is set.

For items to be imported, refer to "List of Items Which Can Be Imported".

*4: It is included only in the data to be imported. If service mode data is not included in the data to be imported, the data is not imported.

• DCM File Storage Location

DCM files are saved in the following locations.

Operation	Menu used	Storage destination	
Operation Panel	[Settings/ Registration] menu	USB flash drive	
	Service mode		
Remote UI	[Settings/ Registration] menu	PC local disk	
Remote Of	Service mode		
DCM Plug-in DCM Plug-in Local disl		Local disk of the iW EMC/MC server	

Compatibility

Compatibility of DCM Files

Compatibility of DCM files differs depending on the export/import method as shown below.

Exported from	Imported to				
	iR series not supporting DCM	iR series supporting DCM		iR-ADV series	
	Remote UI	Via DCM Plug-in	Remote UI/USB	DCM Plug-in	Remote UI/ USB
iR series not supporting DCM	Yes	No	With conditions *1	No	No
iR series supporting DCM	No	Yes	Yes	With conditions *2	No
iR-ADV series	No	With conditions *2	No	Yes	Yes

Yes: Compatible

With conditions *1: Address books can be imported. Other information cannot be imported.

With conditions *2: A part of address book can be imported using ABM Plug-in. Other information cannot be imported. Compatibility of the DCM file imported via DCM Plug-in depends on the specification of DCM Plug-in. No: Incompatible

• 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".

Model	Serial number	Import Process
Same Same Items corresponding to Case A are imported. *1		
Same	Different *3	Items corresponding to Case B are imported. *1
Different	Different *3	Items corresponding to Case C are imported. *2
Different	Same	The file is judged to be invalid, and the process ends with an error.

*1: If the firmware version at the time of import differs from that at the time of export, predetermined corrective processing may be performed.

*2: Predetermined corrective processing may be performed.

*3: If a serial number is missing, the serial numbers are judged to be mismatched.

Specifications

Specifications Related to DCM Files

Overall Specifications Related to DCM Files

- The DCM file to be exported is created directly under the root of the USB flash drive.
- The file name is not case sensitive.
- The DCM file exported/imported from the Control Panel or service mode is named as shown below:
 - Control Panel: compact.dcm
 - Service mode: service.dcm
- When the file is exported, if a file of the same name exists in the export destination, the behavior will be as shown below.
 - When the file is exported from the Control Panel: A message asking whether the user wants to overwrite appears.
 - When the file is exported from service mode: The file is always overwritten.

Import of an Invalid File

- When an invalid file is imported, the process ends with an error.
- When a file which does not contain any data to be imported is imported, the process ends with an error.
- When there is an error in the imported file, the import process ends with an error in some cases.
- When there is an error in the imported data, the data is skipped and the import process continues.
- When the imported file fails to be read in the middle of the reading process or when the format is invalid, the import process is stopped. In that case, the machine is not rebooted. The data is not rolled back to the state it was before import.

• Encryption Password

- It is necessary to set a password during the export process because data such as the password of the address book set by the user are encrypted when the DCM file is exported/imported.
- The password must consist of 32 or less ASCII characters. A password exceeding 32 characters cannot be entered.
- If a wrong password is entered at import, the encrypted setting values cannot be decoded, and the import of the setting values end with an error.
- It is necessary to specify a password even when the data to be exported does not contain any data to be encrypted. However, in the case of export from service mode, it is not necessary to enter the password, and the password (28282828) is entered automatically.

Specifications Related to Department ID Management

- Department ID information is exported only when the Department ID management setting is enabled.Regardless of the state
 of the department ID management setting, the state of department ID management (enabled/disabled) and the system
 administrator information are exported. The department ID counter is not exported.
- When importing department ID information, the import process differs depending on the combination of the department ID set in the host machine and the department ID set in the data to be imported.

	"ID_1" has not been set in the host machine.	"ID_1" has been set in the host machine.
"ID_1" has been set in the data to be impor- ted.	Information of "ID_1" is imported. The department ID counter is "0".	Information excluding the department ID counter information of "ID_1" in the host ma- chine is imported.
"ID_1" has not been set in the data to be imported.	Not overwritten	Information of "ID_1" is deleted.
Department ID information has not been set in the data to be imported.	Not overwritten	Not overwritten

* ID_1 indicates a department ID.

Specifications during Execution of a Process

• Control Panel/Remote UI during a Process

- During export or import, a screen is displayed to prohibit operation from the Control Panel and remote UI.
- · During export or import, the keys excluding the energy saver key are disabled.

• Cancel during a Process

During export or import, the process cannot be canceled by user operation.

• Behavior when a Service Error Occurs

Even when a service error has occurred, export and import can be executed. However, this does not include errors which disable the DCM function.

• Export/import process from service mode

When performing export/import process from service mode, no error is displayed even when an error has occurred.

• Process after Import

After the setting file is imported using the DCM function, the following process is performed.

Import method	Process
Operation Panel	When the import process is completed successfully, the device will be restarted in 25 seconds.
	When the import process is completed successfully, the device will be restarted in 25 seconds. However, the device will not be restarted if only the address book is imported.
in	When the import process is completed successfully, the device will be restarted in 90 seconds (time for DCM Plug-in to obtain the import result). However, the device will not be restarted if only the address book is imported.

Specifications Related to Address Books

Import of an Address Book

- The address book is imported after the existing address book in the host machine has been cleared.
- If an error occurs during import, the data is not returned to the state of data cleared before import.
- Addresses which exceed the number of addresses that can be registered are not imported.
- · Group addresses which include addresses that were not imported are not registered.
- When entering the password for the address book from the Control Panel, if authentication is skipped, the address book is excluded from the process.

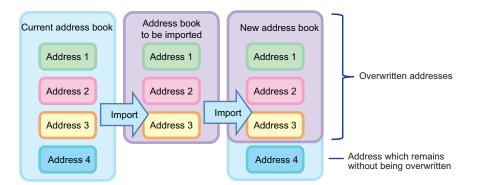
• Import of an Address Book in an Old Format

It is possible to import an address book in an old format that was exported from a device not supporting DCM, but it is not possible to export an address book in an old format.

There is no encryption password for an address book of an old format, but something needs to be entered, therefore a dummy password (enter anything and the passwords will match) needs to be entered.

The specifications of import of an address book in an old format are as shown below.

- When an address book is imported, the consistency is checked while reading a record, not that the consistency of all records is checked before import.
- If an accidental error (such as power discontinuity during import) occurs during import, the address book data which was partially imported does not remain and returns to the state before import.
- Passwords such as the password for SMB are not recorded in an address book in an old format. Therefore these passwords are not set in the address book to be imported.
- When an address book is imported, the data previously stored is not cleared but overwritten with the records stored in the new address book. In other words, after the address book is overwritten with a new address book, some of the previously stored records remain in some cases. All the registered call keys will be cleared.



- Even if other data (settings of menu, service mode, etc.) is specified as data to be imported, only the address book is imported.
- Addresses whose required field shown below is not filled in are skipped and the import process is executed. In that case, the import process is continued without displaying an error message.

Туре	Required field
Group address	Addresses included in the group
Fax	Dial number
E-Mail	E-mail address
File server (SMB)	Host name (IP address) protocol

- When an address book is imported, if there is a field with an attribute that is not any of the foregoing required fields and cannot be interpreted, import of only that attribute is skipped without abandoning the entire record. In that case, the import process is continued without displaying an error message.
- If the number of characters exceeds the upper limit at import, the excess characters are truncated on the right.

Limitations

Job Control

Do not execute the following processes during import or export.

- · Reception of a new job (Execution of calibration requested by the engine is allowed.)
- · Firmware update (during which faxes cannot be received due to busy line.)

If any of the following conditions is met, import/export is not executed.

- A job exists. (If calibration is requested by the engine, import/export is executed, ignoring the calibration job.)
- A firmware update is being performed.
- · Another import or export is being executed.

CAUTION:

During import, print/fax jobs from the PC are not received and are stuck in the spooler on the PC. Those jobs stuck in the spooler may not be printed properly after reboot of the host machine. In that case, those jobs have not been received and are not even recorded in history.

Control Characters

If the character string to be exported (e.g. a destination name in the address book) includes an ASCII control character (0x01-0x08, 0xb, 0xc, 0xe-0x19, or 0x7f), the character string excluding the control character is exported.

Corrective Processing

When data is imported, corrective processing of setting values (changing a process to another process that can be performed) may be performed. Corrective processing is performed to process data so that it can be used by the import destination device. Even when a setting value has been changed by corrective processing, the import process is treated as successful. Examples are shown below. Please note that the following cases are just examples, and how each item is processed by corrective processing varies depending on the initial settings and the service mode settings.

· When the length of the character string exceeds the limit

If a character string exceeding the length permitted by the import destination device is registered as, for example, a device name, only the length of the character string that can be registered on the import destination device is registered. The excess characters of the character string are deleted.

· When an out-of-range value is imported

Since the value is not comprehensible to the import destination device, the out-of-range value is not imported. In that case, the default value is not set but the originally registered value remains effective.

· When a necessary license or software option does not exist

In that case, the specification differs depending on the setting value. Depending on the type of the license or software option, import is executed without the license or software option in some cases. Therefore the following behaviors may occur.

Assumption

There is "Setting 1" (default value: 0) which is required only when "License 1" has been activated. Device A: "License 1" activated, "Setting 1" set to "1" Device B: "License 1" not activated, "Setting 1" set to "0" Device C: "License 1" activated, "Setting 1" set to "2"

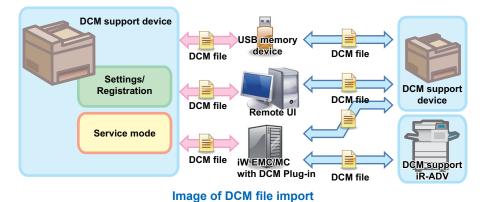
Operation

Export the settings of Device A and import them to Device B. Export the settings of Device B and import them to Device C.

Result

"Setting 1" of Device C is set to "1".

The foregoing behavior may occur because the setting value related to the license is not always the default value in Device B where the license has not been activated.



· When a necessary hardware option does not exist

The corrective processing performed is the same as that performed when an option has been changed during power discontinuity.

Example

Corrective processing performed when "Paper Source = Optional Deck" has been set as a favorite setting. Examples are shown below:

- When this connection is released due to a failure of the optional deck, etc.
- When a setting file exported from a device with an optional deck is imported to a device without an optional deckPlease note that this rule does not always apply to all the setting values.

Please note that this rule does not always apply to all the setting values.

Power Supply Control

When power discontinuity occurs during export or import, the following behavior occurs.

- The import process that had been performed before the power discontinuity remains reflected, and the data is not rolled back.
- When power discontinuity occurs during an export process, export is not executed. Moreover, since the import/export history is not retained in the host machine, no records remain.

Sleep Operation during a Process

The device does not enter deep sleep mode during import or export.

Although this is not disclosed to users, sleep mode internally changes according to the usage conditions of the host machine. Sleep mode ranges from energy saver mode where indicators such as LEDs are turned OFF to deep sleep mode where even the CPU stops.

Even if the conditions for entering deep sleep mode are met, the device does not enter deep sleep mode during export or import. If a process is started from remote UI or iW EMC/ MC, the host machine recovers to energy saver mode and performs the process. However, if service mode data is not included in the process, the process is started without waiting for recovery of the engine.

Procedure for Exporting/Importing Service Mode Setting Information

This chapter describes the procedure for exporting/importing the service mode setting information using DCM. For the procedure for exporting/importing [Settings/Registration] or address book data that can be performed by users, refer to the User's Guide (e-Manual).

Procedure for Export/Import Using the Control Panel (Service Mode)

By operating from the Control Panel (service mode), it is possible to export/import a file (service.dcm) containing service mode setting information from/to a USB flash drive connected to the host machine.

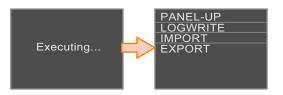
- The following USB flash drives can be used as the export destination.
 - USB flash drive in FAT 16 format (storage capacity: 2 GB)
 - USB flash drive in FAT 32 format (storage capacity: 32 GB)

Procedure for Export Using Service Mode

1. Connect a USB memory device to the USB memory port.



- 2. Enter service mode, and execute the following service mode.
 - COPIER > FUNCTION > SYSTEM > EXPORT
- 3. The message shown below which is displayed during the process will disappear. When the display has returned to the original state, remove the USB flash drive.



The procedure for removing the USB flash drive is shown below.

- 1. Press the [Reset] (///)key.
- 2. Press the [Status Monitor] ()key.
- 3. Tap "Device Status".
- 4. Tap "Remove Memory Media".
 - Wait until the message "The memory media can be safely removed." is displayed.
- 5. Remove the USB flash drive.

CAUTION:

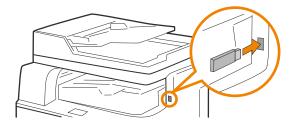
When exporting setting information using the [Settings/Registration] menu, if a USB flash drive is not connected, a message prompting the user to connect a USB flash drive will appear and the process cannot be executed. On the other hand, when this function is used, export can be executed without connecting a USB flash drive, therefore be sure to connect a USB flash drive before executing export.

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 procedure for exporting a setting information file.

Procedure for Import Using Service Mode

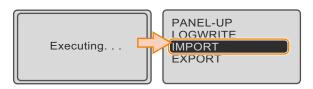
- 1. To the directory directly under the root of the USB flash drive, save a setting information file (service.dcm) to be imported.
- 2. Connect a USB memory device to the USB memory port.



- 3. Enter service mode, and execute the following service mode.
 - COPIER > FUNCTION > SYSTEM > IMPORT

SERVICE MODE	SPLAY	N	_
			PANEL-UP
FAX	FUNCTION	MISC-R	
TESTMODE	COUNTER	SYSTEM	EXPORT
		VIFFNC SPLMAN	

4. The message shown below which is displayed during the process will disappear. When the display has returned to the original state, remove the USB flash drive.



5. Enter service mode, and check that the setting information is reflected. This completes the procedure for importing a setting information file.

Procedure for Export/Import Using Remote UI (Service Mode)

By operating from the remote UI, it is possible to export/import a file containing service mode setting information from/to a USB flash drive connected to the host machine or the local disk on the PC.

• Procedure for Export Using Service Mode (Remote UI)

With this model, service mode can be used from the Remote UI.

Setting information can be exported by remote control by following the procedure shown below.

Since the information can be output only to a USB flash drive connected to the host machine, this is not strictly remote operation.

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)
- 1. Connect a USB memory device to the USB memory port.



2. Enter service mode, and execute the following service mode.

Access service mode (Remote UI), select COPIER > FUNCTION > SYSTEM > EXPORT, and click [EXEC].

		Top Log Out
SERVICE MODE		
COPIER	COPIER > FUNCTION > SYSTEM > EXPORT	
FEEDER	EXPORT	
FAX		EXEC
TESTMODE		
SERVICE REPORT		

CAUTION:

When it is executed without connecting USB flash drive, the error message is not displayed. Processing doesn't export anywhere of any though it seems to have completed it correctly. Confirm USB memory device has been connected before it executes it from the above-mentioned reason without fail. 3. The message shown below which is displayed during the process will disappear. When the display has returned to the original state, remove the USB flash drive.

SERVICE MODE	Тор	Log Out
COPIER	COPIER > FUNCTION > SYSTEM > EXPORT	
FEEDER		
FAX	Executing	
TESTMODE		
SERVICE REPORT		
CERTICE FEI ORT		

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 procedure for exporting a setting information file.

Procedure for Import Using Service Mode (Remote UI)

Import the service mode setting file that was exported to the USB flash drive in the previous procedure into the host machine.

- 1. To the directory directly under the root of the USB flash drive, save a setting information file (service.dcm) to be imported.
- 2. Connect a USB memory device to the USB memory port.



Enter service mode, and execute the following service mode.
 Access service mode (remote UI), select COPIER > FUNCTION > SYSTEM > EXPORT, and click [EXEC].

		Top Log Out
SERVICE MODE		
COPIER	COPIER > FUNCTION > SYSTEM > IMPORT	
FEEDER	IMPORT	
		EXEC CANCEL
FAX		
TESTMODE		
SERVICE REPORT		

4. The message shown below which is displayed during the process will disappear. When the display has returned to the original state, remove the USB flash drive.

SERVICE MODE	<u> </u>	op Log Out
COPIER	COPIER > FUNCTION > SYSTEM > IMPORT	
FEEDER		
FAX	Executing	
TESTMODE		
SERVICE REPORT		

5. Enter service mode, and check that the setting information is reflected.

This completes the procedure for importing a setting information file.

Procedure for Export/Import Using Remote UI ([System Management Settings] Menu)

• Procedure for Export Using 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

	SERVICE MODE				Top Log Out
	COPIER	COPIER > OPTION > USE	R		
	FEEDER	USER			
	FAX				BACK
		COUNTER1	113		
	TESTMODE	COUNTER2	501		
	SERVICE REPORT	COUNTER3	301		
		COUNTER4	0		
_)		COUNTER5	0		
FNRB-SW : 0 👖		COUNTER6	0		
SCALL-SW : 0	$\sim\sim\sim$	CNT-SW	\sim	$\sim\sim\sim$	$\sim\sim$
SCALLCMP : 0		SMD-EXPT	1		
PC-MODE : 0		ACC-SLP	1		
SMD-EXPT : 1		DRMRP-SW	0		
SMID-EXPT : I					

NOTE:

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

2. Exit service mode, and start the remote UI and log on in System Manager Mode.

Canon			
	System Manager Mode		
	System Manager ID:	7654321	
	System Manager PIN:	••••••	
0	End-User Mode		
	User Name:		
	End-users can log in with	out entering their user name.	
		Log In	
		Сору	right CANON INC. 2015

3. Click [Settings/ Registration].

🕈 ima	ageRUNNE	Device Name: Product Name (Ser Location:	ial Number):	Login User: 7654321 Log	Out
ያ Rem	ote UI: Portal			Mail to System Man	ager
		Last Updated:05	5/03 2015 01:35:38 PM 📢	Status Monitor/Cancel	
Device Bas	ic Information			\checkmark	
Device St	atus				- I
Printer:	Sleep mode.			Settings/Registration	
Scanner:	Sleep mode.			×7	
Fax:	Ready to send or rece	ive faxes.		Address Book	
Error Info	rmation				
No errors	S.				
Consumabl	es Information				
Paper Info	rmation				
Paper Sou	urce Paper	Level Paper Size	Paper Type		
Multi-Purp	iose Tray None				

4. Click[Import/Export] > [Export].

	To Portal Login User: 7654321 Log Out
↔ Settings/Registration	Mail to System Manager
Preferences	Settings/Registration: System Management Settings: Import/Export
Paper Settings	Import/Export
Sound Volume Control/Display	Import/Export
Settings	mport 2
Timer Settings	Export
Function Settings	
System Management Settings	
System Management	
Department ID Management	
Network Settings	
Security Settings	
Communication Management	
Settings/Forwarding Settings	
Import/Export	
Initialize Setting Information	
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5. Specify the settings for exporting, and click [Start Exporting].

Enter the encryption password and click [Start Exporting]. The menu options data will be exported.

	To Porta	I Login User:	7654321 Log	Out
Settings/Registration		Mail	I to System Man	ager
Preferences	Settings/Registration: System Management Settings: Import/Ex	xport > Export		
Paper Settings	Export			2
Sound Volume Control/Display Settings	Select the items to export, then click [Start Exporting].		Start Exporting	J
<u> </u>	Export Settings			
Timer Settings	Select Item to Export			
Function Settings	Address Book			
Common Settings	☐ Settings/Registration			
Copy Settings	I Service Mode			
Fax Settings	Encryption Password		2	
rax seulings	Encryption Password:			
Scan Settings	(Max 32 characters)			
Memory Media Print Settings	Confirm: (Max 32 characters)			
Printer Settings	R			
Output Report Settings				

Address Book

Select the check box to export the Address Book data.

Settings/ Registration

Select the check box to export the setting data of the menu options.

Service Mode

Selected and grayed out. If this item does not exist, perform step 1 again

Encryption Password

Enter up to 32 alphanumeric characters for the encryption password. For confirmation, enter the same password in the [Confirm:] text box. This password will be required when you import the data to the machine.

6. Follow the on-screen instructions to specify the location where the exported data is saved.

	Name: compact.dcm Type: dcm_auto_file, 5.22 KB From: 172.16.146.58
	Open Save Cancel
2	While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not open or save this file. What's the risk?

7. Enter service mode, and set the following item to "0".

• COPIER > OPTION > USER > SMD-EXPT

	SERVICE MODE			Top Log Out
	COPIER	COPIER > OPTION > USE	ER	
	FEEDER	USER		
	FAX	COUNTER1	113	BACK
	TESTMODE	COUNTER1	501	
	SERVICE REPORT	COUNTER3	301	
		COUNTER4	0	
		COUNTER5	0	
TNRB-SW :0		COUNTER6	0	
SCALL-SW : 0	$\sim\sim\sim$	<u>CNT-SW</u>	\sim	$\sim\sim\sim\sim\sim$
SCALLCMP : 0		SMD-EXPT	1	
PC-MODE : 0		ACC-SLP	1	
SMD-EXPT : 1		DRMRP-SW	0	
SIVID-EXPT . I				

NOTE:

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

• Procedure for Import Using 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

		SERVICE MODE			Top Log Out
		COPIER	COPIER > OPTION > USE	R	
		FEEDER	USER		
		FAX	COUNTER1	113	BACK
		TESTMODE	COUNTER2	501	
		SERVICE REPORT	COUNTER3	301	
			COUNTER4	0	
			COUNTER5	0	
TNRB-SW	:о П		COUNTER6	0	
SCALL-SW	:0	$\sim \sim \sim$	CNT-SW	\sim	$\sim\sim\sim\sim$
SCALLCMP	:0		SMD-EXPT	1	
PC-MODE	:0		ACC-SLP	1	
			DRMRP-SW	0	
SMD-EXPT	:1				

NOTE:

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

2. Exit service mode, and start the remote UI and log on in System Manager Mode.

Canon	
System	Manager Mode
s	System Manager ID: 7654321
s	System Manager PIN: ••••••
C End-Us	er Mode
ι ι	Jser Name:
E	End-users can log in without entering their user name.
	Log in
	Copyright CANON INC. 2015

3. Click [Settings/Registration].

🕈 image RU	NNER	Device Name: Product Name (Seri Location:	al Number):	Login User: 7654321 Log Out
😫 Remote UI: Port	tal			Mail to System Manager
		Last Updated:05/	03 2015 01:35:38 PM 📢	Status Monitor/Cancel
Device Basic Information	L.			\checkmark
Device Status				
Printer: O Sleep mode	2.			
Scanner: O Sleep mode	e.			NY C
Fax: OReady to se	end or receive faxe	9S.		Address Book
Error Information				
No errors.				
Consumables Information	ı			
Paper Information				
Paper Source	Paper Level	Paper Size	Paper Type	
Multi-Purpose Tray	None			

4. Click[Import/Export] > [Import].

	To Portal	Login User:	7654321 Log Out
Settings/Registration		Mail	to System Manager
Preferences	Settings/Registration: System Management Settings: Import/Export		
Paper Settings	Import/Export		
Sound Volume Control/Display	Import/Export		
Settings	Import 2		
Timer Settings	Export		
Function Settings		~ ~	~ ~
System Management Settings		\sim	/ / /
System Management			
Department ID Management			
Network Settings			
Security Settings			
Communication Management			
Settings/Forwarding Settings			
Import/Export			
Initialize Setting Information			
		Соруг	ight CANON INC. 2015

5. Specify the settings for Importing, and click [Start Import].

Enter the encryption password and click [Start Import]. The menu options data will be Imported.

	Το Ρο	rtal Login User:	7654321 Log Out
Settings/Registration		Mail	I to System Manager
Preferences	Settings/Registration: System Management Settings: Impor	/Export > Import	
Paper Settings	Import		
Sound Volume Control/Display Settings	Specify the file to import and the necessary settings, then o Importing]. Restart the device after import is complete.	lick [Start	Start Importing
Timer Settings	Import Settings		1
Function Settings	File Path:		Browse
Common Settings	Decryption Password:		
Copy Settings	Select Item to Import		
Fax Settings	Address Book		
Scan Settings	Settings/Registration		
Memory Media Print Settings	Service Mode		
Printer Settings			

[Browse..]button

Click to select the file to import.

Decryption Password

Enter up to 32 alphanumeric characters for the password that was set when the file was exported.

Address Book

Select the check box to import the Address Book data.

Address Book PIN

If the Address Book PIN is set, enter the PIN in the [Address Book PIN:] text box. Setting a PIN for Address Book

Settings/Registration

Select the check box to import the setting data of the menu options.

6. A dialog box asking whether the user wants to execute import will appear. Click [OK].



7. A message will appear to indicate that the process has been completed. Click the [OK] button.



8. Restart the host machine, enter service mode, and then check that the setting information is reflected.

9. Enter service mode, and set the following item to "0".

• COPIER > OPTION > USER > SMD-EXPT

	SERVICE MODE			Top Log Out
	COPIER	COPIER > OPTION > USE	ER	
	FEEDER	USER		
	FAX			BACK
	TESTMODE	COUNTER1 COUNTER2	113 501	
	SERVICE REPORT	COUNTER3	301	
		COUNTER4	0	
		COUNTER5	0	
TNRB-SW : 0 👖		COUNTER6	0	
SCALL-SW : 0	$\sim\sim\sim$	CNT-SW	\sim	$\sim\sim\sim\sim\sim$
SCALLCMP : 0		SMD-EXPT	1	
PC-MODE : 0		ACC-SLP	1	
		DRMRP-SW	0	
SMD-EXPT : 1				

NOTE:

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

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)

Settings/Registration Basic Information

• Preferences

Setting Information	Case A	Case B	Case C
Volume Settings			
Fax Volume	Yes	Yes	Yes
Ring Tone	Yes	Yes	Yes
TX Done Tone	Yes	Yes	Yes
RX Done Tone	Yes	Yes	Yes
Scanning Done Tone	Yes	Yes	Yes
Entry Tone	Yes	Yes	Yes
Invalid Entry Tone	Yes	Yes	Yes
Restock Supplies Tone	Yes	Yes	Yes
Warning Tone	Yes	Yes	Yes
Job Done Tone	Yes	Yes	Yes
Energy Saver Alert	Yes	Yes	Yes
Original in Feeder Detection Tone	Yes	Yes	Yes
Display Settings			
Default Screen after Startup/Restoration	Yes	Yes	Yes
Language	Yes	Yes	Yes

Setting Information	Case A	Case B	Case C
Remote UI Language	Yes	Yes	Yes
Brightness	Yes	Yes	Yes
Invert Screen Colors	Yes	Yes	Yes
Millimeter/Inch Entry Switch	Yes	Yes	Yes
Gram/Pound Switch	Yes	Yes	Yes
Message Display Time	Yes	Yes	Yes
Scrolling Speed	Yes	Yes	Yes
Cursor Movement Type	Yes	Yes	Yes
English Keyboard Layout	Yes	Yes	Yes

• Timer Settings

Setting Information	Case A	Case B	Case C
Date/Time Settings		l.	
Date Format	Yes	Yes	Yes
Time Format	Yes	Yes	Yes
Time Zone	Yes	Yes	Yes
Daylight Saving Time Settings	Yes	Yes	Yes
Start	Yes	Yes	Yes
End	Yes	Yes	Yes
Auto Sleep Time	Yes	Yes	Yes
Auto Reset Time	Yes	Yes	Yes
Function After Auto Reset	Yes	Yes	Yes
Auto Offline Time	Yes	Yes	Yes

Common Settings

Setting Information	Case A	Case B	Case C
Drawer Auto Selection On/Off			1
Сору			
Multi-Purpose Tray	Yes	Yes	Yes
Drawer 1	Yes	Yes	Yes
Printer	·		*
Drawer 1	Yes	Yes	Yes
Fax	·		*
Multi-Purpose Tray	Yes	Yes	Yes
Drawer 1	Yes	Yes	Yes
Other	•		*
Multi-Purpose Tray	Yes	Yes	Yes
Drawer 1	Yes	Yes	Yes

Copy Settings

Setting Information	Case A	Case B	Case C
Change Default Settings	Yes	Yes	No

• Fax Settings

Setting Information	Case A	Case B	Case C
Basic Settings			
Register Unit Telephone Number			
Telephone Number	Yes	Yes	No
Select Line Type	Yes	Yes	Yes
Pulse	Yes	Yes	Yes
Tone	Yes	Yes	Yes

Setting Information	Case A	Case B	Case C
Off-Hook Alarm	Yes	Yes	Yes
Communication Management Settings			I
TX Start Speed	Yes	Yes	Yes
RX Start Speed	Yes	Yes	Yes
TX Function Settings			I
Change Default Setting	Yes	Yes	Yes
Resolution	Yes	Yes	Yes
Density	Yes	Yes	Yes
Sharpness	Yes	Yes	Yes
Register Unit Name (Fax)	Yes	Yes	Yes
ECM TX	Yes	Yes	Yes
Set Pause Time	Yes	Yes	Yes
Auto Redial	Yes	Yes	Yes
Number of Times to Redial	Yes	Yes	Yes
Redial Interval	Yes	Yes	Yes
Redial When Error Occurs	Yes	Yes	Yes
TX Terminal ID	Yes	Yes	Yes
Print Position	Yes	Yes	Yes
Mark Number as:	Yes	Yes	Yes
Check Dial Tone Before Sending	Yes	Yes	Yes
Allow Fax Driver TX	Yes	Yes	Yes
Confirm Entered Fax Number	Yes	Yes	Yes
Restrict Sequential Broadcast	Yes	Yes	Yes
RX Function Settings			
ECM RX	Yes	Yes	Yes
ncoming Ring	Yes	Yes	Yes
imes	Yes	Yes	Yes
Remote RX	Yes	Yes	Yes
specific ID number	Yes	Yes	Yes
Switch to Auto RX	Yes	Yes	Yes
Switch to Auto RX	Yes	Yes	Yes
Memory Lock Settings			
Memory Lock PIN	Yes	Yes	Yes
Report Print	Yes	Yes	Yes
Memory Lock Time	Yes	Yes	Yes
Memory Lock Start Time	Yes	Yes	Yes
Memory Lock End Time	Yes	Yes	Yes
RX Print Settings	I	1	1
Ratio	Yes	Yes	Yes
Direction	Yes	Yes	Yes
RX Page Footer	Yes	Yes	Yes
Continue Printing When Amount in Cartridge Is Low	Yes	Yes	Yes
Forwarding Settings			1
Print Images	Yes	Yes	Yes
Store Images in Memory	Yes	Yes	Yes

Scan Settings

Setting Information	Case A	Case B	Case C
USB Memory Settings			
Change Default Settings	Yes	Yes	Yes
Scan Size	Yes	Yes	Yes
File Format	Yes	Yes	Yes
Encryption Level			

Setting Information	Case A	Case B	Case C
Digital Signatures			
Density	Yes	Yes	Yes
Original Orientation	Yes	Yes	Yes
Original Type	Yes	Yes	Yes
Sharpness	Yes	Yes	Yes
Data Size	Yes	Yes	Yes
E-Mail Settings	ļ	I	Į
Change Default Settings	Yes	Yes	Yes
Scan Size	Yes	Yes	Yes
File Format	Yes	Yes	Yes
Encryption Level	Yes	Yes	Yes
Digital Signatures	Yes	Yes	Yes
Density	Yes	Yes	Yes
Original Orientation	Yes	Yes	Yes
Original Orientation	Yes	Yes	Yes
Sharpness	Yes	Yes	Yes
Data Size	Yes	Yes	Yes
Subject	Yes	Yes	Yes
Message	Yes	Yes	Yes
Reply To	Yes	Yes	Yes
Priority	Yes	Yes	Yes
I-Fax Settings			
TX Function Settings			
Change Default Settings	Yes	Yes	Yes
Scan Size	Yes	Yes	Yes
Density	Yes	Yes	Yes
Sharpness	Yes	Yes	Yes
Message	Yes	Yes	Yes
Reply To	Yes	Yes	Yes
TX Terminal ID	Yes	Yes	Yes
Print Position	Yes	Yes	Yes
RX Print Settings			
RX Print Size	Yes	Yes	Yes
File Settings			
Change Default Settings			
Scan Size	Yes	Yes	Yes
File Format	Yes	Yes	Yes
Density	Yes	Yes	Yes
Original Orientation	Yes	Yes	Yes
Original Type	Yes	Yes	Yes
Sharpness	Yes	Yes	Yes
Data Size	Yes	Yes	Yes
Output File Image Settings			I
YCbCr TX Gamma Value	Yes	Yes	No
PDF (Compact) Image Quality Level		1	1
Image Level in Text/Photo Mode or Photo Mode	Yes	Yes	Yes
Image Level in Text Mode	Yes	Yes	Yes
	I	I	1
OCR (Text Searchable) Settings			

Memory Media Print Settings

Setting Information	Case A	Case B	Case C
Change Default Settings	Yes	Yes	Yes

Setting Information	Case A	Case B	Case C
File Sort Default Settings	Yes	Yes	Yes
File Name Display Format	Yes	Yes	Yes
Default Display Settings	Yes	Yes	Yes

Printer Settings

Setting Information	Case A	Case B	Case C
Prioritize Driver Settings When Printing	Yes	Yes	Yes
Multi-Purpose Tray	Yes	Yes	Yes
Drawer 1	Yes	Yes	Yes
Paper Size Override	Yes	Yes	Yes

Adjustment/Maintenance

Setting Information	Case A	Case B	Case C
Auto Correction Settings			
Auto Adjust Image Regularly	Yes	Yes	No
Correct Print Color Mismatch When Main Power is ON	Yes	Yes	No
Display Timing for Cartridge Preparation Notification			
Auto	Yes	Yes	No
Custom	Yes	Yes	No
Black Text Processing			
Feeder	Yes	Yes	Yes
Platen Glass	Yes	Yes	Yes
Special Processing	•		
Special Paper Processing			
Manual Back Side Settings (for 2-Sided Only)			
Multi-Purpose Tray	Yes	Yes	No
Drawer 1	Yes	Yes	No
Rough Paper Settings			
Multi-Purpose Tray	Yes	Yes	No
Drawer 1	Yes	Yes	No
Envelope Cling Prevention	Yes	Yes	No
Envelope Switch	Yes	Yes	No
Special Mode P	Yes	Yes	No

System Management Settings

System Manager Information Settings

Setting Information	Case A	Case B	Case C
System Manager ID and PIN			
System Manager ID	Yes	Yes	Yes
System Manager PIN	Yes	Yes	Yes
System Manager Name	Yes	Yes	Yes
Device Information Settings			
Device Name	Yes	No	No
Location	Yes	No	No
Display Consumables Information (RUI/Toner Status)			
Display Consumables Purchase Button (RUI)	Yes	Yes	Yes
Toner Status Settings	Yes	Yes	Yes

• Setting the Department ID Management

Setting Information	Case A	Case B	Case C
Department ID Management	Yes	Yes	Yes
Register New Department	Yes	Yes	Yes
Department ID	Yes	Yes	Yes
Set PIN	Yes	Yes	Yes
Restrict Functions	Yes	Yes	Yes
Black & White Copy	Yes	Yes	Yes
Color Copy	Yes	Yes	Yes
Black & WhitePrint	Yes	Yes	Yes
Color Print	Yes	Yes	Yes
Scan	Yes	Yes	Yes
Fax	Yes	Yes	Yes
Department ID Management			•
Allow Print Jobs with Unknown IDs	Yes	Yes	Yes
Allow Scan Jobs with Unknown IDs	Yes	Yes	Yes
Allow Black & White Copy Jobs	Yes	Yes	Yes

Network Settings

TCP/IP Settings

Setting Information	Case A	Case B	Case C
IPv4 Settings		1	
Auto IP	Yes	Yes	Yes
Select Protocol	Yes	Yes	Yes
IP Address	Yes	No	No
Subnet Mask	Yes	Yes	Yes
Gateway Address	Yes	Yes	Yes
Primary DNS Server	Yes	Yes	Yes
Secondary DNS Server	Yes	Yes	Yes
DNS Host Name/Domain Name Settings	Yes	No	No
Host Name	Yes	No	No
Domain Name	Yes	No	No
DNS Dynamic Update Settings	Yes	Yes	Yes
DNS Dynamic Update	Yes	Yes	Yes
DNS Dynamic Update Interval	Yes	Yes	Yes
Use mDNS	Yes	No	No
mDNS Name	Yes	No	No
DHCP Option Settings		ł	
Acquire Host Name	Yes	Yes	Yes
DNS Dynamic Update	Yes	Yes	Yes
Acquire DNS Server Address	Yes	Yes	Yes
Acquire Domain Name	Yes	Yes	Yes
Acquire WINS Server Address	Yes	Yes	Yes
Acquire SMTP Server Address	Yes	Yes	Yes
Acquire POP Server Address	Yes	Yes	Yes
IPv6 Settings	1	1	1
Use IPv6	Yes	Yes	Yes
Use Stateless Address	Yes	Yes	Yes
Use Manual Address	Yes	No	No
IP Address	Yes	No	No
Prefix Length	Yes	No	No
Default Router Address	Yes	No	No
Use DHCPv6	Yes	Yes	Yes

Setting Information	Case A	Case B	Case C
DNS Server Settings	Yes	Yes	Yes
Primary DNS Server	Yes	Yes	Yes
Secondary DNS Server	Yes	Yes	Yes
DNS Host Name/Domain Name Settings	Yes	No	No
Use IPv4 Host/Domain	Yes	No	No
Host Name	Yes	No	No
Domain Name	Yes	No	No
DNS Dynamic Update Settings	Yes	Yes	Yes
DNS Dynamic Update	Yes	Yes	Yes
Register Manual Address	Yes	Yes	Yes
Register Stateful Address	Yes	Yes	Yes
Register Stateless Address	Yes	Yes	Yes
DNS Dynamic Update Interval	Yes	Yes	Yes
Use mDNS	Yes	No	No
Use Same mDNS Name as IPv4	Yes	No	No
mDNS Name	Yes	No	No
DHCP Option Settings			
Acquire DNS Server Address	Yes	Yes	Yes
Acquire Domain Name	Yes	Yes	Yes
WINS Settings	100	100	100
WINS Resolution	Yes	Yes	Yes
WINS Server Address	Yes	Yes	Yes
LPD Settings	105	103	105
LPD Print Settings	Yes	Yes	Yes
RX Timeout	Yes	Yes	Yes
RAW Settings	165	163	163
RAW Print Settings	Yes	Yes	Yes
RX Timeout	Yes	Yes	Yes
WSD Settings	165	163	163
WSD Print Settings			
Use WSD Print	Yes	Yes	Yes
Use WSD Browsing	Yes	Yes	Yes
WSD Scan Settings	165	165	165
Use WSD Scan	Yes	Yes	Yes
Use Computer Scan	Yes	Yes	Yes
Use Multicast Discovery	Yes	Yes	Yes
Use FTP PASV Mode	Yes	Yes	Yes
Use HTTP	Yes	Yes	Yes
Port Number Settings	Tes	res	res
LPD	Yes	Yes	Yes
LPD			Yes
НТТР	Yes Yes	Yes	Yes
POP3	Yes		
		Yes	Yes Yes
HTTP	Yes		
SMTP	Yes	Yes	Yes
SNMP	Yes	Yes	Yes
WSD Multicast Discovery	Yes	Yes	Yes
Multicast Discovery	Yes	Yes	Yes
MTU Size	Yes	Yes	Yes
IPP Print Settings			
Use IPP Printing	Yes	Yes	Yes
Use SSL	Yes	Yes	Yes
Network Link Scan Settings			
Use Network Link Scan	Yes	Yes	Yes

Setting Information	Case A	Case B	Case C
SNMP Settings	1	•	
Use SNTP	Yes	Yes	Yes
Polling Interval	Yes	Yes	Yes
NTP Server Name	Yes	Yes	Yes
Multicast Discovery Settings	1		
Respond to Discovery	Yes	Yes	Yes
Scope Name	Yes	Yes	Yes
Sleep Mode Notification Settings			
Notify	Yes	Yes	Yes
Port Number	Yes	Yes	Yes
Number of Routers to Traverse	Yes	Yes	Yes
Notification Interval	Yes	Yes	Yes

Google Cloud Print Settings

Setting Information	Case A	Case B	Case C
Using Google Cloud Print	Yes	Yes	Yes
Local Print	Yes	Yes	Yes
Server Connection Checking Interval	Yes	Yes	Yes
Verify Server Certificate	Yes	Yes	Yes
Add CN to Verification Items	Yes	Yes	Yes

Proxy Settings

Setting Information	Case A	Case B	Case C
Use Proxy	Yes	Yes	Yes
HTTP Proxy Server Address	Yes	Yes	Yes
HTTP Proxy Server Port Number	Yes	Yes	Yes
Use Proxy within Same Domain	Yes	Yes	Yes
Use Proxy Authentication	Yes	Yes	Yes
User Name	Yes	Yes	Yes
Password	Yes	Yes	Yes

Configuring E-mail/I-Fax Communication Settings

Setting Information	Case A	Case B	Case C
SMTP Server	Yes	Yes	Yes
E-Mail Address	Yes	Yes	Yes
POP Server	Yes	Yes	Yes
User Name	Yes	Yes	Yes
Password	Yes	Yes	Yes
POP RX	Yes	Yes	Yes
POP Interval	Yes	Yes	Yes
Setting up authentication before sending and encrypted	communication with the server		
Use POP Authentication Before Sending	Yes	Yes	Yes
Use APOP Authentication	Yes	Yes	Yes
Use SMTP Authentication (SMTP AUTH)	Yes	Yes	Yes
User Name	Yes	Yes	Yes
Password	Yes	Yes	Yes
Use SSL for SMTP	Yes	Yes	Yes
Verify Certificate	Yes	Yes	Yes
Add CN to Verification Items	Yes	Yes	Yes
Use SSL for POP	Yes	Yes	Yes
Verify Certificate	Yes	Yes	Yes
Add CN to Verification Items	Yes	Yes	Yes

SMB Settings

Setting Information	Case A	Case B	Case C
NetBIOS Name	Yes	No	No
Workgroup Name	Yes	No	No

SNMP Settings

Setting Information	Case A	Case B	Case C
SNMPv1 Settings			
Use SNMPv1	Yes	Yes	Yes
Use Community Name 1	Yes	Yes	Yes
Community Name 1	Yes	Yes	Yes
Use Community Name 2	Yes	Yes	Yes
Community Name 2	Yes	Yes	Yes
MIB Access Permission 1	Yes	Yes	Yes
MIB Access Permission 2	Yes	Yes	Yes
Use Dedicated Community	Yes	Yes	Yes
Dedicated Community Settings	Yes	Yes	Yes
Specify SNMPv3 settings			
Use SNMPv3	Yes	Yes	Yes
Enable User			
User Name	Yes	Yes	Yes
MIB Access Permission	Yes	Yes	Yes
Security Settings	Yes	Yes	Yes
Authentication Algorithm	Yes	Yes	Yes
Encryption Algorithm	Yes	Yes	Yes
Authentication Password	Yes	Yes	Yes
Encryption Password	Yes	Yes	Yes
Enable User	Yes	Yes	Yes
Context Settings		·	
Context Name	Yes	Yes	Yes
Acquire Printer Management Information from Host	Yes	Yes	Yes

Wireless LAN Settings

Setting Information	Case A	Case B	Case C
Setting Up Connection by Specifying Detailed Settings			
SSID Settings	Yes	Yes	Yes
Security Settings	Yes	Yes	Yes
WPA/WPA2 PSK Settings			
WPA/WPA2 Encryption Method	Yes	Yes	Yes
Entry type	Yes	Yes	Yes
WPA/WPA2 PSK	Yes	Yes	Yes
WEP Settings			
WEP key length	Yes	Yes	Yes
Key form	Yes	Yes	Yes
WEP key 1	Yes	Yes	Yes
WEP key 2	Yes	Yes	Yes
WEP key 3	Yes	Yes	Yes
WEP key 4	Yes	Yes	Yes
Select WEP Key	Yes	Yes	Yes
802.11 Authentication	Yes	Yes	Yes
Power Save Mode			•
Power Save Mode	Yes	Yes	Yes
Select Wired/Wireless LAN			•
Select Wired/Wireless LAN	Yes	Yes	Yes

Setting Information	Case A	Case B	Case C
Device Settings Management Settings			
Device Settings Management On/Off	Yes	Yes	Yes

Other Settigs

Setting Information	Case A	Case B	Case C
AirPrint Settings			
Use AirPrint	Yes	Yes	Yes
Latitude	Yes	No	No
Longitude	Yes	No	No
Mopria Settings			•
Use Mopria	Yes	Yes	Yes
Dedicated Port Settings			•
Dedicated Port Settings	Yes	Yes	Yes
Waiting Time for Connection at Startup			•
Waiting Time for Connection at Startup	Yes	Yes	Yes
Ethernet Driver Settings			•
Ethernet Driver Settings	Yes	Yes	Yes
Auto Detect	Yes	Yes	Yes
Communication Mode	Yes	Yes	Yes

• Security Settings

Set Outbound FilterYesYesYesYesJse FilterYesYesYesYesDefault PolicyYesYesYesYesException AddressYesYesYesYeshound FilterYesYesYesJse FilterYesYesYesYesDefault PolicyYesYesYesYesSception AddressYesYesYesYesDefault PolicyYesYesYesYesSception Address FilterYesYesYesYesDutbound FilterYesYesYesYesDate FilterYesYesYesYesDefault PolicyYesYesYesYesSception AddressYesYesYesYesDefault PolicyYesYesYesYesDefault PolicyYesYesYesYesSception AddressYesYesYesYesDutbound FilterIterIterIterJse FilterYesYesYesYesDutbound FilterIterIterIterJse FilterYesYesYesYesDutbound FilterIterYesYesYesDutbound FilterYesYesYesYesDefault PolicyYesYesYesYesDefault PolicyYesYesYesYesDefault PolicyYesYes	Setting Information	Case A	Case B	Case C
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MAC Address Filter Dutbound Filter Jse Filter Yes Yes Yes Yes Default Policy Yes Yes Yes Yes Exception Address Yes Yes Yes nbound Filter Jse Filter Yes Yes Yes Yes Default Policy Yes Yes Yes Yes Yes	Default Policy	Yes	Yes	Yes
Dutbound FilterYesYesYesJse FilterYesYesYesDefault PolicyYesYesYesException AddressYesYesYesnbound FilterYesYesJse FilterYesYesYesYesDefault PolicyYesYesYesYes	Exception Address	Yes	Yes	Yes
Jse FilterYesYesYesDefault PolicyYesYesYesException AddressYesYesYesIbound FilterYesYesYesJse FilterYesYesYesDefault PolicyYesYesYes	MAC Address Filter			
Default PolicyYesYesYesException AddressYesYesYesIbound FilterIbound FilterIbound FilterJse FilterYesYesYesDefault PolicyYesYesYes	Outbound Filter			
Exception AddressYesYesYesnbound Filter	Use Filter	Yes	Yes	Yes
nbound Filter Jse Filter Yes Yes Yes Default Policy Yes Yes Yes	Default Policy	Yes	Yes	Yes
Jse FilterYesYesYesDefault PolicyYesYesYes	Exception Address	Yes	Yes	Yes
Default Policy Yes Yes Yes	Inbound Filter		•	
	Use Filter	Yes	Yes	Yes
Exception Address Yes Yes Yes	Default Policy	Yes	Yes	Yes
	Exception Address	Yes	Yes	Yes

• Restrict TX Function

Setting Information	Case A	Case B	Case C
Address Book PIN	Yes	Yes	Yes
Restrict New Destinations	Yes	Yes	Yes
Restrict Resending from Log	Yes	Yes	Yes
Coded Dial TX Confirmation	Yes	Yes	Yes

• LDAP Server Settings

Setting Information	Case A	Case B	Case C
Register the server used for searches			
Server Name	Yes	Yes	Yes
Server Address	Yes	Yes	Yes
Position to Start Search	Yes	Yes	Yes
Port Number	Yes	Yes	Yes
Search Timeout	Yes	Yes	Yes
Login Information	Yes	Yes	Yes
User Name	Yes	Yes	Yes
Password	Yes	Yes	Yes
Domain Name	Yes	Yes	Yes
Display Authentication Screen When Searching	Yes	Yes	Yes
Use Same Authentication Information as When Send Operation Started	Yes	Yes	Yes
Registering the authentication server		I I	
Server Name	Yes	Yes	Yes
Server Address	Yes	Yes	Yes
Position to Start Search	Yes	Yes	Yes
Port Number	Yes	Yes	Yes
Search Timeout	Yes	Yes	Yes
User Name Attribute	Yes	Yes	Yes
E-Mail Address Attribute	Yes	Yes	Yes
Login Information	Yes	Yes	Yes
Use System Manager ID	Yes	Yes	Yes
User Name	Yes	Yes	Yes
Password	Yes	Yes	Yes
Use SSL	Yes	Yes	Yes
Domain Name	Yes	Yes	Yes

Authentication Settings for Send Function

Setting Information	Case A	Case B	Case C
Display Authentication Screen When Sending Operation Starts	Yes	Yes	Yes
Display Confirmation Screen When Logging Out	Yes	Yes	Yes
E-Mail Sending Settings			•
E-Mail Sending	Yes	Yes	Yes
Authentication Method	Yes	Yes	Yes
Specify Authentication User Destination as Sender	Yes	Yes	Yes
File Sending Settings			•
File Sending	Yes	Yes	Yes
When Sending Files to Destinations Registered In Address Book		1	•
Authentication Method	Yes	Yes	Yes
When Sending Files to Myself		1	•
Authentication Method	Yes	Yes	Yes
Display Authentication Screen	Yes	Yes	Yes
Specify Destination Folder			

Setting Information	Case A	Case B	Case C
Host Name	Yes	Yes	Yes
Folder Path	Yes	Yes	Yes
Add User Name	Yes	Yes	Yes
Fax Sending Settings	Yes	Yes	Yes

• Other Settings

Setting Information	Case A	Case B	Case C
Display Job Log	Yes	Yes	Yes
Use as USB Device	Yes	Yes	Yes
Store to USB Memory	Yes	Yes	Yes
Memory Media Print On/Off	Yes	Yes	Yes
Enable Product Extended Survey Program	Yes	Yes	Yes
Canon Mobile Scanning ON/OFF	Yes	Yes	Yes
Google Cloud Print Settings	Yes	Yes	Yes
Notify to Check Paper Settings	Yes	Yes	Yes
Secure Print Settings			
Secured Print	Yes	Yes	Yes
Secure Print Deletion Time	Yes	Yes	Yes
Select OS for USB Connected PC	Yes	Yes	
PDL Selection (Plug and Play)			
USB	Yes	Yes	No
Auto Online for Remote Scan	Yes	Yes	Yes
Enable NFC	Yes	Yes	Yes

Service Mode

Initial screen	Large	Middle	Small	Case A	Case B	Case C
COPIER	ADJUST	VIFADJ	DEV-HV-Y	Yes	No	No
COPIER	ADJUST	VIFADJ	DEV-HV-M	Yes	No	No
COPIER	ADJUST	VIFADJ	DEV-HV-C	Yes	No	No
COPIER	ADJUST	VIFADJ	DEV-HV-K	Yes	No	No
COPIER	ADJUST	VIFADJ	TR1-HV-Y	Yes	No	No
COPIER	ADJUST	VIFADJ	TR1-HV-M	Yes	No	No
COPIER	ADJUST	VIFADJ	TR1-HV-C	Yes	No	No
COPIER	ADJUST	VIFADJ	TR1-HV-K	Yes	No	No
COPIER	ADJUST	VIFADJ	TR2SF-HV	Yes	No	No
COPIER	ADJUST	VIFADJ	TR2BK-HV	Yes	No	No
COPIER	ADJUST	VIFADJ	ICL-HV	Yes	No	No
COPIER	ADJUST	VIFADJ	FU-TMP	Yes	No	No
COPIER	ADJUST	SCNR	SUB-S-Y0	Yes	No	No
COPIER	ADJUST	SCNR	SUB-S-M0	Yes	No	No
COPIER	ADJUST	SCNR	SUB-S-C0	Yes	No	No
COPIER	ADJUST	SCNR	SUB-S-K0	Yes	No	No
COPIER	ADJUST	SCNR	SUB-S-Y1	Yes	No	No
COPIER	ADJUST	SCNR	SUB-S-M1	Yes	No	No
COPIER	ADJUST	SCNR	SUB-S-C1	Yes	No	No
COPIER	ADJUST	SCNR	SUB-S-K1	Yes	No	No
COPIER	ADJUST	SCNR	SUB-S-Y2	Yes	No	No
COPIER	ADJUST	SCNR	SUB-S-M2	Yes	No	No
COPIER	ADJUST	SCNR	SUB-S-C2	Yes	No	No
COPIER	ADJUST	SCNR	SUB-S-K2	Yes	No	No
COPIER	ADJUST	SCNR	MAI-S-Y0	Yes	No	No
COPIER	ADJUST	SCNR	MAI-S-M0	Yes	No	No

Initial screen	Large	Middle	Small	Case A	Case B	Case C
COPIER	ADJUST	SCNR	MAI-S-C0	Yes	No	No
COPIER	ADJUST	SCNR	MAI-S-K0	Yes	No	No
COPIER	ADJUST	SCNR	MAI-S-Y1	Yes	No	No
COPIER	ADJUST	SCNR	MAI-S-M1	Yes	No	No
COPIER	ADJUST	SCNR	MAI-S-C1	Yes	No	No
COPIER	ADJUST	SCNR	MAI-S-K1	Yes	No	No
COPIER	ADJUST	SCNR	MAI-S-Y2	Yes	No	No
COPIER	ADJUST	SCNR	MAI-S-M2	Yes	No	No
COPIER	ADJUST	SCNR	MAI-S-C2	No	No	No
COPIER	ADJUST	SCNR	MAI-S-K2	No	No	No
COPIER	FUNCTION	VIFFNC	SMEAR-PV	Yes	No	No
COPIER	FUNCTION	VIFFNC	FEED-IMP	Yes	No	No
COPIER	FUNCTION	VIFFNC	ICL-IMP	Yes	No	No
COPIER	FUNCTION	SPLMAN	SPL14159	Yes	Yes	Yes
COPIER	FUNCTION	SPLMAN	SPL27767	Yes	No	No
COPIER	FUNCTION	SPLMAN	SPL23846	Yes	No	No
COPIER	FUNCTION	SPLMAN	SPL26433	Yes	No	No
COPIER	FUNCTION	SPLMAN	SPL14682	Yes	No	No
	FUNCTION	SPLMAN	SPL83279	Yes	No	No
	FUNCTION	SPLMAN	SPL50288	Yes	No	No
	FUNCTION	SPLMAN	SPL37510	Yes	No	No
	FUNCTION	SPLMAN	SPL65677	Yes	No	No
	FUNCTION	SPLMAN	SPL68676	Yes	No	No
	FUNCTION	SPLMAN	SPL68677	Yes	No	No
	FUNCTION	SPLMAN	SPL25607	Yes	No	No
	FUNCTION	SPLMAN	SPL93822	Yes	Yes	Yes
	FUNCTION	SPLMAN	SPL78788	Yes	Yes	Yes
	FUNCTION	SPLMAN	SPL15176	Yes	No	No
	FUNCTION	SPLMAN	SPL58122	Yes	No	No
	FUNCTION	SPLMAN	SPL71100 *	Yes	No	No
	FUNCTION	SPLMAN	SPL00171	Yes	Yes	Yes
COPIER	FUNCTION	SPLMAN	SPL80100	Yes	Yes	Yes
	FUNCTION	SPLMAN	SPL80100	Yes	Yes	Yes
	FUNCTION	INSTALL	ERDS	Yes	Yes	Yes
	FUNCTION	INSTALL	RGW-PORT	Yes	Yes	Yes
	OPTION	BODY	NS-CMD5	Yes	No	No
	OPTION	BODY	NS-PLN	Yes	No	No
	OPTION	BODY	NS-LGN	Yes	No	No
	OPTION	BODY	SLPMODE	Yes	Yes	Yes
	OPTION	BODY	SDTM-DSP	Yes	Yes	Yes
	OPTION	IMG-MCON		Yes	No	No
			TMIC-BK			
	OPTION	IMG-MCON	TMIC-CMY	Yes	No	No
AX	SSSW	SW01 *	-	Yes	No	No
AX	SSSW	SW02 *	-	Yes	No	No
AX	SSSW	SW03 *	-	Yes	No	No
AX	SSSW	SW04 *	-	Yes	No	No
AX	SSSW	SW05 *	-	Yes	No	No
AX	SSSW	SW06 *	-	Yes	No	No
AX	SSSW	SW07 *	-	Yes	No	No
AX	SSSW	SW08 *	-	Yes	No	No
AX	SSSW	SW09 *	-	Yes	No	No
AX	SSSW	SW10 *	-	Yes	No	No
FAX	SSSW	SW11	-	Yes	No	No
FAX	SSSW	SW12 *	-	Yes	No	No

					Case C
SSSW	SW13 *	-	Yes	No	No
SSSW	SW14 *	-	Yes	No	No
SSSW	SW15 *	-	Yes	No	No
SSSW	SW16 *	-	Yes	No	No
SSSW	SW17 *	-	Yes	No	No
SSSW	SW18 *	-	Yes	No	No
SSSW	SW19 *	-	Yes	No	No
SSSW	SW20 *	-	Yes	No	No
SSSW	SW21 *	-	Yes	No	No
SSSW	SW22 *	-	Yes	No	No
SSSW	SW23 *	-	Yes	No	No
SSSW	SW24 *	-	Yes	No	No
SSSW	SW25 *	-	Yes	No	No
SSSW	SW26 *	-	Yes	No	No
SSSW	SW27 *	-	Yes	No	No
SSSW	SW28 *	-	Yes	No	No
		_			No
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		-			No
	053 "	-	res	INO	No
	SSSW SSSW SSSW SSSW SSSW SSSW SSSW SSS	SSSW SW15 * SSSW SW16 * SSSW SW17 * SSSW SW18 * SSSW SW19 * SSSW SW20 * SSSW SW21 * SSSW SW22 * SSSW SW22 * SSSW SW22 * SSSW SW24 * SSSW SW25 * SSSW SW26 * SSSW SW27 * SSSW SW27 * SSSW SW28 * SSSW SW30 * SSSW SW30 * SSSW SW31 * SSSW SW32 * MENU 005 * MENU 006 * MENU 007 * MENU 008 * NUM 002 * NUM 003 * NUM 004 * NUM 010 * NUM 010 * NUM 013 * NUM 016 * NUM 017 *	SSSW SW15* - SSSW SW16* - SSSW SW17* - SSSW SW18* - SSSW SW19* - SSSW SW20* - SSSW SW22* - SSSW SW22* - SSSW SW24* - SSSW SW25* - SSSW SW26* - SSSW SW26* - SSSW SW27* - SSSW SW28* - SSSW SW29* - SSSW SW30* - SSSW SW32* - SSSW SW32* - SSSW SW32* - SSSW SW32* - MENU 005* - MENU 006* - MENU 007* - NUM 002* - NUM 003* - NUM 006* - NUM 006	SSSW SW15* - Yes SSSW SW16* - Yes SSSW SW17* - Yes SSSW SW17* - Yes SSSW SW19* - Yes SSSW SW20* - Yes SSSW SW21* - Yes SSSW SW22* - Yes SSSW SW25* - Yes SSSW SW27* - Yes SSSW SW30* - Yes SSSW SW32* - Yes SSSW SW32* - Yes MENU 006* - Yes MENU 006* - Yes NUM 002* -	SSW SW15* - Yes No SSW SW16* - Yes No SSW SW117* - Yes No SSW SW119* - Yes No SSW SW20* - Yes No SSW SW21* - Yes No SSW SW22* - Yes No SSW SW22* - Yes No SSW SW24* - Yes No SSW SW24* - Yes No SSW SW24* - Yes No SSW SW25* - Yes No SSW SW24* - Yes No SSW SW29* - Yes No SSW SW30* - Yes No SSW SW30* - Yes No SSW SW32* -

Initial screen	Large	Middle	Small	Case A	Case B	Case C
FAX	NCU	TONE	001 *	Yes	No	No
FAX	NCU	TONE	002 *	Yes	No	No
FAX	NCU	PULSE	FORM *	Yes	No	No
FAX	NCU	PULSE	001 *	Yes	No	No
FAX	NCU	PULSE	002 *	Yes	No	No
FAX	NCU	PULSE	003 *	Yes	No	No
FAX	NCU	PULSE	004 *	Yes	No	No
FAX	NCU	DIALTONE	BIT *	Yes	No	No
FAX	NCU	DIALTONE	001 *	Yes	No	No
FAX	NCU	DIALTONE	002 *	Yes	No	No
FAX	NCU	DIALTONE	003 *	Yes	No	No
FAX	NCU	DIALTONE	004 *	Yes	No	No
FAX	NCU	DIALTONE	005 *	Yes	No	No
FAX	NCU	DIALTONE	006 *	Yes	No	No
FAX	NCU	DIALTONE	007 *	Yes	No	No
FAX	NCU	DIALTONE	008 *	Yes	No	No
FAX	NCU	3rd DLTN	BIT *	Yes	No	No
FAX	NCU	4th DLTN	001 *	Yes	No	No
FAX	NCU	5th DLTN	002 *	Yes	No	No
FAX	NCU	6th DLTN	003 *	Yes	No	No
FAX	NCU	7th DLTN	004 *	Yes	No	No
FAX	NCU	8th DLTN	005 *	Yes	No	No
FAX	NCU	9th DLTN	006 *	Yes	No	No
FAX	NCU	10th DLTN	007 *	Yes	No	No
FAX	NCU	11th DLTN	008 *	Yes	No	No
FAX	NCU	BUSTONE1	BIT *	Yes	No	No
FAX	NCU	BUSTONE2	001 *	Yes	No	No
FAX	NCU	BUSTONE3	002 *	Yes	No	No
FAX	NCU	BUSTONE4	002	Yes	No	No
FAX	NCU	BUSTONE5	003	Yes	No	No
FAX	NCU	BUSTONE6	005 *	Yes	No	No
FAX	NCU	BUSTONE0	005 *	Yes	No	No
FAX	NCU	BUSTONE7 BUSTONE8	008	Yes		No
FAX	NCU	BUSTONE9	007	Yes	No	No
FAX	NCU		BIT *		No	
FAX	NCU	BUSTONE2	001 *	Yes	No	No
		BUSTONE3 BUSTONE4	001 *	Yes	No	No
FAX	NCU			Yes	No	No
FAX	NCU	BUSTONE5	003 *	Yes	No	No
FAX	NCU	BUSTONE6	004 *	Yes	No	No
FAX	NCU	BUSTONE7	005 *	Yes	No	No
FAX	NCU	BUSTONE8	006 *	Yes	No	No
FAX	NCU	BUSTONE9	007 *	Yes	No	No
FAX	NCU	BUSTONE10	008 *	Yes	No	No
FAX	NCU	REORDRTN	BIT *	Yes	No	No
FAX	NCU	REORDRTN	001 *	Yes	No	No
FAX	NCU	REORDRTN	002 *	Yes	No	No
FAX	NCU	REORDRTN	003 *	Yes	No	No
FAX	NCU	REORDRTN	004 *	Yes	No	No
FAX	NCU	REORDRTN	005 *	Yes	No	No
FAX	NCU	REORDRTN	006 *	Yes	No	No
FAX	NCU	REORDRTN	007 *	Yes	No	No
FAX	NCU	REORDRTN	008 *	Yes	No	No
FAX	NCU	AUTO RX	001 *	Yes	No	No
FAX	NCU	AUTO RX	002 *	Yes	No	No

Initial screen	Large	Middle	Small	Case A	Case B	Case C
FAX	NCU	AUTO RX	003 *	Yes	No	No
FAX	NCU	AUTO RX	004 *	Yes	No	No
FAX	NCU	AUTO RX	005 *	Yes	No	No
FAX	NCU	AUTO RX	006 *	Yes	No	No
FAX	NCU	AUTO RX	007 *	Yes	No	No
FAX	NCU	AUTO RX	008 *	Yes	No	No
FAX	NCU	AUTO RX	009 *	Yes	No	No
FAX	NCU	CNGDTCT	001 *	Yes	No	No
FAX	NCU	CNGDTCT	002 *	Yes	No	No
FAX	NCU	CNGDTCT	006 *	Yes	No	No
FAX	NCU	CNGDTCT	007 *	Yes	No	No
FAX	NCU	CNGDTCT	008 *	Yes	No	No
FAX	NCU	CNGDTCT	009 *	Yes	No	No
FAX	NCU	CNGDTCT	011 *	Yes	No	No
FAX	NCU	CNGDTCT	012 *	Yes	No	No
FAX	NCU	SPECIALB	SW01 *	Yes	No	No
FAX	NCU	SPECIALB	SW02 *	Yes	No	No
FAX	NCU	SPECIALB	SW02 *	Yes	No	No
FAX	NCU	SPECIALB	SW04 *	Yes	No	No
FAX	NCU	SPECIALB	SW05 *	Yes	No	No
FAX	NCU	SPECIALB	SW05 *	Yes	No	No
FAX	NCU	SPECIALB	SW07 *	Yes	No	No
FAX	NCU	SPECIALB	SW08 *	Yes	No	No
FAX	NCU	SPECIALB	SW09 *	Yes	No	No
FAX	NCU	SPECIALB	SW10 *	Yes	No	No
FAX	NCU	SPECIALB	SW10 SW11 *	Yes	No	No
FAX	NCU	SPECIALB	SW12 *	Yes	No	No
FAX	NCU	SPECIALB	SW12 *	Yes	No	No
FAX	NCU	SPECIALB	SW13 SW14 *	Yes	No	No
FAX	NCU	SPECIALB	SW15 *	Yes	No	No
FAX	NCU	SPECIALB	SW16 *	Yes	No	No
FAX	NCU	SPECIALB	SW10 SW17 *	Yes	No	No
FAX	NCU	SPECIALB	SW17 SW17	Yes	No	No
FAX	NCU	SPECIALB	SW18 *	Yes	No	No
FAX	NCU	SPECIALB	SW19 SW20 *	Yes	No	No
FAX	NCU	SPECIALB	SW20 SW21 *	Yes	No	No
FAX	NCU					
FAX	NCU	SPECIALB	SW22 * SW23 *	Yes	No	No
FAX	NCU	SPECIALB SPECIALB	SW24 *	Yes Yes	No No	No No
				-		
FAX FAX	NCU NCU	SPECIALB	SW25 *	Yes	No	No
FAX	NCU	SPECIALB	SW26 * SW27 *	Yes	No	No
FAX	NCU	SPECIALB SPECIALB	SW27 * SW28 *	Yes Yes	No No	No No
FAX				-		
	NCU	SPECIALB	SW29 *	Yes	No	No
FAX	NCU	SPECIALB	SW30 * 004 *	Yes	No	No
FAX	NCU	SPECIALN		Yes	No	No
FAX	NCU	SPECIALN	005 *	Yes	No	No
FAX	NCU	SPECIALN	006 *	Yes	No	No
FAX	NCU	SPECIALN	007 *	Yes	No	No
FAX	NCU	SPECIALN	008 *	Yes	No	No
FAX	NCU	SPECIALN	009 *	Yes	No	No
FAX	NCU	SPECIALN	011 *	Yes	No	No
FAX	NCU	SPECIALN	012 *	Yes	No	No
FAX	NCU	SPECIALN	013 *	Yes	No	No

Initial screen	Large	Middle	Small	Case A	Case B	Case C
FAX	NCU	SPECIALN	014 *	Yes	No	No
FAX	NCU	SPECIALN	015 *	Yes	No	No
FAX	NCU	SPECIALN	016 *	Yes	No	No
FAX	NCU	SPECIALN	017 *	Yes	No	No
FAX	NCU	SPECIALN	019 *	Yes	No	No
FAX	NCU	SPECIALN	020 *	Yes	No	No
FAX	NCU	SPECIALN	024 *	Yes	No	No
FAX	NCU	SPECIALN	025 *	Yes	No	No
FAX	NCU	SPECIALN	026 *	Yes	No	No
FAX	NCU	SPECIALN	027 *	Yes	No	No
FAX	NCU	SPECIALN	030 *	Yes	No	No
FAX	NCU	SPECIALN	040 *	Yes	No	No
FAX	NCU	SPECIALN	041 *	Yes	No	No
FAX	NCU	SPECIALN	042 *	Yes	No	No
FAX	NCU	SPECIALN	044 *	Yes	No	No
FAX	NCU	SPECIALN	045 *	Yes	No	No
FAX	NCU	SPECIALN	046 *	Yes	No	No
FAX	NCU	SPECIALN	047 *	Yes	No	No
FAX	NCU	SPECIALN	048 *	Yes	No	No
FAX	NCU	SPECIALN	065 *	Yes	No	No
FAX	NCU	SPECIALN	066 *	Yes	No	No
FAX	NCU	RKEY	001 *	Yes	No	No
FAX	NCU	RKEY	002 *	Yes	No	No
TESTMODE	NCU	PBXDIALT	BIT *	Yes	No	No
TESTMODE	NCU	PBXDIALT	001 *	Yes	No	No
FTESTMODE	NCU	PBXDIALT	002 *	Yes	No	No
TESTMODE	NCU	PBXDIALT	003 *	Yes	No	No
TESTMODE	NCU	PBXDIALT	004 *	Yes	No	No
TESTMODE	NCU	PBXDIALT	005 *	Yes	No	No
TESTMODE	NCU	PBXDIALT	006 *	Yes	No	No
TESTMODE	NCU	PBXDIALT	007 *	Yes	No	No
TESTMODE	NCU	PBXDIALT	008 *	Yes	No	No
TESTMODE	NCU	PBXBUSYT	BIT *	Yes	No	No
TESTMODE	NCU	PBXBUSYT	001 *	Yes	No	No
TESTMODE	NCU	PBXBUSYT	002 *	Yes	No	No
TESTMODE	NCU	PBXBUSYT	003 *	Yes	No	No
TESTMODE	NCU	PBXBUSYT	004 *	Yes	No	No
TESTMODE	NCU	PBXBUSYT	005 *	Yes	No	No
TESTMODE	NCU	PBXBUSYT	006 *	Yes	No	No
TESTMODE	NCU	PBXBUSYT	007 *	Yes	No	No
TESTMODE	NCU	PBXBUSYT	008 *	Yes	No	No

* : FAX model only



Periodical Service

Periodically Replaced Parts	90
Durable Parts	91
Periodical Services	92
Cleaning	93

Periodically Replaced Parts

No periodically replaced parts is set for this product.

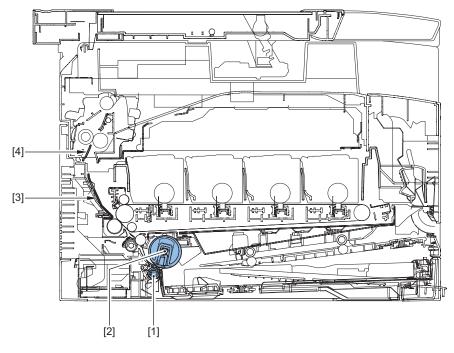
Durable Parts

No durable parts is set for this product.

Periodical Services

No periodical service is set for this product.

Cleaning



No.	Cleaning parts	Procedure
1	Pickup roller	Clean with lint-free paper. For heavy soils, use alcohol to wipe off with lint-free
2	Separation roller	paper.
3	Paper feed guide	
4	Fixing front guide	

4

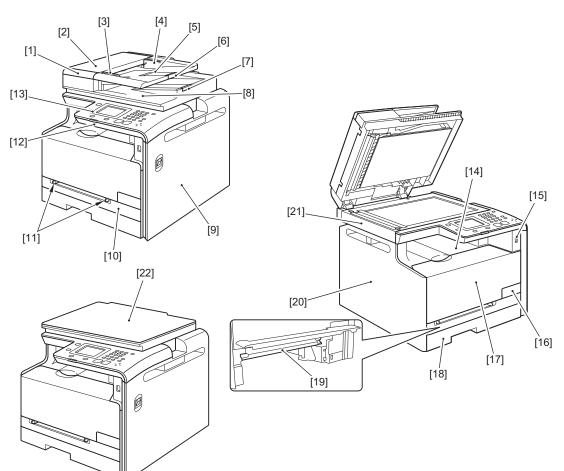
Disassembly/ Assembly

List of Parts External Cover, Internal Cover	07 , 09
Document exposure/feeder system 1 Document Exposure, Feed System Disassembly/Assembly Procedure	
Controller System1	45
Controller System Disassembly/	17
Assembly Procedure 1	
Laser Exposure System1	
Laser Exposure System Disassembly Assembly Procedure	/ 73
Image Formation System1	
Image Formation System	
Disassembly/ Assembly Procedure	
	79
Fixing System1	85
Fixing System Disassembly/ Assembly Procedure1	y
Pickup Feeder System1	
Pickup Feeder System Disassembly/ Assembly Procedure	

List of Parts

List of External / Internal Cover

Front Side

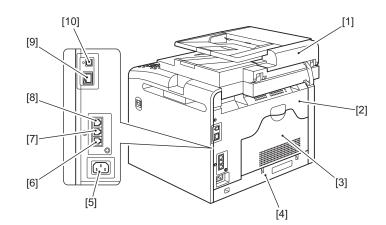


No.	Parts Name	Remarks	Reference
[1]	ADF Front Upper Cover	MF628Cw / 626Cn / 624Cw / 623Cn	-
[2]	ADF Upper Cover	MF628Cw / 626Cn / 624Cw / 623Cn	-
[3]	Side Guide (Front)	MF628Cw / 626Cn / 624Cw / 623Cn	-
[4]	Side Guide (Rear)	MF628Cw / 626Cn / 624Cw / 623Cn	-
[5]	Document Tray	MF628Cw / 626Cn / 624Cw / 623Cn	-
[6]	Extension Tray	MF628Cw / 626Cn / 624Cw / 623Cn	-
[7]	Sub Tray	MF628Cw / 626Cn / 624Cw / 623Cn	-
[8]	Delivery Tray	MF628Cw / 626Cn / 624Cw / 623Cn	-
[9]	Right Cover	-	"Removing the Right Cover" on page 111
[10]	Multi-Purpose Tray Pickup Cover	-	-
[11]	Paper Guide	-	-
[12]	Control Panel Lower Cover	-	-
[13]	Control Panel	-	"Removing the Control Panel Unit" on page 160
[14]	Upper Cover	-	"Removing the Upper Cover" on page 117
[15]	USB Port	-	-
[16]	Right Front Cover	-	-
[17]	Front Cover	-	"Removing the Front Cover" on page 113
[18]	Cassette	-	-
[19]	Multi-Purpose Tray Transport Guide	-	-

4. Disassembly/Assembly

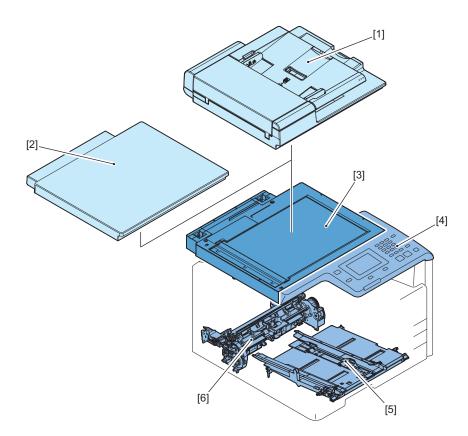
No.	Parts Name	Remarks	Reference
[20]	Left Cover	-	"Removing the Left Cover" on page 109
[21]	Reader Cover	-	-
[22]	Platen Cover	MF621Cn	

Rear Side



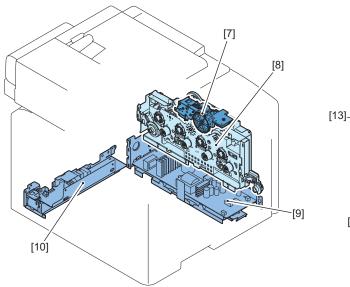
No.	Parts Name	Remarks	Reference
[1]	ADF Rear Cover	MF628Cw / 626Cn / 624Cw / 623Cn	-
[2]	Rear Upper Cover	-	"Removing the Rear Upper Cover" on page 116
[3]	Rear Cover	-	"Removing the Rear Cover" on page 116
[4]	Rear Lower Cover	-	"Removing the Rear Lower Cover" on page 116
[5]	Power Socket	-	-
[6]	Telephone Line Jack	MF628Cw / 626Cn	-
[7]	External Device Jack	MF628Cw / 626Cn	-
[8]	Handset Terminal	MF628Cw / 626Cn	-
[9]	LAN Port	-	-
[10]	USB Port	-	-

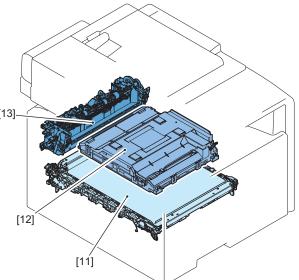




No.	Parts Name	Remarks	Reference	Adjustment during parts replacement
[1]	ADF Unit	MF628Cw / 626Cn / 624Cw / 623Cn	"Removing the ADF Unit/Copyboard + Reader Unit" on page 121	"After Replacing the ADF Units" on page 124
[2]	Platen Cover	MF621Cn	-	-
[3]	Reader Unit	-	"Removing the ADF Unit/Copyboard + Reader Unit" on page 121	"After Replacing the Reader Unit" on page 124
[4]	Control Panel Unit	-	"Removing the Control Panel Unit" on page 160	-
[5]	Multi-purpose Tray Unit	-	"Removing the Multi-purpose Tray Unit" on page 196	-
[6]	Pickup Unit	-	"Removing the Pickup Unit" on page 199	-

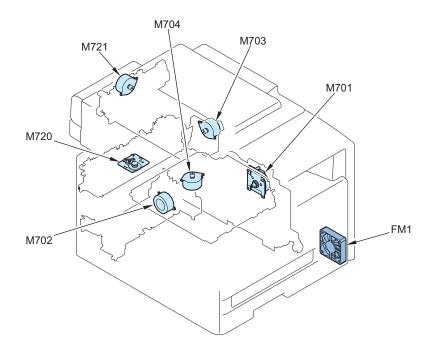
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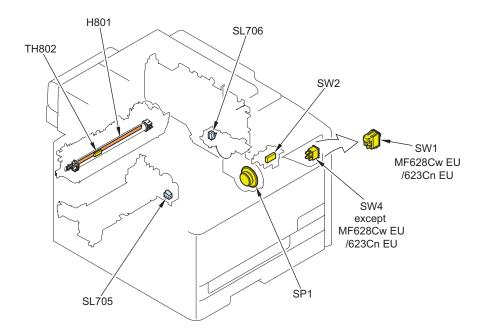
No.	Parts Name	Remarks	Reference	Adjustment during parts replacement
[7]	Sub Drive Unit	-	"Removing the Sub Drive Unit" on page 168	-
[8]	Main Drive Unit	-	"Removing the Main Drive Unit" on page 162	-
[9]	Low Voltage Power Supply Unit	-	"Removing the Low Voltage Power Sup- ply Unit" on page 155	-
[10]	Fixing Power Supply Unit	-	"Removing the Fixing Power Supply Unit" on page 159	-
[11]	ITB Unit	-	"Removing the ITB Unit" on page 179	-
[12]	Laser Scanner Unit	-	"Removing the Laser Scanner Unit" on page 173	"After Replacing the Laser Scanner Unit" on page 176
[13]	Fixing Assembly	-	"Removing the Fixing Assembly" on page 186	-

List of Motor / Fan



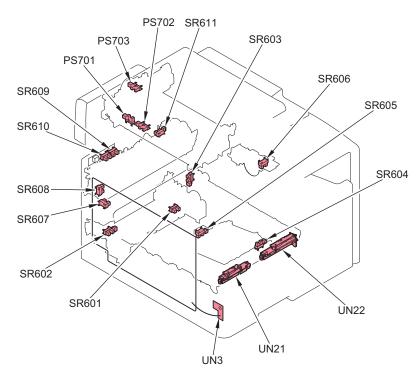
No.	Parts Name	Main Unit	Remarks	Reference	Adjustment during parts replacement
M701	Main Motor	Main Drive Unit	-	"Removing the Main Motor" on page 169	-
M702	Pickup Motor	Pickup Unit	-	-	-
M703	Fixing Motor	Product configuration	-	"Removing the Fixing Motor" on page 191	-
M704	Laser Scanner Motor	Laser Scanner Unit	-	-	-
M720	Reader Motor	Reader Unit	-	"Removing the Reader Scanner Motor" on page 142	-
M721	ADF Motor	ADF Paper Feeder Unit	MF628Cw / 626Cn / 624Cw / 623Cn	" Removing the ADF Pickup Motor (MF628Cw/626Cn/624Cw/ 623Cn) " on page 132	-
FM1	Fan	Product configuration	-	"Removing the Fan" on page 170	-

List of Clutch / Solenoid / Heater / Thermistor / Switch / Speaker



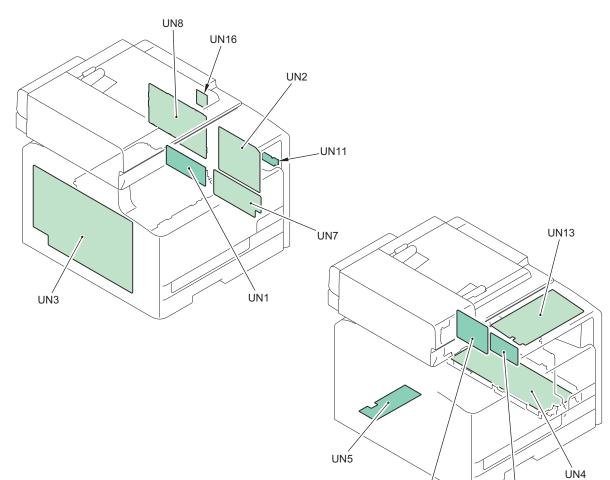
No.	Parts Name	Main Unit	Remarks	Reference	Adjustment during parts replacement
H801	Fixing Heater	Fixing Film Unit	-	-	-
TH802	Thermistor	Fixing Film Unit	-	-	-
SP1	Speaker	Product configuration	MF628Cw / 626Cn	"Removing the Speaker (MF628Cw/ 626Cn)" on page 171	-
SL706	Developing Separation Solenoid	Sub Drive Unit	-	-	-
SL705	Cassette Pickup Solenoid	Pickup Unit	-	-	-
SW2	Front Cover Sensor	Product configuration	-	-	-
SW4	Main Power Switch	Product configuration	except MF628Cw EU / 623Cn EU	-	-
SW1	Main Power Switch	Product configuration	MF628Cw EU / 623Cn EU	-	-





No.	Parts Name	Main Unit	Remarks	Reference	Adjustment during parts replacement
PS701	CIS Unit Homeposition Sensor	Reader Unit	-	-	-
PS702	Document End Sensor	ADF Paper Feeder Unit	MF628Cw / 626Cn / 624Cw / 623Cn	-	-
PS703	Document Sensor	ADF Paper Feeder Unit	MF628Cw / 626Cn / 624Cw / 623Cn	-	-
SR601	Cassette Paper Detection Sensor	Pickup Unit	-	-	-
SR602	Registration Detection Sensor	Pickup Unit	-	-	-
SR603	Fixing Loop Sensor	Product configuration	-	-	-
SR604	MP Tray Paper Detection Sensor	Multi-purpose Tray Unit	-	-	-
SR605	MP Tray Pre-Registration Detection Sensor	Multi-purpose Tray Unit	-	-	-
SR606	Developing Homeposition Sensor	Product configuration	-	-	-
SR607	Rear Cover Sensor	Product configuration	-	-	-
SR608	Fixing Pressure Release Sensor	Product configuration	-	-	-
SR609	Fixing Delivery Sensor	Fixing Assembly	-	-	-
SR610	Media Width Sensor (L)	Fixing Assembly	-	-	-
SR611	Media Width Sensor (R)	Fixing Assembly	-	-	-
UN3	Environment Sensor	High Voltage Power Supply PCB	-	-	-
UN21	Patch Sensor	ITB Unit	-	-	-
UN22	Patch Registration Sensor	ITB Unit	-	-	-





No.	Parts Name	Main Unit	Remarks	Reference	Adjustment during parts replacement
UN1	Laser Driver PCB	Laser Scanner Unit	-	-	-
UN2	DC Controller PCB	Product configuration	-	"Removing the DC Controller PCB" on page 152	"Before Replacing the DC Con- troller PCB" on page 152 "After Replacing the DC Control- ler PCB" on page 152
UN3	High Voltage Power Supply PCB	Product configuration	-	"Removing the High Voltage Power Supply PCB" on page 158	-
UN4	Low Voltage Power Supply PCB	Low Voltage Power Supply Unit	-	-	-
UN5	Fixing Power Supply PCB	Fixing Power Supply Unit	-	-	-
UN7	Driver PCB	Product configuration	-	"Removing the Driver PCB" on page 153	-
UN8	Main Controller PCB	Product configuration	-	"Removing the Main Controller PCB" on page 147	"Before Replacing the Main Controller PCB" on page 147 "After Replacing the Main Con- troller PCB" on page 149
UN9	FAX-NCU PCB	Product configuration	MF628Cw / 626Cn	"Removing the FAX PCB (MF628Cw/ 626Cn)" on page 161	-
UN1 1	USB Host PCB	Product configuration	-	-	-
UN1 2	Off Hook PCB	Product configuration	MF628Cw / 626Cn	"Removing the Off Hook PCB (MF628Cw/ 626Cn)" on page 162	-
UN1 3	Control Panel NFC PCB	Control Panel Unit	-	-	-

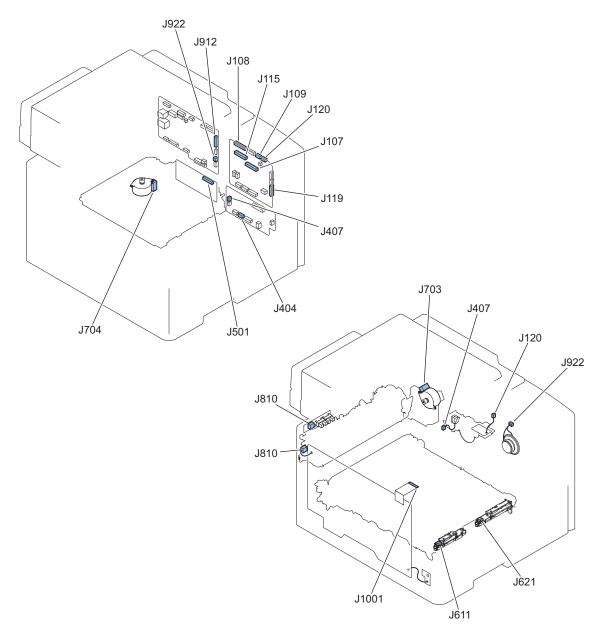
UN9

UN12

4. Disassembly/Assembly

No.	Parts Name	Main Unit	Remarks	Reference	Adjustment during parts replacement
UN1 6	Wireless LAN PCB			"Removing the Wireless LAN PCB (MF628Cw/624Cw)" on page 147	-

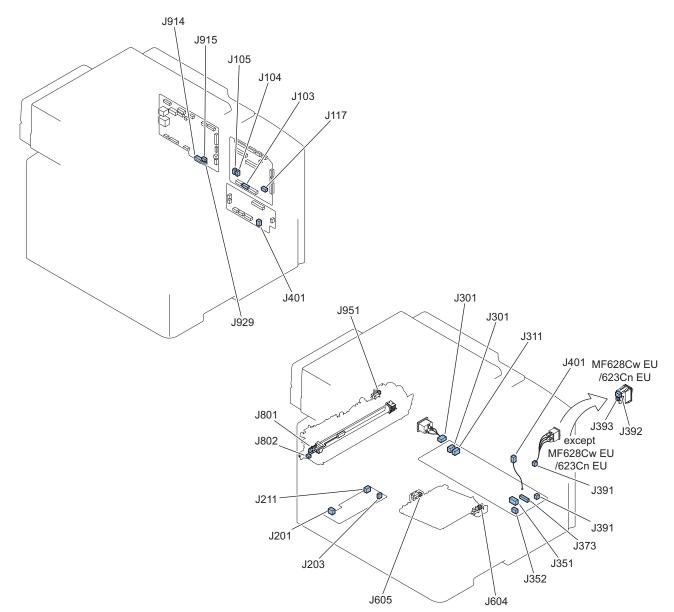
List of connector



J No.	Sym- bol	Name	Rela	y connec- tor	J No.	Sym- bol	Name	Remarks
J107	UN2	DC Controller PCB			J912	UN8	Main Controller PCB	
J108	UN2	DC Controller PCB			J501	UN1	Laser Driver PCB	
J109	UN2	DC Controller PCB			J704	M704	Laser Scanner Motor	
J404	UN7	Driver PCB			J703	M703	Fixing Motor	
J407	UN7	Driver PCB			J407	SL706	Developing Separation Sole- noid	
J115	UN2	DC Controller PCB			J1001	UN3	High Voltage Power Supply PCB	
J119	UN2	DC Controller PCB			J611	UN21	Patch Sensor	

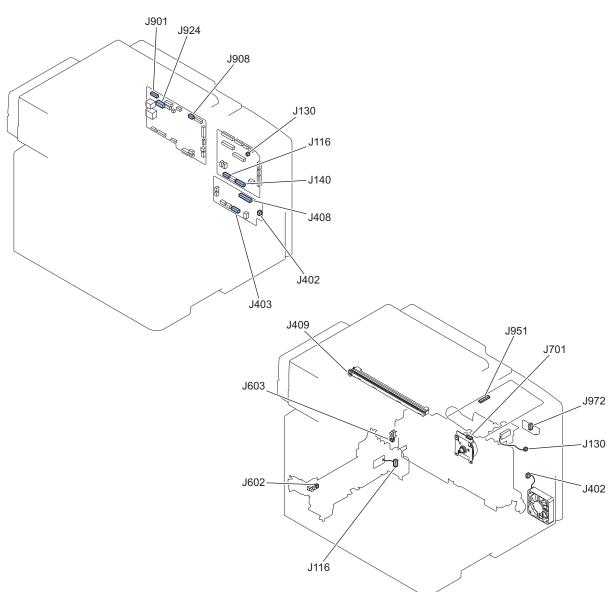
4. Disassembly/Assembly

J No.	Sym- bol	Name	Relay connec- tor		- J No.	Sym- bol	Name	Remarks
J119	UN2	DC Controller PCB			J621	UN22	Patch Registration Sensor	
J120	UN2	DC Controller PCB			J120	SR606	Developing Homeposition Sen- sor	
J810	UN3	High Voltage Power Supply PCB			J810	-	Fixing Unit Sensor	
J922	UN8	Main Controller PCB			J922	SP1	Speaker	MF628Cw / 626Cn



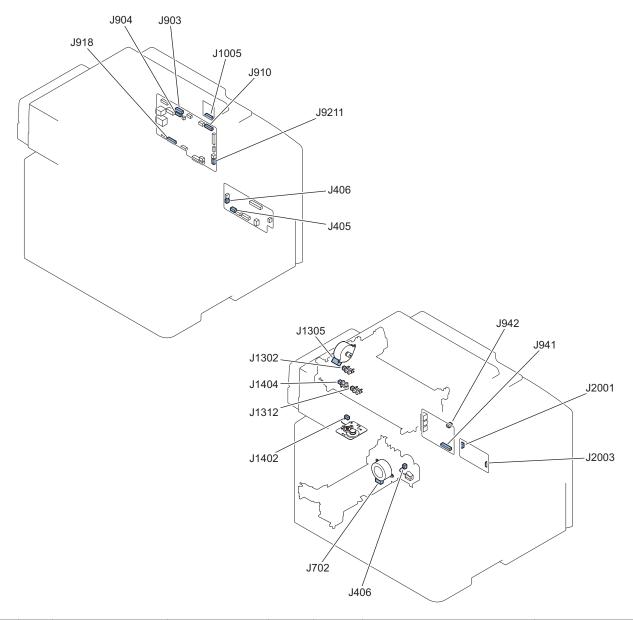
J No.	Sym	Name	Rela	y con	nec-	J No.	Symbol	Name	Remarks
	bol			tor					
J103	UN2	DC Controller PCB				J373	UN4	Low Voltage Power Supply PCB	
J104	UN2	DC Controller PCB	J80			J802	TH802	Thermistor	
			2						
J104	UN2	DC Controller PCB				J951	SR611	Media Width Sensor (R)	
J105	UN2	DC Controller PCB				J203	UN5	Fixing Power Supply PCB	
J117	UN2	DC Controller PCB				J604	SR604	MP Tray Paper Detection Sensor	
J117	UN2	DC Controller PCB				J605	SR605	MP Tray Pre-Registration Detection	
								Sensor	

J No.	Sym bol	Name	Rela	y con tor	nec-	J No.	Symbol	Name	Remarks
J301	UN4	Low Voltage Power Supply PCB				J301	-	INLET	
J391	UN4	Low Voltage Power Supply PCB				J393	SW1	Main Power Switch	MF628Cw EU / 623Cn EU
J929	UN8	Main Controller PCB				J392	SW1	Main Power Switch	MF628Cw EU / 623Cn EU
J391	UN4	Low Voltage Power Supply PCB				J391	SW4	Main Power Switch	except MF628Cw EU /623Cn EU
J311	UN4	Low Voltage Power Supply PCB				J211	UN5	Fixing Power Supply PCB	
J351	UN4	Low Voltage Power Supply PCB				J914	UN8	Main Controller PCB	
J352	UN4	Low Voltage Power Supply PCB				J915	UN8	Main Controller PCB	
J401	UN4	Low Voltage Power Supply PCB				J401	UN7	Driver PCB	
J201	UN5	Fixing Power Supply PCB				J801	H801	Fixing Heater	



4. Disassembly/Assembly

J No.	Sym- bol	Name	Relay connec- tor	J No.	Sym- bol	Name	Remarks
J116	UN2	DC Controller PCB		J116	SR601	Cassette Paper Detection Sen- sor	
J116	UN2	DC Controller PCB		J602	SR602	Registration Detection Sensor	
J116	UN2	DC Controller PCB		J603	SR603	Fixing Loop Sensor	
J130	UN2	DC Controller PCB		J130	SW2	Front Cover Sensor	
J140	UN2	DC Controller PCB		J408	UN7	Driver PCB	
J402	UN7	Driver PCB		J402	FM1	Fan	
J403	UN7	Driver PCB		J701	M701	Main Motor	
J901	UN8	Main Controller PCB		J409	UN23	CIS Unit	
J908	UN8	Main Controller PCB		J972	UN11	USB Host PCB	
J924	UN8	Main Controller PCB		J951	UN13	Control Panel NFC PCB	



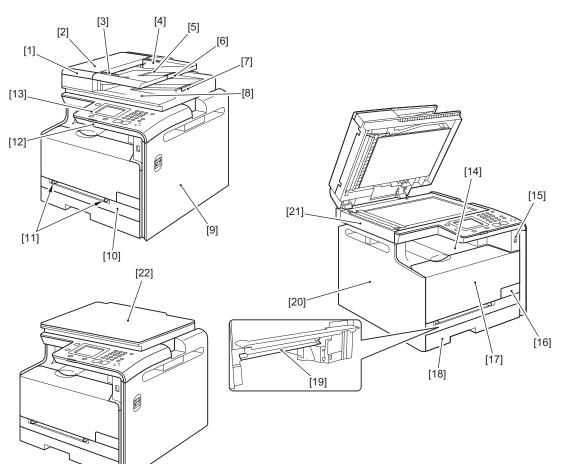
J No.	Sym	Name	Relay	conne	ector	J No.	Sym-	Name	Remarks
	bol						bol		
J405	UN7	Driver PCB				J702	M702	Pickup Motor	
J406	UN7	Driver PCB				J406	SL705	Cassette Pickup Solenoid	
J903	UN8	Main Controller PCB				J1302	PS703	Document Sensor	MF628Cw / 626Cn / 624Cw / 623Cn

J No.	Sym bol	Name	Relay	connec	ctor	J No.	Sym- bol	Name	Remarks
J903	UN8	Main Controller PCB				J1305	M721	ADF Motor	MF628Cw / 626Cn / 624Cw / 623Cn
J903	UN8	Main Controller PCB	J1310			J1312	PS702	Document End Sensor	MF628Cw / 626Cn / 624Cw / 623Cn
J904	UN8	Main Controller PCB	J1402			J1402	M720	Reader Motor	
J904	UN8	Main Controller PCB	J1401			J1404	PS701	CIS Unit Homeposition Sensor	
J918	UN8	Main Controller PCB				J941	UN9	FAX-NCU PCB	MF628Cw / 626Cn
J9211	UN8	Main Controller PCB				J2003	UN12	Off Hook PCB	MF628Cw / 626Cn
J942	UN9	FAX-NCU PCB				J2001	UN12	Off Hook PCB	MF628Cw / 626Cn
J910	UN8	Main Controller PCB				J1005	UN16	Wireless LAN PCB	MF628Cw / 624Cw

External Cover, Internal Cover

Location

Front Side

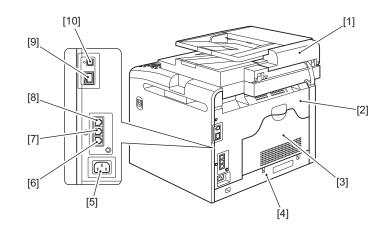


No.	Parts Name	Remarks	Reference
[1]	ADF Front Upper Cover	MF628Cw / 626Cn / 624Cw / 623Cn	-
[2]	ADF Upper Cover	MF628Cw / 626Cn / 624Cw / 623Cn	-
[3]	Side Guide (Front)	MF628Cw / 626Cn / 624Cw / 623Cn	-
[4]	Side Guide (Rear)	MF628Cw / 626Cn / 624Cw / 623Cn	-
[5]	Document Tray	MF628Cw / 626Cn / 624Cw / 623Cn	-
[6]	Extension Tray	MF628Cw / 626Cn / 624Cw / 623Cn	-
[7]	Sub Tray	MF628Cw / 626Cn / 624Cw / 623Cn	-
[8]	Delivery Tray	MF628Cw / 626Cn / 624Cw / 623Cn	-
[9]	Right Cover	-	"Removing the Right Cover" on page 111
[10]	Multi-Purpose Tray Pickup Cover	-	-
[11]	Paper Guide	-	-
[12]	Control Panel Lower Cover	-	-
[13]	Control Panel	-	"Removing the Control Panel Unit" on page 160
[14]	Upper Cover	-	"Removing the Upper Cover" on page 117
[15]	USB Port	-	-
[16]	Right Front Cover	-	-
[17]	Front Cover	-	"Removing the Front Cover" on page 113
[18]	Cassette	-	-

4. Disassembly/Assembly

No.	Parts Name	Remarks	Reference
[19]	Mulyi-Purpose Tray Transport	-	-
	Guide		
[20]	Left Cover	-	"Removing the Left Cover" on page 109
[21]	Reader Cover	-	-
[22]	Platen Cover	MF621Cn	

Rear Side



No.	Parts Name	Remarks	Reference
[1]	ADF Rear Cover	MF628Cw / 626Cn / 624Cw / 623Cn	-
[2]	Rear Upper Cover	-	"Removing the Rear Upper Cover" on page 116
[3]	Rear Cover	-	"Removing the Rear Cover" on page 116
[4]	Rear Lower Cover	-	"Removing the Rear Lower Cover" on page 116
[5]	Power Socket	-	-
[6]	Telephone Line Jack	MF628Cw / 626Cn	-
[7]	External Device Jack	MF628Cw / 626Cn	-
[8]	Handset Terminal	MF628Cw / 626Cn	-
[9]	LAN Port	-	-
[10]	USB Port	-	-

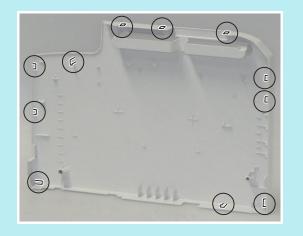
External/ Internal Cover Disassembly/ Assembly Procedure

Removing the Left Cover

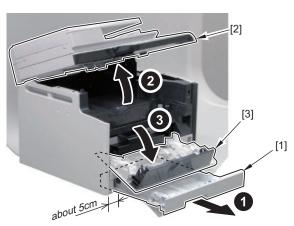
Procedure

NOTE:

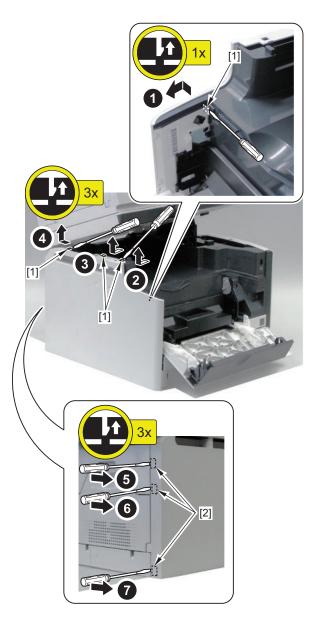
The following shows the 11 claws of the Left Cover.



- 1. Remove the Cassette [1].
- 2. To remove the claw at the lower side of the Left Cover, move the Host Machine for about 5cm from the base.
- 3. Open the Reader Unit [2].
- 4. Open the Front Cover [3].



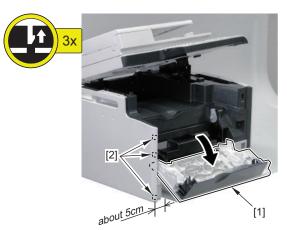
- 5. Remove the 4 claws [1] at the upper side of the Left Cover.
- 6. Remove the 3 claws [2] at the rear side of the Left Cover.



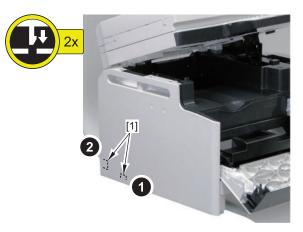
- 7. Remove the claw [1] at the lower side of the Left Cover.
- 8. While supporting the Left Cover, remove the 2 claws
 [2] at the upper front side of the Left Cover.



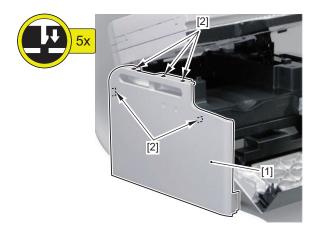
- 2. Open the Front Cover [1].
- 3. Install the 3 claws [2] at the front side of the Left Cover.



4. Fit in the 2 claw [1] at the lower side of the Left Cover.



5. Install the Left Cover [1].5 claws [2]



- 9. Close the Front Cover [1], and then hold the Left Cover [2] to remove.
 - 1 claw [3]



[1]

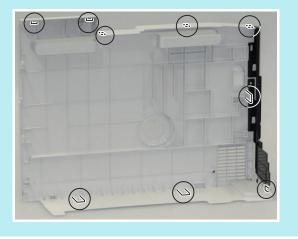
- Installing the Left Cover
- 1. To remove the claw at the lower side of the Left Cover, move the Host Machine for about 5cm from the base.



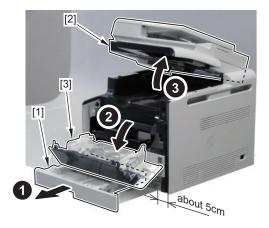
Procedure

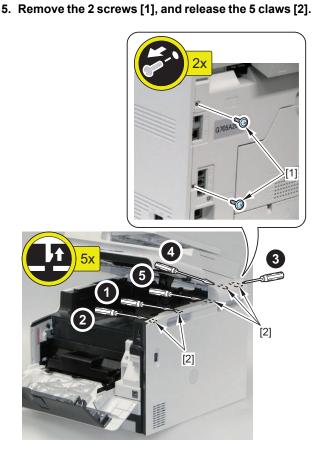
NOTE:

The following shows the 9 claws of the Right Cover.

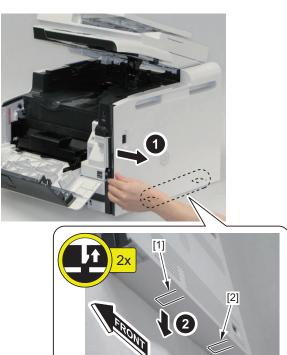


- 1. Remove the Cassette [1].
- 2. To remove the claw at the lower side of the Right Cover, move the Host Machine for about 5cm from the base.
- 3. Open the Reader Unit [2].
- 4. Open the Front Cover [3].





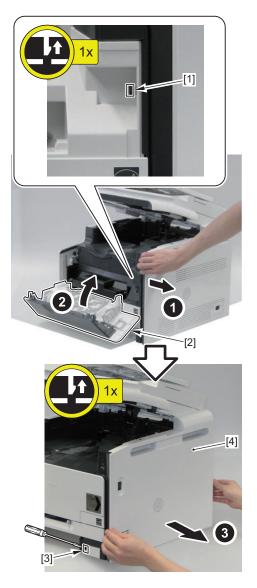
6. Release the claw [1] and claw [2] while opening the Right Cover.



7. Release the claw [1] while opening the Right Cover.

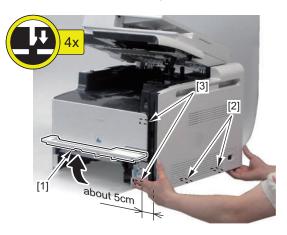
3

8. Close the Front Cover [2], release the claw [3], and then remove the Right Cover [4].



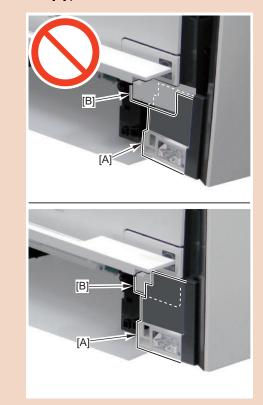
Installing the Right Cover

 Open the Multi-purpose Tray Pickup Cover [1] and attach the 2 claws [2] on the lower side and 2 claws
 [3] on the front side of the Right Cover.

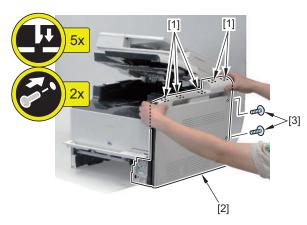


CAUTION:

To install the Right Cover to the Host Machine, be sure to install [A] part of the Right Cover to be attached outside of [B] part.



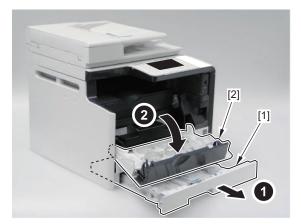
- 2. Insert the 5 claws [1] on the upper side of the Right Cover and install the Right Cover [2].
 - 2 screws [3]



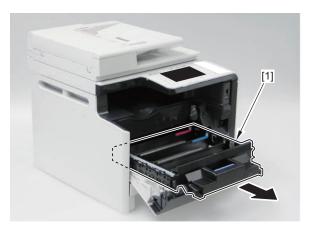
Removing the Front Cover

Procedure

- 1. Remove the Cassette [1].
- 2. Open the Front Cover [2].



3. Pull the Cartridge Tray [1].



4. Remove the cartridges

CAUTION:

Since the Cartridge Tray interferes with the stopper when removing the stopper, do not pull out the Cartridge Tray until it hits the end.

- 5. Insert a flat-blade screwdriver into the clearance [A] between the Right Stopper [1] and rail.
- 6. Remove the Right Stopper [1] while pushing the [B] part.
 - 1 Claws [2]
 - 1 Protrusion [3]



7. Insert a flat-blade screwdriver into the clearance [A] between the Left Stopper [1] and rail.

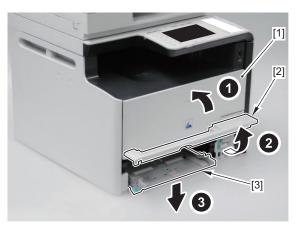
- 8. Remove the Left Stopper [1] while pushing the [B] part.
 - 1 Claws [2]
 - 1 Protrusion [3]



9. Remove the Cartridge Tray [1].

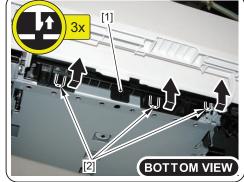


- 10. Close the Front Cover [1].
- 11. Open the Multi-purpose Tray Pickup Slot Cover [2] and Multi-purpose Tray Pickup Tray [3].



- 12. While lifting the Feeding Guide [1], remove the 3 claws [2].
- 13. Close the Multi-purpose Tray Pickup Slot Cover [3]





14. Open the Front Cover [1] to remove the Feeding Guide [2].

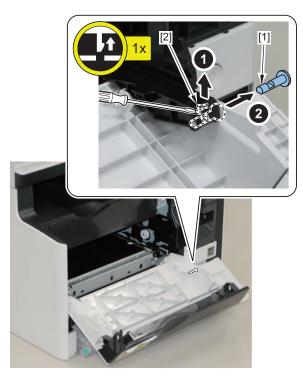


15. Put the Front Cover [1] back to position A.

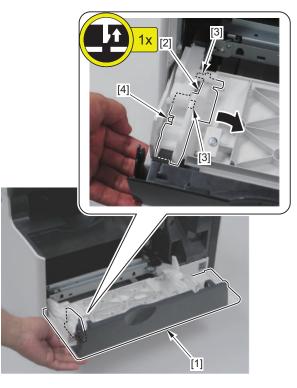
- 16. Remove the Right Arm [2] of the Multi-purpose Tray Pickup Slot Cover to remove the Multi-purpose Tray Pickup Slot Cover [3].
 - 2 Shafts [4]



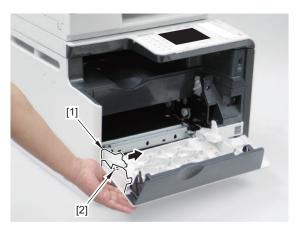
- 17. Remove the Fixation Pin [1] of the Right Arm.
 - 1 Claw [2]



- 18. Remove the Left Holder [2] while holding the Front Cover [1].
 - 2 Shafts [3]
 - 1 Claw [4]



- 19. Push and remove the Left Arm [1].
 - 1 Shaft [2]



20. Remove the Front Cover [1].1 Shaft [2]



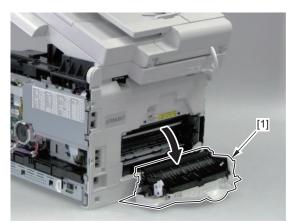
Removing the Rear Upper Cover

Preparation

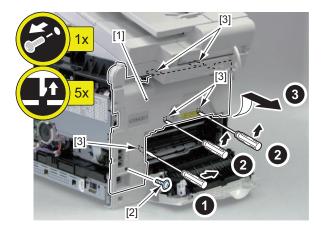
- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)

Procedure

1. Open the Rear Cover [1].



- 2. Remove the Rear Upper Cover [1].
 - 1 screw [2]
 - 5 claws [3]



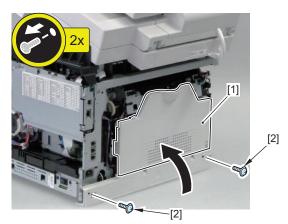
Removing the Rear Lower Cover

Preparation

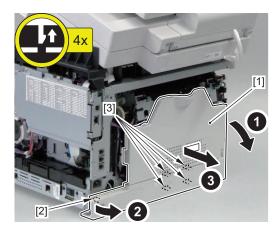
- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)
- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)

Procedure

1. Close the Rear Cover [1] and remove the 2 screws [2].



- 2. Open the Rear Cover and remove the Rear Lower Cover [1] in the direction of the arrow.
 - 1 boss [2]
 - 4 claws [3]



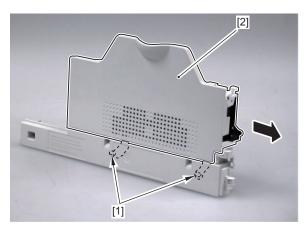
Removing the Rear Cover

Preparation

- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)
- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)
- 4. Remove the Rear Lower Cover. (Refer to "Removing the Rear Lower Cover" on page 116)

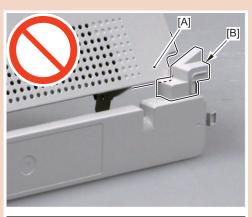
Procedure

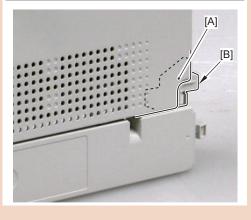
1. Remove the Rear Cover [2] from the shafts [1] of the Rear Lower Cover.



CAUTION:

When installing the Rear Door, be sure to install [A] part to be attached outside of [B] part.

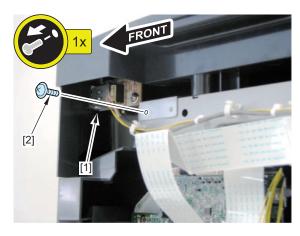




- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)
- 4. Remove the ADF Unit/Copyboard + Reader Unit. (Refer to "Removing the ADF Unit/Copyboard + Reader Unit" on page 121)

Procedure

- 1. Open the Front Cover.
- 2. Remove the USB Host PCB [1].
 - 1 screw [2]



Removing the Upper Cover

Preparation

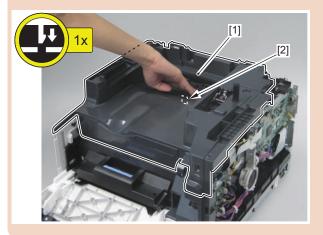
- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)

3. Remove the Upper Cover [1].

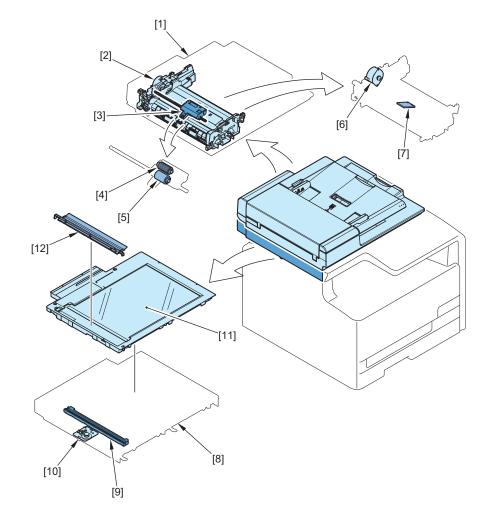
- 8 screws [2] 1 claw [3]

CAUTION:

When installing the Upper Cover [1], make sure that the claw [2] is surely fitted.



Document exposure/feeder system



No.	Parts Name	Main Unit	Remarks	Reference	Adjustment during parts replacement
[1]	ADF Unit	Product Configuration	MF628Cw / 626Cn / 624Cw / 623Cn	"Removing the ADF Unit/ Copyboard + Reader Unit" on page 121	"After Replacing the ADF Units" on page 124
[2]	ADF Paper Feeder Unit	ADF Unit	MF628Cw / 626Cn / 624Cw / 623Cn	" Removing the ADF Pickup Feed Unit (MF628Cw/ 626Cn/624Cw/623Cn) " on page 131	-
[3]	ADF Roller Unit	ADF Unit	MF628Cw / 626Cn / 624Cw / 623Cn	"Removing the ADF Roller Unit (MF628Cw/626Cn/ 624Cw/623Cn) " on page 127	-
[4]	ADF Pickup Roller	ADF Roller Unit	MF628Cw / 626Cn / 624Cw / 623Cn	" Removing the ADF Pickup Roller (MF628Cw/626Cn/ 624Cw/623Cn) " on page 128	-
[5]	ADF Separation Roller	ADF Roller Unit	MF628Cw / 626Cn / 624Cw / 623Cn	" Removing the ADF sepa- ration roller (MF628Cw/ 626Cn/624Cw/623Cn)" on page 129	-

Location

No.	Parts Name	Main Unit	Remarks	Reference	Adjustment during parts replacement
[6]	ADF Motor	ADF Paper Feeder Unit	MF628Cw / 626Cn / 624Cw / 623Cn : M721	" Removing the ADF Pickup Motor (MF628Cw/626Cn/ 624Cw/623Cn) " on page 132	-
[7]	ADF Separation Pad	ADF Paper Feeder Unit	MF628Cw / 626Cn / 624Cw / 623Cn	"Removing the ADF Separa- tion Pad (MF628Cw/626Cn/ 624Cw/623Cn)" on page 129	-
[8]	Reader Unit	Product Configuration	-	"Removing the ADF Unit/ Copyboard + Reader Unit" on page 121	"After Replacing the Read- er Unit" on page 124
[9]	CIS Unit	Reader Unit	UN23	"Removing the CIS Unit" on page 138	"After replacing CIS units" on page 140
[10]	Reader Motor	Reader Unit	M720	"Removing the Reader Scanner Motor" on page 142	-
[11]	Reader Unit Upper Cover	Reader Unit	-	"Removing the Reader Unit Upper Cover" on page 135	"After Replacing the Read- er Upper Cover Unit" on page 136
[12]	Scoopup sheet holder	Reader Unit	-	"Removing the Scoopup sheet holder" on page 134	"After Replacing the Scoopup Sheet Holder" on page 134

Document Exposure, Feed System Disassembly/ Assembly Procedure

Removing the ADF Unit/ Copyboard + Reader Unit

Preparation

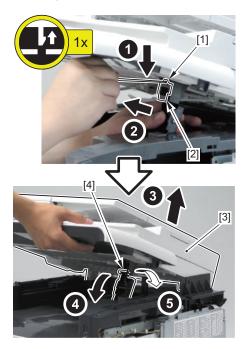
- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)
- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)

Procedure

CAUTION:

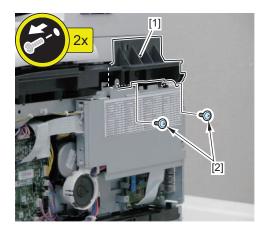
Be sure to perform "After replacing ADF unit (Refer to "After Replacing the ADF Units" on page 124)" and "After replacingreader unit (Refer to "After Replacing the Reader Unit" on page 124)" when replacing the ADF Unit and Reader Unit, respectively.

- 1. Remove the claw [1] to remove the Reader Shaft Retainer [2].
- 2. While supporting the ADF Unit/Copyboard + Reader Unit [3], remove the Reader Support Shaft [4].
- 3. Bring down the Reader Support Shaft [4] to close the ADF Unit/Copyboard + Reader Unit [3].

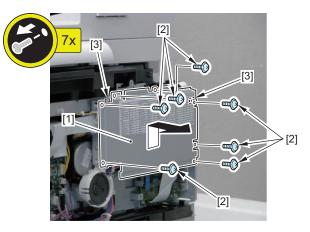


4. Remove the handle [1].

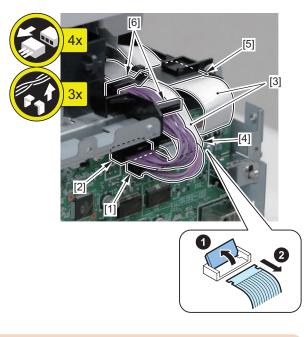
2 screws [2]



- 5. Remove the Controller Cover [1].
 - 7 screws [2]
 - 2 hooks [3]

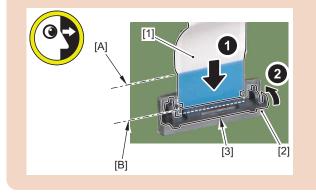


- 6. Disconnect the connector [1], connector (only for models with ADF) [2], and 2 Flat Cables [3].
 - 1 Flat Cable Connector Lock [4]
 - 1 Ferrite Core [5]
 - 2 Harness Guides [6]



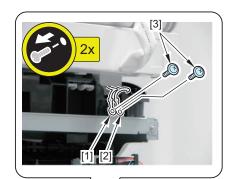
CAUTION:

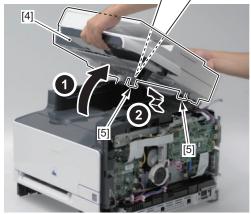
When connecting the Flat Cable, be sure to perform the following; while pushing the Flat Cable [1] against the connector with a lock [2], check that the line on the edge [A] of the Flat Cable Connector and the line on the edge [B] of the Flat Cable Connector Lock are parallel, and then close the Flat Cable Connector Lock [3].



- 7. Disconnect the grounding [1] and grounding [2] (only for models with ADF).
 - 2 Screws [3]

- 8. Open and remove the ADF Unit/Copyboard + Reader Unit [4].
 - 2 Hooks [5]





Separating the ADF Unit/ Copyboard + Reader Unit

Preparation

- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)
- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)
- 4. Remove the ADF Unit/Copyboard + Reader Unit. (Refer to "Removing the ADF Unit/Copyboard + Reader Unit" on page 121)

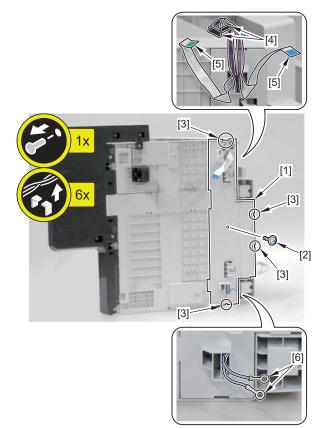
Procedure

CAUTION:

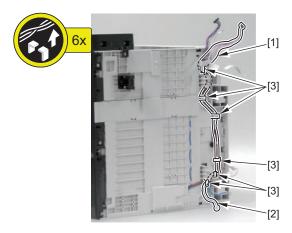
Be sure to perform "After replacing ADF unit (Refer to "After Replacing the ADF Units" on page 124)" and "After replacing reader unit (Refer to "After Replacing the Reader Unit" on page 124)" when replacing the ADF Unit and Reader Unit, respectively. 1. Place the ADF Unit and Reader Unit in the open status as shown in the figure below (only for models with ADF).



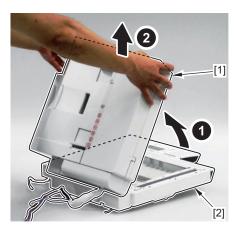
- 2. Remove the Reader Unit Lower Cover [1] (only for models with ADF).
 - 1 Screw [2]
 - 4 Claws [3]
 - 2 Harnesses [4]
 - 2 Flat Cables [5]
 - 2 Grounding Wires [6]



- 3. Remove the cable [1] and the grounding wire [2] (only for models with ADF).
 - 6 wire guides [3]

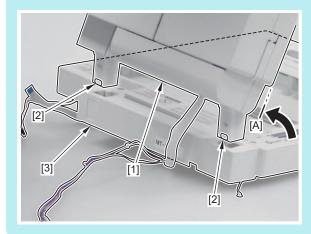


4. Open the ADF Unit/Copyboard and separeate it to the dirrection of the arrow from the Reader Unit [2].



NOTE:

If ADF Unit/Copyboard [1] is not opened to the position[A], it cannot be separate from the Reader Unit, because of the 2 claws [2].



After Replacing the ADF Units

- 1. Adjust the white level in the following service mode, and write the final setting values on the service label.
 - 1. Enter the values in the following service mode items respectively.
 - In COPIER > ADJUST > CCD > DFTAR-R, set "299".
 - In COPIER > ADJUST > CCD > DFTAR-G, set "309".
 - In COPIER > ADJUST > CCD > DFTAR-B, set "307".
 - In COPIER > ADJUST > CCD > DFTAR-BW, set "315".
 - 2. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode (color))
 - 3. Place the same blank paper on the ADF, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode (color))
 - 4. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W))
 - 5. Place the same blank paper on the ADF again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W))
 - 6. If the operation was successful, write the setting value on the service label.
 - Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation is successful or not.
 - COPIER > ADJUST > CCD > DFTAR-R (Adjustment of shading target value (R) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-G (Adjustment of shading target value (G) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-B (Adjustment of shading target value (B) at ADF reading)

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

- 8. If the operation result is "failed", turn OFF and then ON the power, execute
 - COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode: color) and then execute
 - COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode: color)

again.

- 9. Checking the value of DFTAR-BW Check the value of
 - COPIER > ADJUST > CCD > DFTAR-BW (Adjustment of shading target value (B&W) at ADF reading)

If the value remains the same as the value you entered, the operation result is judged to be "failed".

- 10. If the operation result is "failed", turn OFF and then ON the power, execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W)) and then execute
 - COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W)) again.

2. ADF geometric adjustment

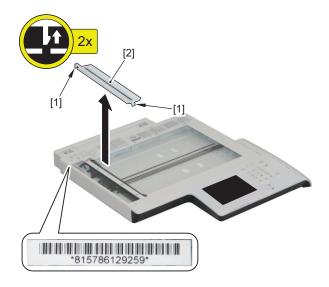
 On an image copied using the ADF, check the nonimage width in the X and Y directions and the expansion/contraction in the X direction. In the case of E353MGMH, perform 2-sided original reading from the ADF.

If adjustment is needed, enter necessary adjustment values in the following service mode:

- COPIER > ADJUST > ADJ-XY > ADJ-Y-DF (Adj img pstn in ADF mode:horz scan)
- FEEDER > ADJUST > DOCST (Fine adjustment of VSYNC timing at ADF reading [front side])
- FEEDER > ADJUST > LA-SPD (Fine adjustment of magnification ratio in vertical scanning direction at ADF stream reading [front side])
- 2. If you enter adjustment values, write the final values on the service label.

After Replacing the Reader Unit

1. Release the 2 claws [1], remove the Scoop-up Sheet Holder [2], and check the setting values of the Standard White Plate indicated under the barcode that was hidden beneath the Scoop-up Sheet Holder.



- 2. Enter the X, Y, and Z values indicated under the barcode on the Copyboard Glass in
 - COPIER > ADJUST > CCD > W-PLT-X (White level data (X) entry of white plate) ,
 - COPIER > ADJUST > CCD > W-PLT-Y (White level data (Y) entry of white plate), and
 - COPIER > ADJUST > CCD > W-PLT-Z (White level data (Z) entry of white plate) ,

and then write the entered values (the the X, Y, and Z values shown under the barcode on the Copyboard Glass) on the service label.

NOTE:

The value of W-PLT-X: The first four digits of the value on the label

The value of W-PLT-Y: The four digits in the middle of the value on the label

The value of W-PLT-Z: The last four digits of the value on the label

3. Return the Scoop-up Sheet to its original position.

4. AGC adjustment

- 1. Entering a provisional value
 - Change the foregoing values to "1,000".
 - COPIER > ADJUST > CCD > LED-BW-R (Adjustment of LED light-up time (R) at B&W reading)
 - COPIER > ADJUST > CCD > LED-BW-G (Adjustment of LED light-up time (G) at B&W reading)
 - COPIER > ADJUST > CCD > LED-BW-B (Adjustment of LED light-up time (B) at B&W reading)

Change the foregoing values to "1,200"

- COPIER > ADJUST > CCD > LED-CL-R (Adjustment of LED light-up time (R) at color reading)
- COPIER > ADJUST > CCD > LED-CL-G (Adjustment of LED light-up time (G) at color reading)
- COPIER > ADJUST > CCD > LED-CL-B (Adjustment of LED light-up time (B) at color reading)
- 2. Adjust the white level in the following service mode.
 - COPIER > FUNCTION > CCD > BW-AGC (CIS intensity adjustment in ADF (B&W))
 - COPIER > FUNCTION > CCD > CL-AGC (CIS intensity adjustment in ADF (color))
- 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 > LED-BW-R (Adjustment of LED light-up time (R) at B&W reading)
- COPIER > ADJUST > CCD > LED-BW-G (Adjustment of LED light-up time (G) at B&W reading)
- COPIER > ADJUST > CCD > LED-BW-B (Adjustment of LED light-up time (B) at B&W reading)

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

- COPIER > ADJUST > CCD > LED-CL-R (Adjustment of LED light-up time (R) at color reading)
- COPIER > ADJUST > CCD > LED-CL-G (Adjustment of LED light-up time (G) at color reading)
- COPIER > ADJUST > CCD > LED-CL-B (Adjustment of LED light-up time (B) at color reading)

Check the foregoing values. If all of them remain "1,200", the operation result is judged to be "failed". If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > CL-AGC again.

5. Automatic adjustment of the stream reading position

- 1. Entering a provisional value Set the value of
 - COPIER > ADJUST > ADJ-XY > STRD-POS (Adjustment of reading position at ADF stream reading)

to "-20".

2. Automatic adjustment of the stream reading position

Execute

 COPIER > FUNCTION > INSTALL > STRD-POS (Scan position auto adj in ADF mode)
 the operation was successful write the value of

If the operation was successful, write the value of STRD-POS on the service label.

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

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

Check the value of

 COPIER > ADJUST > ADJ-XY > STRD-POS (Adjustment of reading position at ADF stream reading)

If it remains "-20", the operation is judged to be "failed".

If the operation is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > INSTALL > STRD-POS again.

6. Adjust the white level in the following service mode, and write the final setting values on the service label.

- 1. Enter the values in the following service mode items respectively.
 - In COPIER > ADJUST > CCD > DFTAR-R, set "299".
 - In COPIER > ADJUST > CCD > DFTAR-G, set "309".
 - In COPIER > ADJUST > CCD > DFTAR-B, set "307".
 - In COPIER > ADJUST > CCD > DFTAR-BW, set "315".

2. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader, and execute

- COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode (color))
- 3. Place the same blank paper on the ADF, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode (color))
- 4. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W))
- 5. Place the same blank paper on the ADF again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W))
- 6. If the operation was successful, write the setting value on the service label.

- Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation is successful or not.
 - COPIER > ADJUST > CCD > DFTAR-R (Adjustment of shading target value (R) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-G (Adjustment of shading target value (G) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-B (Adjustment of shading target value (B) at ADF reading)

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

- 8. If the operation result is "failed", turn OFF and then ON the power, execute
 - COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode: color)

and then execute

- COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode: color) again.
- Checking the value of DFTAR-BW Check the value of
 - COPIER > ADJUST > CCD > DFTAR-BW (Adjustment of shading target value (B&W) at ADF reading)

If the value remains the same as the value you entered, the operation result is judged to be "failed".

- 10. If the operation result is "failed", turn OFF and then ON the power, execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W)) and then execute
 - COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W)) again.

7. Copyboard color displacement offset adjustment

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

Enter the values of 50-RG, 50-GB, 100-RG, and 100-GB shown on the replacement label in the following service mode, and write the entered values on the service label.

- COPIER > ADJUST > CCD > 50-RG (Color displacement (R and G lines) correction value in the vertical scanning direction (50%))
- COPIER > ADJUST > CCD > 50-GB (Color displacement (G and B lines) correction value in the vertical scanning direction (50%))
- COPIER > ADJUST > CCD > 100-RG (Color displacement (R and G lines) correction value in the vertical scanning direction (100%))
- COPIER > ADJUST > CCD > 100-GB (Color displacement (G and B lines) correction value in the vertical scanning direction (100%))

8. 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 in the following service mode, and write the entered values on the service label.

- COPIER>ADJUST>PASCAL>OFST-P-Y (Y density adj at test print reading)
- COPIER>ADJUST>PASCAL>OFST-P-M (M density adj at test print reading)
- COPIER>ADJUST>PASCAL>OFST-P-C (C density adj at test print reading)
- COPIER>ADJUST>PASCAL>OFST-P-B (Bk density adj at test print reading)

9. Copyboard geometric adjustment

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

- COPIER > ADJUST > ADJ-XY > ADJ-X (Adj of img pstn in book mode: vert scan)
- COPIER > ADJUST > ADJ-XY > ADJ-Y (Adj of img pstn in book mode: (horizontal scanning direction)
- COPIER > ADJUST > ADJ-XY > ADJ-X-MG (Fine adj image ratio: vertical scanning)

Enter the values in the foregoing service mode.

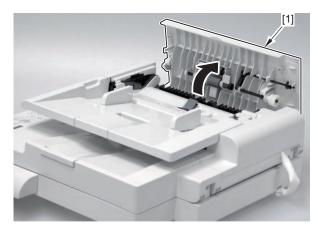
10. ADF geometric adjustment

- On an image copied using the ADF, check the nonimage width in the X and Y directions and the expansion/contraction in the X direction. In the case of E353MGMH, perform 2-sided original reading from the ADF. If adjustment is needed, enter necessary adjustment values in the following service mode:
 - COPIER > ADJUST > ADJ-XY > ADJ-Y-DF (Adj img pstn in ADF mode:horz scan)
 - FEEDER > ADJUST > DOCST (Fine adjustment of VSYNC timing at ADF reading [front side])
 - FEEDER > ADJUST > LA-SPD (Fine adjustment of magnification ratio in vertical scanning direction at ADF stream reading [front side])
- 2. If you enter adjustment values, write the final values on the service label.

Removing the ADF Roller Unit (MF628Cw/626Cn/624Cw/623Cn)

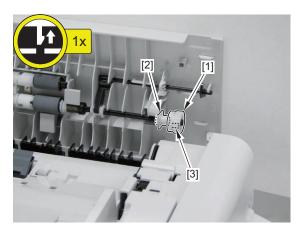
Procedure

CAUTION: Do not touch the surface of the roller. 1. Open the ADF Upper Cover [1].

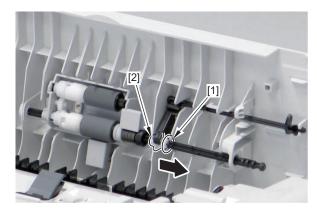


2. Remove the gear [1] and the bushing [2].

1 claw [3]

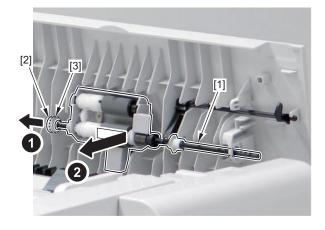


3. Remove the plastic E-ring [1] and slide the bushing [2].



4. Remove the ADF Roller Unit [1].

- 1 plastic E-ring [2]
- 1 bushing [3]



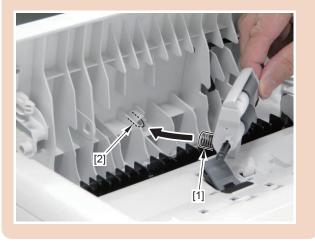
CAUTION:

Be careful not to lose the spring [1] attached to the ADF Roller Unit.



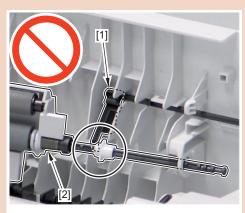
CAUTION:

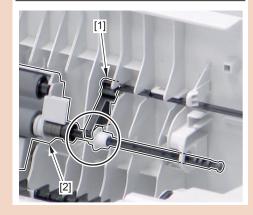
When installing, match the spring [1] of the ADF Roller Unit to the boss [2].



CAUTION:

Be sure to put the Sensor Flag [1] above the ADF Roller Unit [2] at installation work.





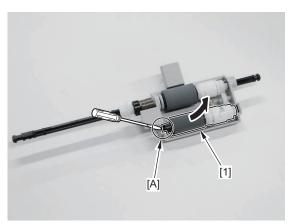
Removing the ADF Pickup Roller (MF628Cw/626Cn/624Cw/ 623Cn)

Preparation

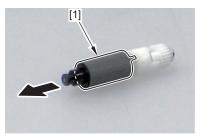
1. Remove the ADF roller unit. (Refer to "Removing the ADF Roller Unit (MF628Cw/626Cn/624Cw/623Cn) " on page 127)

Procedure

CAUTION: Do not touch the surface of the roller. Insert the end of the flat-blade screwdriver into the [A] part to remove the ADF Pickup Roller Unit [1].



2. Remove the ADF Pickup Roller [1].



Removing the ADF separation roller (MF628Cw/626Cn/624Cw/ 623Cn)

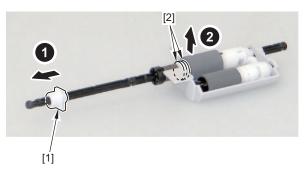
Preparation

1. Remove the ADF roller unit. (Refer to "Removing the ADF Roller Unit (MF628Cw/626Cn/624Cw/623Cn) " on page 127)

Procedure

CAUTION: Do not touch the surface of the roller.

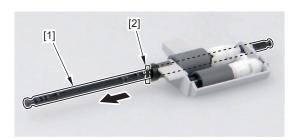
1. Remove the bushing [1] and 2 plastic e-rings [2].



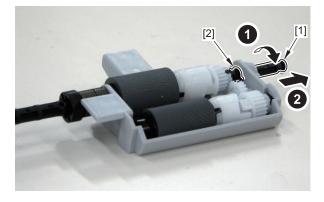
2. Slide the Roller Shaft [1] to remove the parallel pin [2].

CAUTION:

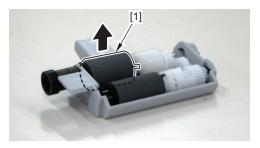
Be careful not to lose the parallel pin [2] at assembly/ disassembly.



3. Turn the Roller Shaft [1] in the direction of the arrow and fit the projection [2] to the hole of the Roller Holder to remove.



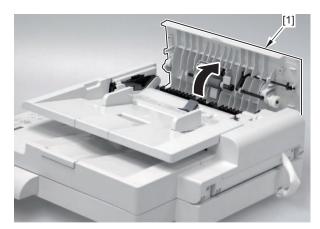
4. Remove the ADF Separation Roller [1].



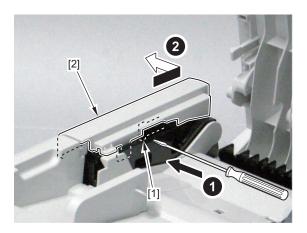
Removing the ADF Separation Pad (MF628Cw/626Cn/624Cw/ 623Cn)

Procedure

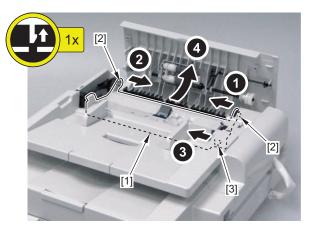
CAUTION: Do not touch the surface of the roller or pad. 1. Open the ADF Upper Cover [1].



2. Unhook the hook [1] using the flat-head screw driver and remove the ADF Front Cover [1] in the direction of the arrow.

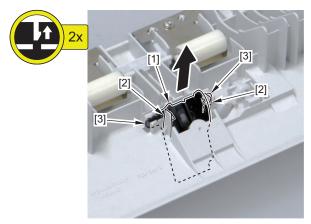


- 3. Remove the Feed Guide [1] in the direction of the arrow.
 - 2 bosses [2]
 - 1 claw [3]



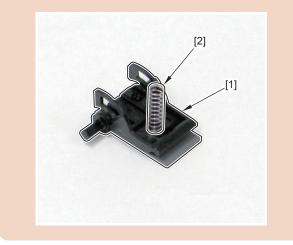
4. Reverse the Feed Guide.

- 5. Remove the Separation Pad Holder [1].
 - 2 Claws [2]
 - 2 Shafts [3]



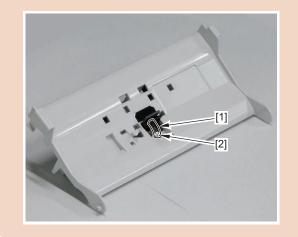
CAUTION:

Be careful not to lose the spring [2] attached to the Separation Pad Holder [1].



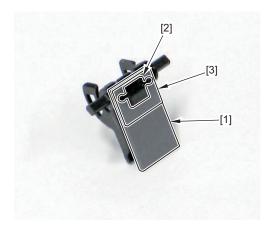
CAUTION:

When installing, match the spring [1] to the boss [2] of the Feed Guide.



6. Remove the Separation Pad [1].

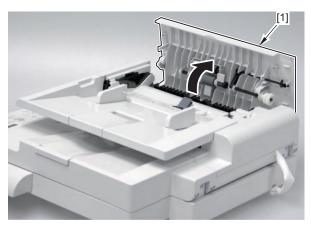
- Pad retainer [2]
- Sheet [3]



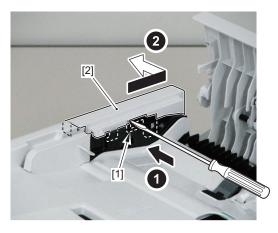
Removing the ADF Pickup Feed Unit (MF628Cw/626Cn/ 624Cw/623Cn)

Procedure

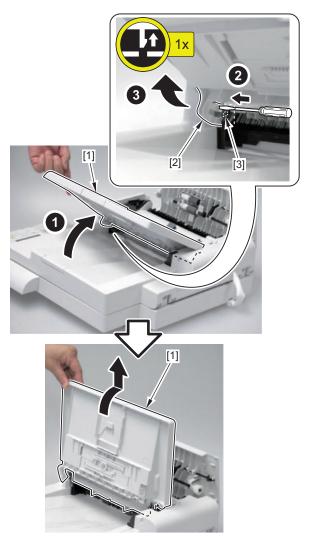
1. Open the ADF Upper Cover [1].



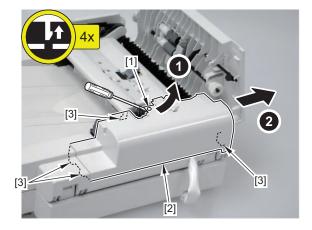
2. Remove the hook [1] using flat-head driver, and remove the ADF Front Cover [2] in the direction of the arrow.



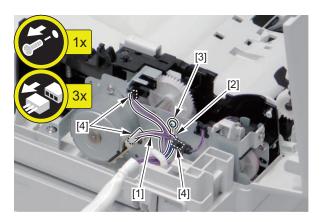
- 3. Lift the ADF Tray [1] until it stops and release the hook [2] to tip the tray into the perpendicular position and remove by pulling upward.
 - 1 Claw [3]



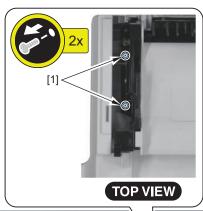
- 4. Remove the boss [1] to remove the ADF Rear Cover[2] in the direction of the arrow.
 - 4 claws [3]

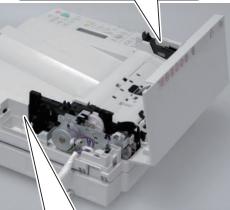


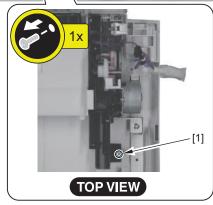
- 5. Remove the harness [1] and the grounding cord [2].
 - 1 screw (binding) [3]
 - 3 connectors [4]



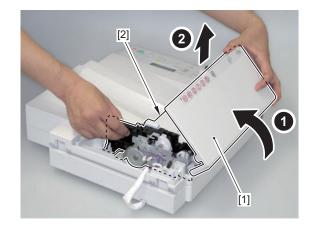
6. Remove the 3 screws [1] of the ADF Pickup Feed Unit.



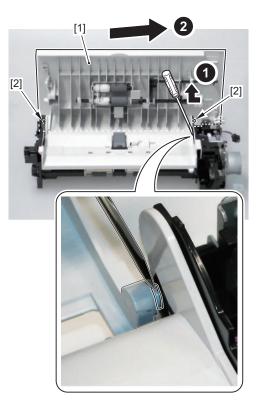




7. Close the ADF Upper Cover [1] to remove the ADF Pickup Feed Unit [2].



- 8. Remove the ADF Upper Cover Unit [1].
 - 2 bosses [2]



Removing the ADF Pickup Motor (MF628Cw/626Cn/624Cw/ 623Cn)

Preparation

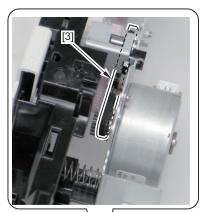
1. Remove the ADF Pickup Feed Unit. (Refer to "Removing the ADF Pickup Feed Unit (MF628Cw/ 626Cn/624Cw/623Cn)" on page 131)

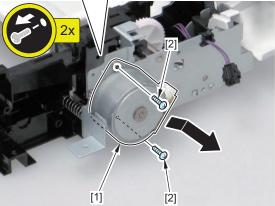
Procedure

NOTE:

When removing the ADF Pickup Motor, it is not necessary to remove the ADF Upper Cover Unit described in the previous step.

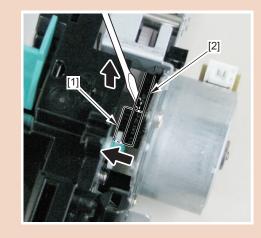
- 1. Remove the ADF Motor [1] in the direction of the arrow.
 - 2 screws [2]
 - 1 belt [3]





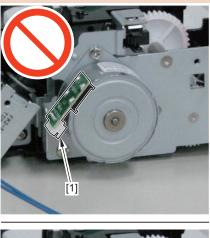
CAUTION:

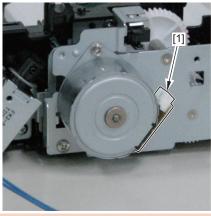
When installing the ADF Pickup Motor, be sure to hook the gear [1] of the motor on the belt [2].



CAUTION:

When installing the ADF Pickup Motor, be sure to install with the connector [1] on the right side.





Removing the Scoopup sheet holder

Preparation

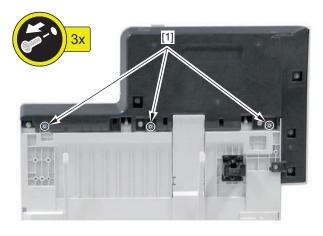
- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)
- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)
- 4. Remove the ADF Unit/Copyboard + Reader Unit. (Refer to "Removing the ADF Unit/Copyboard + Reader Unit" on page 121)
- 5. Separate the ADF Unit/Copyboard + Reader Unit. (Refer to "Separating the ADF Unit/Copyboard + Reader Unit" on page 122)

Procedure

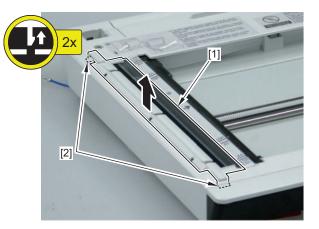
CAUTION:

Be sure to perform "After Replacing the Scoopup sheet holder (Refer to "After Replacing the Scoopup Sheet Holder" on page 134)" when replacing the Scoopup sheet holder, respectively.

1. Remove the 3 screws [1] at the bottom of the Reader Unit.



2. Remove the Scoopup sheet holder [1].
2 claws [2]



After Replacing the Scoopup Sheet Holder

1. Automatic adjustment of the stream reading position

- 1. Entering a provisional value Set the value of
 - COPIER > ADJUST > ADJ-XY > STRD-POS (Adjustment of reading position at ADF stream reading)
 - to "-20".
- 2. Automatic adjustment of the stream reading position

Execute

• COPIER > FUNCTION > INSTALL > STRD-

POS (Scan position auto adj in ADF mode) If the operation was successful, write the value of STRD-POS on the service label. 3. How to judge whether the operation was successful or failed

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

Check the value of

 COPIER > ADJUST > ADJ-XY > STRD-POS (Adjustment of reading position at ADF stream reading)

If it remains "-20", the operation is judged to be "failed".

If the operation is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > INSTALL > STRD-POS again.

2. Adjust the white level in the following service mode, and write the final setting values on the service label.

- 1. Enter the values in the following service mode items respectively.
 - In COPIER > ADJUST > CCD > DFTAR-R, set "299".
 - In COPIER > ADJUST > CCD > DFTAR-G, set "309".
 - In COPIER > ADJUST > CCD > DFTAR-B, set "307".
 - In COPIER > ADJUST > CCD > DFTAR-BW, set "315".

2. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader, and execute

- COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode (color))
- 3. Place the same blank paper on the ADF, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode (color))
- 4. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W))
- 5. Place the same blank paper on the ADF again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W))
- 6. If the operation was successful, write the setting value on the service label.

- Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation is successful or not.
 - COPIER > ADJUST > CCD > DFTAR-R (Adjustment of shading target value (R) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-G (Adjustment of shading target value (G) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-B (Adjustment of shading target value (B) at ADF reading)

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

- 8. If the operation result is "failed", turn OFF and then ON the power, execute
 - COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode: color)

and then execute

 COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode: color) again.

9. Checking the value of DFTAR-BW

- Check the value of
 - COPIER > ADJUST > CCD > DFTAR-BW (Adjustment of shading target value (B&W) at ADF reading)

If the value remains the same as the value you entered, the operation result is judged to be "failed".

- 10. If the operation result is "failed", turn OFF and then ON the power, execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W)) and then execute
 - COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W)) again.

Removing the Reader Unit Upper Cover

Preparation

- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)
- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)
- 4. Remove the ADF Unit/Copyboard + Reader Unit. (Refer to "Removing the ADF Unit/Copyboard + Reader Unit" on page 121)
- 5. Separate the ADF Unit/Copyboard + Reader Unit. (Refer to "Separating the ADF Unit/Copyboard + Reader Unit" on page 122)

6. Remove the Scoopup sheet holder. (Refer to "Removing the Scoopup sheet holder" on page 134)

Procedure

CAUTION:

Be sure to perform "After Replacing the Reader Upper Cover Unit (Refer to "After Replacing the Reader Upper Cover Unit" on page 136)" when replacing the Reader Upper Cover Unit, respectively.

CAUTION:

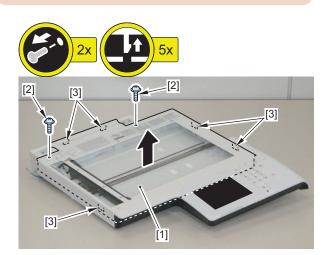
To replace the Copyboard Glass, be sure to replace the Copyboard Glass together with the Reader Unit Upper Cover.

1. Remove the Reader Unit Upper Cover [1].

- 2 screw [2]
- 5 claws [3]

CAUTION:

Because the Copyboard Glass [2] is attached to the Upper Cover [1], be careful not to drop or damage the Upper Cover.



After Replacing the Reader Upper Cover Unit

1. Enter the X, Y, and Z values indicated under the barcode on the Copyboard Glass in



- COPIER > ADJUST > CCD > W-PLT-X (White level data (X) entry of white plate),
- COPIER > ADJUST > CCD > W-PLT-Y (White level data (Y) entry of white plate), and
- COPIER > ADJUST > CCD > W-PLT-Z (White level data (Z) entry of white plate),

and then write the entered values (the the X, Y, and Z values shown under the barcode on the Copyboard Glass) on the service label.

NOTE:

The value of W-PLT-X: The first four digits of the value on the label

The value of W-PLT-Y: The four digits in the middle of the value on the label

The value of W-PLT-Z: The last four digits of the value on the label

2. AGC adjustment

- 1. Entering a provisional value Change the foregoing values to "1,000".
 - COPIER > ADJUST > CCD > LED-BW-R (Adjustment of LED light-up time (R) at B&W reading)
 - COPIER > ADJUST > CCD > LED-BW-G (Adjustment of LED light-up time (G) at B&W reading)
 - COPIER > ADJUST > CCD > LED-BW-B (Adjustment of LED light-up time (B) at B&W reading)

Change the foregoing values to "1,200"

- COPIER > ADJUST > CCD > LED-CL-R (Adjustment of LED light-up time (R) at color reading)
- COPIER > ADJUST > CCD > LED-CL-G (Adjustment of LED light-up time (G) at color reading)
- COPIER > ADJUST > CCD > LED-CL-B (Adjustment of LED light-up time (B) at color reading)

- 2. Adjust the white level in the following service mode.
 - COPIER > FUNCTION > CCD > BW-AGC (CIS intensity adjustment in ADF (B&W))
 - COPIER > FUNCTION > CCD > CL-AGC (CIS intensity adjustment in ADF (color))
- 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 > LED-BW-R (Adjustment of LED light-up time (R) at B&W reading)
- COPIER > ADJUST > CCD > LED-BW-G (Adjustment of LED light-up time (G) at B&W reading)
- COPIER > ADJUST > CCD > LED-BW-B (Adjustment of LED light-up time (B) at B&W reading)

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

- COPIER > ADJUST > CCD > LED-CL-R (Adjustment of LED light-up time (R) at color reading)
- COPIER > ADJUST > CCD > LED-CL-G (Adjustment of LED light-up time (G) at color reading)
- COPIER > ADJUST > CCD > LED-CL-B (Adjustment of LED light-up time (B) at color reading)

Check the foregoing values. If all of them remain "1,200", the operation result is judged to be "failed". 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. Automatic adjustment of the stream reading position

1. Entering a provisional value

Set the value of

 COPIER > ADJUST > ADJ-XY > STRD-POS (Adjustment of reading position at ADF stream reading)

to "-20".

2. Automatic adjustment of the stream reading position

Execute

 COPIER > FUNCTION > INSTALL > STRD-POS (Scan position auto adj in ADF mode)

If the operation was successful, write the value of STRD-POS on the service label.

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

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

Check the value of

 COPIER > ADJUST > ADJ-XY > STRD-POS (Adjustment of reading position at ADF stream reading)

If it remains "-20", the operation is judged to be "failed".

If the operation is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > INSTALL > STRD-POS again.

4. Adjust the white level in the following service mode, and write the final setting values on the service label.

- 1. Enter the values in the following service mode items respectively.
 - In COPIER > ADJUST > CCD > DFTAR-R, set "299".
 - In COPIER > ADJUST > CCD > DFTAR-G, set "309".
 - In COPIER > ADJUST > CCD > DFTAR-B, set "307" .
 - In COPIER > ADJUST > CCD > DFTAR-BW, set "315".
- 2. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode (color))
- 3. Place the same blank paper on the ADF, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode (color))
- 4. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W))
- 5. Place the same blank paper on the ADF again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W))
- 6. If the operation was successful, write the setting value on the service label.

- Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation is successful or not.
 - COPIER > ADJUST > CCD > DFTAR-R (Adjustment of shading target value (R) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-G (Adjustment of shading target value (G) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-B (Adjustment of shading target value (B) at ADF reading)

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

- 8. If the operation result is "failed", turn OFF and then ON the power, execute
 - COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode: color)
 - and then execute
 - COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode: color)

again.

- 9. Checking the value of DFTAR-BW Check the value of
 - COPIER > ADJUST > CCD > DFTAR-BW (Adjustment of shading target value (B&W) at ADF reading)

If the value remains the same as the value you entered, the operation result is judged to be "failed".

- 10. If the operation result is "failed", turn OFF and then ON the power, execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W))

and then execute

 COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W))

again.

5. Copyboard geometric adjustment

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

- COPIER > ADJUST > ADJ-XY > ADJ-X (Adj of img pstn in book mode: vert scan)
- COPIER > ADJUST > ADJ-XY > ADJ-Y (Adj of img pstn in book mode: (horizontal scanning direction)
- COPIER > ADJUST > ADJ-XY > ADJ-X-MG (Fine adj image ratio: vertical scanning)

Enter the values in the foregoing service mode.

Removing the CIS Unit

Preparation

- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)

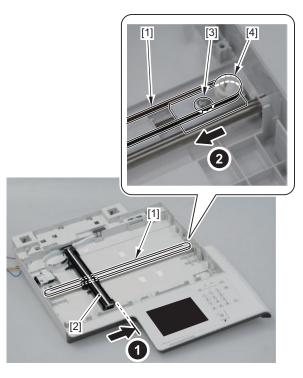
- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)
- 4. Remove the ADF Unit/ Copyboard + Reader Unit. (Refer to "Removing the ADF Unit/Copyboard + Reader Unit" on page 121)
- 5. Separate the ADF Unit/ Copyboard + Reader Unit. (Refer to "Separating the ADF Unit/Copyboard + Reader Unit" on page 122)
- 6. Remove the Reader Unit Upper Cover Unit. (Refer to "Removing the Reader Unit Upper Cover" on page 135)

Procedure

CAUTION:

Be sure to perform "After replacing CIS unit (Refer to "After replacing CIS units" on page 140)" when replacing the CIS unit, respectively.

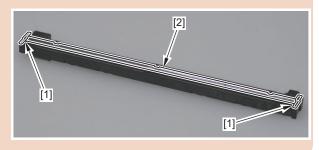
- 1. Pull the Drive Belt [1] to move the CIS Unit [2].
- 2. Loosen the screw [3] and move the Pulley Holder [4] in the direction of the arrow to remove the Drive Belt [1].

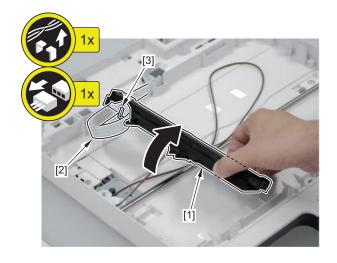


- 3. Remove the CIS Unit Mount [1] and remove the flat cable [2].
 - 1 guide [3]

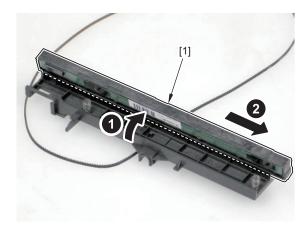
CAUTION:

- When assembling/ disassembling the copyboard glass, take care not to lose the 2 CIS unit spacers [1].
- When assembling/ disassembling the copyboard glass, do not touch the copy reading area [2] of the CIS unit.



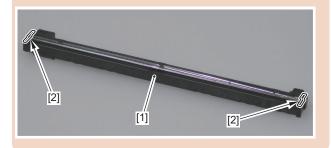


4. Bring up the CIS Unit [1] to remove in the direction of the arrow.



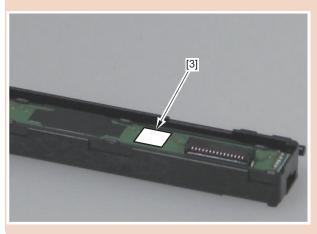
CAUTION:

When replacing the CIS Unit [1], be sure to replace the CIS Unit [1] and the CIS Spacer [2], which are included in the package of the service part, at the same time. If a different spacer is used, image reading error may occur.



CAUTION:

When installing the CIS Unit [1], be sure to replace the CIS Spacer [2] together with the CIS Unit [1] (included in the package of the Service Parts).



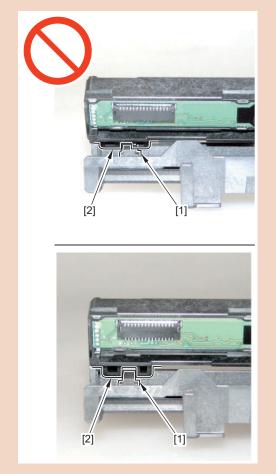
CAUTION:

When the CIS Spacers are mixed up or lost, check the CIS Rank Label [3] to use, and use the appropriate CIS Spacer that fits the rank of the CIS Unit.

Rank	Color of spacer	Dimension (Height of spacer)
rank A	light gray	1.17 mm
rank B	dark gray	1.27 mm
rank C	brown	1.37 mm

CAUTION:

When installing the CIS Unit, be sure to check that the projection [1] is fitted to the dent [2] to install.



After replacing CIS units

1. AGC adjustment

- 1. Entering a provisional value Change the foregoing values to "1,000".
 - COPIER > ADJUST > CCD > LED-BW-R (Adjustment of LED light-up time (R) at B&W reading)
 - COPIER > ADJUST > CCD > LED-BW-G (Adjustment of LED light-up time (G) at B&W reading)
 - COPIER > ADJUST > CCD > LED-BW-B (Adjustment of LED light-up time (B) at B&W reading)

Change the foregoing values to "1,200"

- COPIER > ADJUST > CCD > LED-CL-R (Adjustment of LED light-up time (R) at color reading)
- COPIER > ADJUST > CCD > LED-CL-G (Adjustment of LED light-up time (G) at color reading)
- COPIER > ADJUST > CCD > LED-CL-B (Adjustment of LED light-up time (B) at color reading)
- 2. Adjust the white level in the following service mode.
 - COPIER > FUNCTION > CCD > BW-AGC (CIS intensity adjustment in ADF (B&W))
 - COPIER > FUNCTION > CCD > CL-AGC (CIS intensity adjustment in ADF (color))
- 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 > LED-BW-R (Adjustment of LED light-up time (R) at B&W reading)
- COPIER > ADJUST > CCD > LED-BW-G (Adjustment of LED light-up time (G) at B&W reading)
- COPIER > ADJUST > CCD > LED-BW-B (Adjustment of LED light-up time (B) at B&W reading)

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

- COPIER > ADJUST > CCD > LED-CL-R (Adjustment of LED light-up time (R) at color reading)
- COPIER > ADJUST > CCD > LED-CL-G (Adjustment of LED light-up time (G) at color reading)
- COPIER > ADJUST > CCD > LED-CL-B (Adjustment of LED light-up time (B) at color reading)

Check the foregoing values. If all of them remain "1,200", the operation result is judged to be "failed". If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > CL-AGC again.

2. Automatic adjustment of the stream reading position

- 1. Entering a provisional value
 - Set the value of
 - COPIER > ADJUST > ADJ-XY > STRD-POS (Adjustment of reading position at ADF stream reading)
 - to "-20".
- 2. Automatic adjustment of the stream reading position

Execute

 COPIER > FUNCTION > INSTALL > STRD-POS (Scan position auto adj in ADF mode)
 If the operation was successful, write the value of STRD-POS on the service label. 3. How to judge whether the operation was successful or failed

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

Check the value of

 COPIER > ADJUST > ADJ-XY > STRD-POS (Adjustment of reading position at ADF stream reading)

If it remains "-20", the operation is judged to be "failed".

If the operation is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > INSTALL > STRD-POS again.

3. Adjust the white level in the following service mode, and write the final setting values on the service label.

- 1. Enter the values in the following service mode items respectively.
 - In COPIER > ADJUST > CCD > DFTAR-R, set "299".
 - In COPIER > ADJUST > CCD > DFTAR-G, set "309".
 - In COPIER > ADJUST > CCD > DFTAR-B, set "307" .
 - In COPIER > ADJUST > CCD > DFTAR-BW, set "315".
- 2. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode (color))
- 3. Place the same blank paper on the ADF, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode (color))
- 4. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W))
- 5. Place the same blank paper on the ADF again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W))
- 6. If the operation was successful, write the setting value on the service label.

- 7. Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation is successful or not.
 - COPIER > ADJUST > CCD > DFTAR-R (Adjustment of shading target value (R) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-G (Adjustment of shading target value (G) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-B (Adjustment of shading target value (B) at ADF reading)

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

- 8. If the operation result is "failed", turn OFF and then ON the power, execute
 - COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode: color)
 - and then execute
 - COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode: color)

again.

- Checking the value of DFTAR-BW Check the value of
 - COPIER > ADJUST > CCD > DFTAR-BW (Adjustment of shading target value (B&W) at ADF reading)

If the value remains the same as the value you entered, the operation result is judged to be "failed".

- 10. If the operation result is "failed", turn OFF and then ON the power, execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W))

and then execute

 COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W))

again.

4. Copyboard geometric adjustment

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

- COPIER > ADJUST > ADJ-XY > ADJ-X (Adj of img pstn in book mode: vert scan)
- COPIER > ADJUST > ADJ-XY > ADJ-Y (Adj of img pstn in book mode: (horizontal scanning direction)
- COPIER > ADJUST > ADJ-XY > ADJ-X-MG (Fine adj image ratio: vertical scanning)

Enter the values in the foregoing service mode.

5. ADF geometric adjustment

 On an image copied using the ADF, check the nonimage width in the X and Y directions and the expansion/contraction in the X direction. In the case of E353MGMH, perform 2-sided original reading from the ADF. If adjustment is needed, enter necessary

adjustment values in the following service mode:

- COPIER > ADJUST > ADJ-XY > ADJ-Y-DF (Adj img pstn in ADF mode:horz scan)
- FEEDER > ADJUST > DOCST (Fine adjustment of VSYNC timing at ADF reading [front side])
- FEEDER > ADJUST > LA-SPD (Fine adjustment of magnification ratio in vertical scanning direction at ADF stream reading [front side])
- 2. If you enter adjustment values, write the final values on the service label.

Removing the Reader Scanner Motor

Preparation

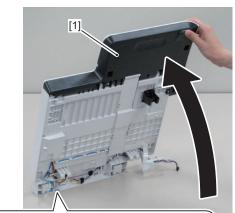
- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)
- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)
- 4. Remove the ADF Unit/ Copyboard + Reader Unit. (Refer to "Removing the ADF Unit/Copyboard + Reader Unit" on page 121)
- 5. Separate the ADF Unit/Copyboard + Reader Unit. (Refer to "Separating the ADF Unit/Copyboard + Reader Unit" on page 122)
- 6. Remove the Reader Unit Upper Cover. (Refer to "Removing the Reader Unit Upper Cover" on page 135)

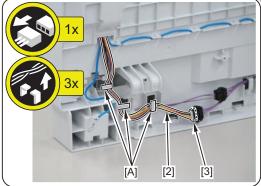
Procedure

- 1. Free the harness [2] while holding the Reader Unit [1].
 - 1 Connector [3]
 - 3 Harness Guides at the [A] location

CAUTION:

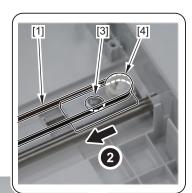
To prevent parts on the top side of the Reader Unit, do not tip the Reader Unit [1] into the perpendicular position.

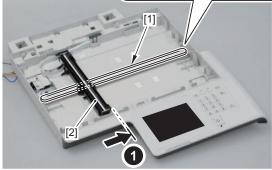




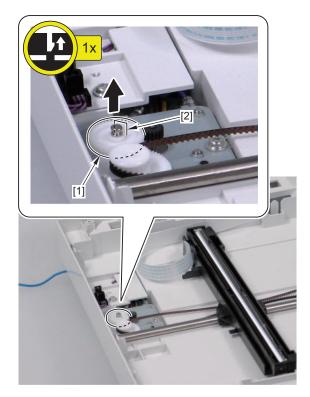
2. Pull the Drive Belt [1] to move the CIS Unit [2].

3. Loosen the screw [3] and move the Pulley Holder [4] in the direction of the arrow to remove the Drive Belt [1].



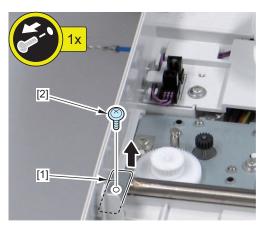


4. Remove the gear [1].1 claw [2]

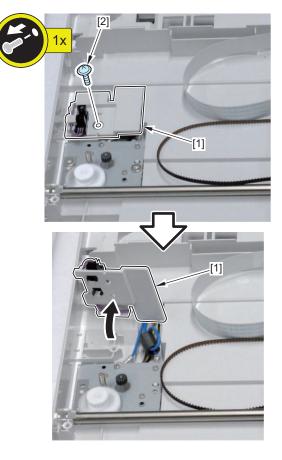


5. Remove the Shaft Retaining Plate [1].

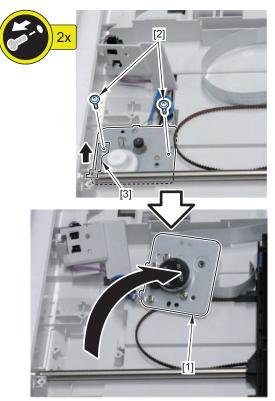
• 1 screw [2]



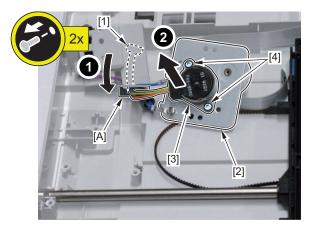
- 6. Move the Sensor Mount [1].
 - 1 screw [2]



- 7. Move the Motor Mounting Plate [1] and turn it over.
 - 2 screws [2]
 - 1 Grounding Plate [3]



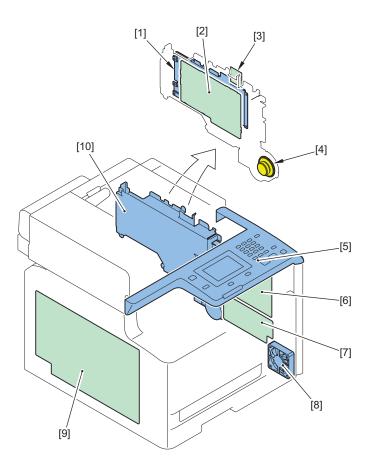
- 8. Pass the connector [1] through the hole [A].
- 9. Remove the Reader Scanner Motor [3] from the Motor Mounting Plate [2].
 - 2 screws [4]



Controller System

Location

1/2

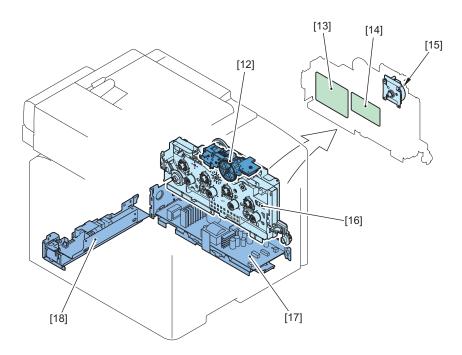


No.	Parts Name	Main Unit	Remarks	Reference	Adjustment during parts replacement
[1]	Controller Cover	Product Configuration		"Removing the Controller Cover" on page 147	-
[2]	Main Controller PCB	Product Configuration	UN8	"Removing the Main Con- troller PCB" on page 147	"Before Replacing the Main Controller PCB" on page 147 "After Replacing the Main Controller PCB" on page 149
[3]	Wireless LAN PCB	Product Configuration	MF628Cw / 624Cw : UN1	"Removing the Wireless LAN PCB (MF628Cw/ 624Cw)" on page 147	-
[4]	Speaker	Product Configuration	MF628Cw / 626Cn : SP1	"Removing the Speaker (MF628Cw/ 626Cn)" on page 171	-
[5]	Control Panel Unit	Product Configuration		"Removing the Control Panel Unit" on page 160	-
[6]	DC Controller PCB	Product Configuration	UN2	"Removing the DC Control- ler PCB" on page 152	"Before Replacing the DC Controller PCB" on page 152 "After Replacing the DC Controller PCB" on page 152
[7]	Driver PCB	Product Configuration	UN7	"Removing the Driver PCB" on page 153	-

4. Disassembly/Assembly

No.	Parts Name	Main Unit	Remarks	Reference	Adjustment during parts replacement
[8]	Fan	Product Configuration	FM1	"Removing the Fan" on page 170	-
[9]	High Voltage Power Supply PCB	Product Configuration	UN3	"Removing the High Volt- age Power Supply PCB" on page 158	-
[10]	Main Controller Sup- port Plate	Product Configuration		"Removing the Main Con- troller Support Plate" on page 151	-

2/2



No.	Parts Name	Main Unit	Remarks	Reference	Adjustment dur- ing parts replace- ment
[12]	Sub Drive Unit	Product Configuration	-	"Removing the Sub Drive Unit" on page 168	-
[13]	FAX-NCU PCB	Product Configuration	MF628Cw / 626Cn : UN9	"Removing the FAX PCB (MF628Cw/ 626Cn)" on page 161	-
[14]	Off Hook PCB	Product Configuration	MF628Cw / 626Cn : UN12	"Removing the Off Hook PCB (MF628Cw/ 626Cn)" on page 162	-
[15]	Main Motor	Product Configuration	M701	"Removing the Main Motor" on page 169	-
[16]	Main Drive Unit	Main Drive Unit	-	"Removing the Main Drive Unit" on page 162	-
[17]	Low Voltage Power Supply Unit	Product Configuration	-	"Removing the Low Voltage Power Supply Unit" on page 155	-
[18]	Fixing Power Supply Unit	Product Configuration	-	"Removing the Fixing Power Supply Unit" on page 159	-

Controller System Disassembly/ Assembly Procedure

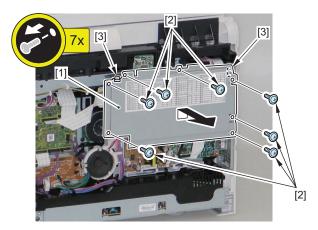
Removing the Controller Cover

Preparation

1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)

Procedure

- 1. Remove the Controller Cover [1].
 - 7 Screws [2]
 - 2 Hooks [3]



Removing the Wireless LAN PCB (MF628Cw/624Cw)

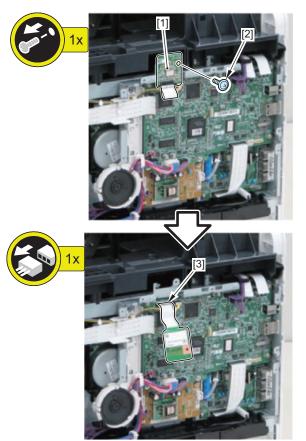
Preparation

- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Controller Cover. (Refer to "Removing the Controller Cover" on page 147)

Procedure

1. Remove the Wireless LAN PCB [1].

- 1 Screw [2]
- 1 Flat Cable [3]



Removing the Main Controller PCB

CAUTION:

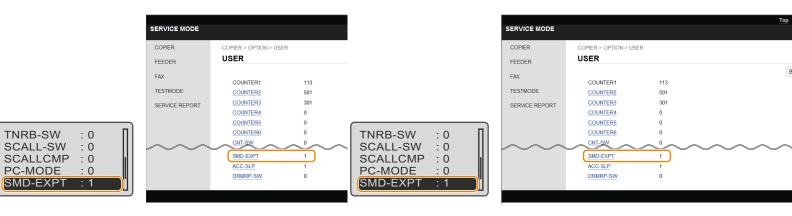
When replacing the Main Controller PCB, be sure to perform the works to be done before replacing the Main Controller PCB (Refer to "Before Replacing the Main Controller PCB" on page 147) and the works be done after replacing the Main Controller PCB (Refer to "After Replacing the Main Controller PCB" on page 149).

Before Replacing the Main Controller PCB

Back up user data (settings, registered data, etc.) and service mode data for setting and registration after PCB replacement. Take notes if data is unable to back up.

1. Enter service mode, and set the following item to "1".

• COPIER > OPTION > USER > SMD-EXPT



NOTE:

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

- 2. Using the DCM function (Refer to "Setting Information Export/Import Function (DCM)" on page 57), export the following information.
 - User data (the settings of the [Settings/ Registration] menu and the address book)
 - · Service mode setting information
- 3. Write down the following information because these settings need to be configured (entered) after replacing the PCB.
 - The default settings shown on the service label [1]
 - · The machine's serial number
 - Settings/Registration > System Settings > Device Information> Location

NOTE:

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

4. Enter service mode, and set the following item to "0".

COPIER > OPTION > USER > SMD-EXPT

Preparation

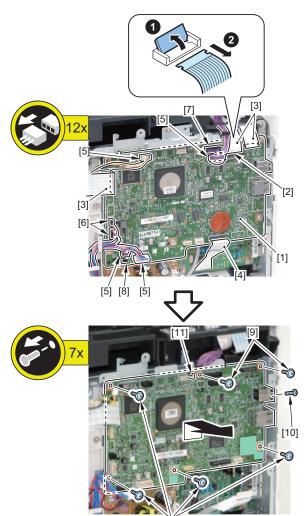
- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Controller Cover. (Refer to "Removing the Controller Cover" on page 147)
- 3. Remove the Wireless LAN PCB. (MF628Cw/ 624Cw only) (Refer to "Removing the Wireless LAN PCB (MF628Cw/624Cw)" on page 147)



Procedure

1. Remove the Main Controller PCB [1].

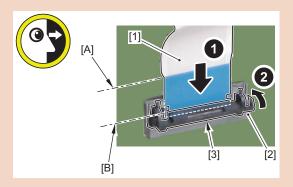
- 1 Flat Cable Connector Lock [2]
- 3 Flat Cables [3]
- 1 Flat Cables [4] (Fax model only)
- 4 Connectors [5]
- 2 Connectors [6] (Fax model only)
- 1 Connector [7] (ADF model only)
- 1 Connector [8] (MF628Cw 230V, MF623Cn 230V only)
- 6 Screws [9] (TP)
- 1 Screw [10] (Binding)
- 1 Hook [11]



[9]

CAUTION:

When connecting the Flat Cable, be sure to perform the following; while pushing the Flat Cable [1] against the connector with a lock [2], check that the line on the edge [A] of the Flat Cable Connector and the line on the edge [B] of the Flat Cable Connector Lock are parallel, and then close the Flat Cable Connector Lock [3].



After Replacing the Main Controller PCB

1. Setting of destination/paper size group

 COPIER > OPTION > BODY > LOCALE (to set destination groups) [Settings]

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

 COPIER > OPTION > BODY > SIZE-LC (to set paper size groups) [Settings]
 AB series, 2: Inch series, 3: A series, 4: AB/Inch series

2. Executing initial settings.

Perform the following procedure to change the settings back to the initial settings.

- Execute the following service mode to initialize the data according to the setting values in step 1. COPIER > FUNCTION > CLEAR > ALL (to clear all data)
 - Setting / Registration data (the default value for each destination is set).
 - Service mode data (the default value for each destination is set).
 - Job IDs
 - Log data
 - Dates
- Execute the following service mode to clear the reader/DF-related factory adjustment values.
 COPIER > FUNCTION > CLEAR > R-CON

3. AGC adjustment

- 1. Entering a provisional value
 - Change the foregoing values to "1,000".
 - COPIER > ADJUST > CCD > LED-BW-R (Adjustment of LED light-up time (R) at B&W reading)
 - COPIER > ADJUST > CCD > LED-BW-G (Adjustment of LED light-up time (G) at B&W reading)
 - COPIER > ADJUST > CCD > LED-BW-B (Adjustment of LED light-up time (B) at B&W reading)

Change the foregoing values to "1,200"

- COPIER > ADJUST > CCD > LED-CL-R (Adjustment of LED light-up time (R) at color reading)
- COPIER > ADJUST > CCD > LED-CL-G (Adjustment of LED light-up time (G) at color reading)
- COPIER > ADJUST > CCD > LED-CL-B (Adjustment of LED light-up time (B) at color reading)
- 2. Adjust the white level in the following service mode.
 - COPIER > FUNCTION > CCD > BW-AGC (CIS intensity adjustment in ADF (B&W))
 - COPIER > FUNCTION > CCD > CL-AGC (CIS intensity adjustment in ADF (color))
- 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 > LED-BW-R (Adjustment of LED light-up time (R) at B&W reading)
- COPIER > ADJUST > CCD > LED-BW-G (Adjustment of LED light-up time (G) at B&W reading)
- COPIER > ADJUST > CCD > LED-BW-B (Adjustment of LED light-up time (B) at B&W reading)

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

- COPIER > ADJUST > CCD > LED-CL-R (Adjustment of LED light-up time (R) at color reading)
- COPIER > ADJUST > CCD > LED-CL-G (Adjustment of LED light-up time (G) at color reading)
- COPIER > ADJUST > CCD > LED-CL-B (Adjustment of LED light-up time (B) at color reading)

Check the foregoing values. If all of them remain "1,200", the operation result is judged to be "failed". If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > CL-AGC again.

4. Executing initial adjustment.

Follow the procedure shown below to execute initial adjustment and enter the factory adjustment values.

- Enter default setting values indicated on the service label in the corresponding service mode items.
- Execute the following service mode to back up the DC Controller setting values.
 COPIER > FUNCTION > VIFFNC > STOR-DCN
- 3. The initial installation mode will be activated by turning OFF and then ON the power. Configure the following settings according to the instruction on the screen.
 - Setting of date/time
 - Auto-gradation correction
- Correction of coordinate position of Touch Panel in the following service mode.
 COPIER > ADJUST > PANEL > TOUCHCHK

5. Migrating the serial number

- Enter the serial number (8-digit alphanumeric) in Settings/Registration > System Settings > Device Information > Location.
- Execute the following service mode, and write the serial number entered in the previous step on the Main Controller PCB.
 COPIER > OPTION > SERIAL > SN-MAIN

After it has been written, the serial number entered in "Location" is deleted.

- 3. Turn OFF and then ON the main power.
- Execute the following service mode, and check the serial number on the System Management Data List that was output (Body. No.).
 COPIER > FUNCTION > MISC-P > SPEC

6. Migrating user data and service mode data

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

NOTE:

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

- Using the DCM function (Refer to "Setting Information Export/Import Function (DCM)" on page 57), restore the following information.
 - age 57), restore the following information
 - User data (the settings of the [Settings/ Registration] menu and the address book)
 - Service mode setting information
- 3. Enter service mode, and set the following item to "0".
 - COPIER > OPTION > USER > SMD-EXPT

NOTE:

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

7. Reinstall the drivers.

- 1. Uninstalling Old Drivers.
 - Printer Driver
 - FAX Driver
 - Scanner Driver
 - Network Scan Utility. (for machines with network connection)
 * As for the procedure, refer to "Uninstalling the
- Software" in the Starter Guide. 2. Refer to the following items in the Startup Guide and install the drivers which were uninstalled.
 - In case of network connection: "Installing via Network Connection"
 - In case of USB connection: "Installing with USB Connection"

NOTE:

MAC address information is changed after replacement of the Main Controller PCB. Therefore, when the PC and the machine are connected by the network, the PC will not be able to recognize the machine on the network. When the PC and the machine are connected by the USB memory device, the PC will not be able to recognize the machine if the USB ID is changed. It becomes therefore necessary to reinstall the driver.

In the case of a model without fax for EUR (MF623Cn), perform the following works.

NOTE:

After replacing the Main Controller PCB, the value of the service mode (SDTM-DSP) to set whether to display or hide the automatic shutdown menu becomes "0" (default value). In that case, the automatic shutdown menu is not displayed on the LUI of the machine. To display the automatic shutdown menu on the LUI of the machine, it is necessary to execute this process.

- Setting of automatic shutdown menu display Set 1 for automatic shutdown menu display in service mode (default: 0). COPIER > OPTION > BODY > SDTM-DSP
- 9. Turn OFF and then ON the main power.
- 10. Checking the setting of Auto Sleep Time
 In setting menu, check that the setting value of Auto Sleep Time is 1. (If the setting value is 0, automatic shutdown does not work.)
 Menu > Timer Settings > Auto Shutdown Time

Removing the Main Controller Support Plate

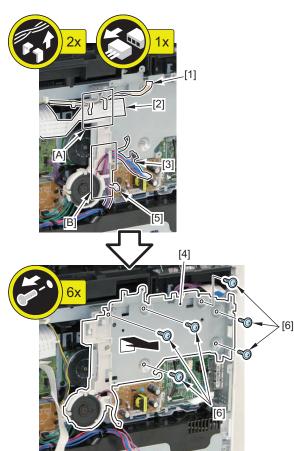
Preparation

1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)

- 2. Remove the Controller Cover. (Refer to "Removing the Controller Cover" on page 147)
- 3. Remove the Wireless LAN PCB. (MF628Cw/ 624Cw only) (Refer to "Removing the Wireless LAN PCB (MF628Cw/624Cw)" on page 147)
- 4. Remove the Main Controller PCB. (Refer to "Removing the Main Controller PCB" on page 147)

Procedure

- 1. Free the harness [1] and Flat Cable [2].
 - Guide [A]
- 2. Free the harness [3] and remove the Main Controller Support Plate [4].
 - 1 Connector [5] (Fax model only)
 - Guide [B]
 - 6 Screws [6]



Removing the DC Controller PCB

CAUTION:

When replacing the DC Controller PCB, be sure to perform the works to be done before replacing the DC Controller PCB (Refer to "Before Replacing the DC Controller PCB" on page 152) and the works be done after replacing the DC Controller PCB (Refer to "After Replacing the DC Controller PCB" on page 152).

Before Replacing the DC Controller PCB

1. Execute the following service mode to restore the DC Controller setting values that were backed up in the previous step.

COPIER > FUNCTION > VIFFNC > STOR-DCN

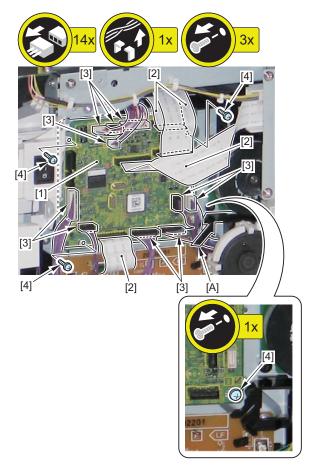
Preparation

1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)

Procedure

1. Remove the DC Controller PCB [1].

- 4 Flat Cables [2]
- 10 Connectors [3]
- Harness Guide [A]
- 4 Screws [4]



After Replacing the DC Controller PCB

1. In service mode, perform the following procedure to restore the DC Controller setting values.

COPIER > FUINCTION > VIFFNC > RSTR-DCN When restoration is executed, "ACTIVE" will be displayed, and then "OK!" will be displayed in about 2 minutes at the completion of restoration.

- 2. When backup data cannot be uploaded before replacement due to reasons such as damage of the DC Controller PCB, enter the value of each service mode item described on the service label.
- 3. Turn OFF and then ON the power.
- 4. Configure the following settings from the Control Panel.
 - Menu > Adjustment/Maintenance > Print Color Displacement Correction
 - Menu > Adjustment/Maintenance > Auto Gradation Correction > Quick Correction
- 5. Turn OFF and then ON the power.

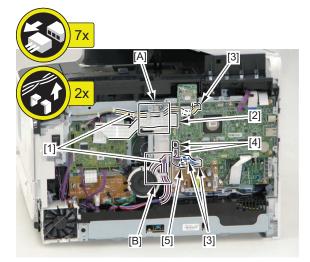


Preparation

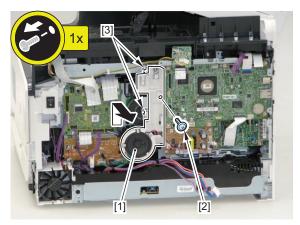
- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Controller Cover. (Refer to "Removing the Controller Cover" on page 147)

Procedure

- 1. Free the harness [1] and 1 Flat Cable [2].
 - 3 Connectors [3]
 - 2 Connectors [4] (Fax model only)
 - 1 Connectors [5] (MF628Cw 230V, MF623Cn 230V only)
 - 1 Harness Guide [A]
 - 1 Harness Guide [B]

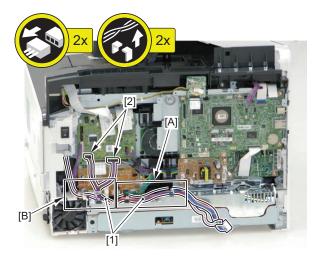


- 2. Remove the Speaker Holder [1].
 - 1 Screws [2]
 - 2 Hooks [3]

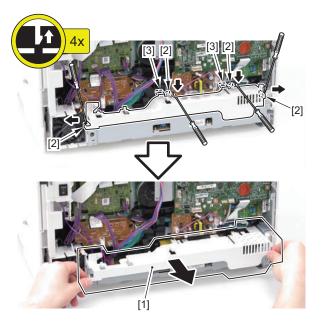


3. Free the harness [1].

- 2 Connectors [2]
- 1 Harness Guide [A]
- 1 Harness Guide [B]

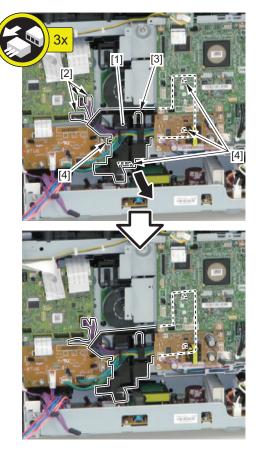


- 4. Remove the Low Voltage Power Supply Unit Cover [1].
 - 4 Claws [2]
 - 2 Protrusions [3]



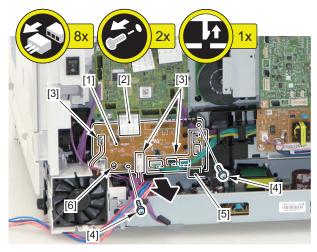
5. Shift the Harness Guide [1].

- 3 Connectors [2]
- 1 Boss [3]
- 4 Hooks [4]



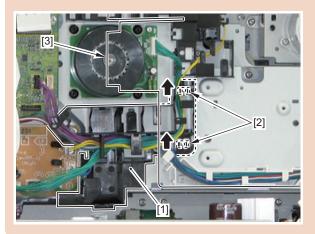
6. Remove the Driver PCB [1].

- 1 Flat Cable [2]
- 7 Connectors [3]
- 2 Screws [4]
- 1 Claw [5]
- 1 Hook [6]



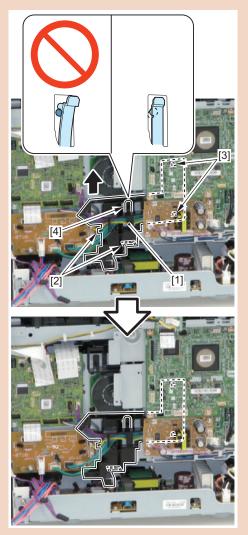
CAUTION:

When installing the Harness Guide [1] shifted in step 5 to the plate of the host machine, be sure to install it as shown in the figure below because the 2 hooks [2] are hidden under the Main Controller Support Plate [3].



CAUTION:

After moving the Harness Guide [1] in the direction of the arrow and hooking the 2 hooks [2] and the 2 hooks [3], insert the boss [4].



Removing the Low Voltage Power Supply Unit

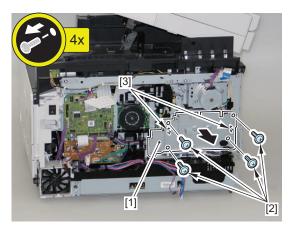
Preparation

- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)
- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)
- 4. Remove the Rear Lower Cover. (Refer to "Removing the Rear Lower Cover" on page 116)
- 5. Remove the Controller Cover. (Refer to "Removing the Controller Cover" on page 147)
- 6. Remove the Wireless LAN PCB. (MF628Cw/ 624Cw only) (Refer to "Removing the Wireless LAN PCB (MF628Cw/624Cw)" on page 147)

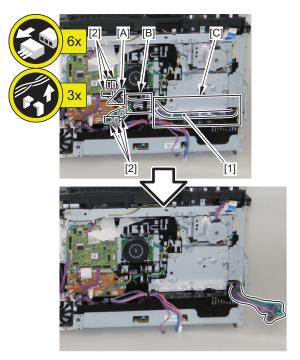
- 7. Remove the Main Controller PCB. (Refer to "Removing the Main Controller PCB" on page 147)
- Remove the Off Hook PCB. (Fax model only) (Refer to "Removing the Off Hook PCB (MF628Cw/ 626Cn)" on page 162)
- 9. Remove the Fax PCB. (Fax model only) (Refer to "Removing the FAX PCB (MF628Cw/ 626Cn)" on page 161)
- 10. Removing the Main Controller Support Plate. (Refer to "Removing the Main Controller Support Plate" on page 151)

Procedure

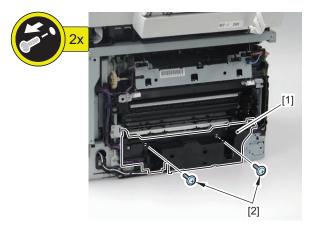
- 1. Remove the Fax PCB Mounting Plate [1].
 - 4 Screws [2]
 - 2 Hooks [3]



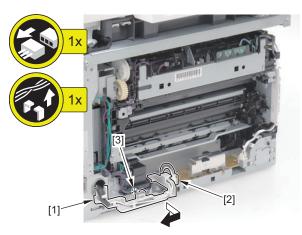
2. Free the harness [1] from the guides [A], [B], and [C].
6 Connectors [2]



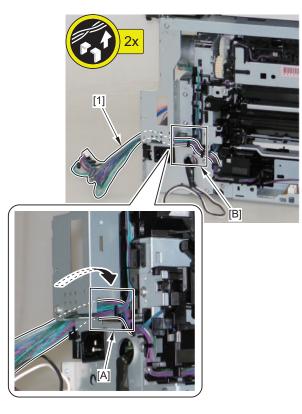
- 3. Remove the Fixing Power Supply Cover [1].
 - 2 Screws [2]



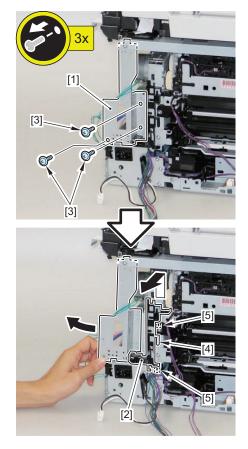
- 4. Remove the Harness Guide [1].
 - 1 Connector [2]
 - 1 Hook [3]



5. Free the harness [1] from the guide [B] by putting it through the hole [A] of the plate.

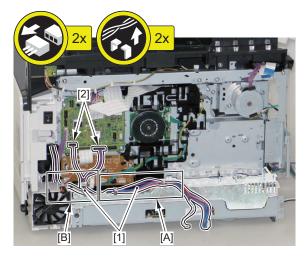


- 6. Shift the Fax Cover Plate [1], and remove the Harness Guide [2].
 - 3 Screws [3]
 - 1 Boss [4]
 - 2 Hooks [5]

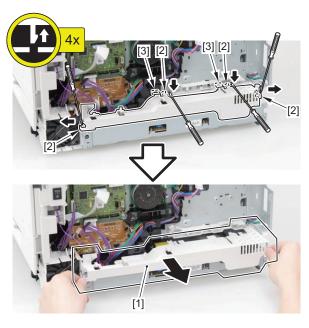


7. Free the harness [1].

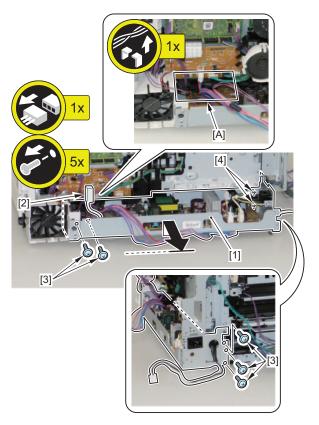
- 2 Connectors [2]
- 1 Harness Guide [A]
- 1 Harness Guide [B]



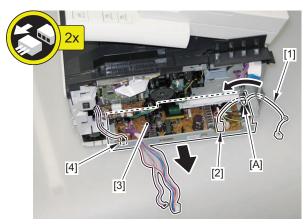
- 8. Remove the Low Voltage Power Supply Unit Cover [1].
 - 4 Claws [2]
 - 2 Protrusions [3]



- 9. Pull out the Low Voltage Power Supply Unit [1] for about 2 cm.
 - 1 Connector [2]
 - Harness Guide [A]
 - 5 Screws [3]
 - 2 Hooks [4]



- 10. Free the Power Supply Harness [1] by putting it through the hole [A] of the plate.
 - 1 Connector [2]
- 11. Remove the Low Voltage Power Supply Unit [3].
 - 1 Connector [4]



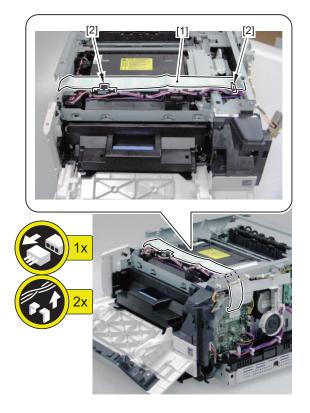
Removing the High Voltage Power Supply PCB

Preparation

- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)
- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)
- 4. Remove the ADF Unit/Copyboard + Reader Unit. (Refer to "Removing the ADF Unit/Copyboard + Reader Unit" on page 121)
- 5. Remove the Upper Cover. (Refer to "Removing the Upper Cover" on page 117)

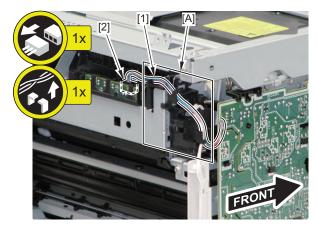
Procedure

- 1. Disconnect the flat cable [1].
 - 1 guide [2]

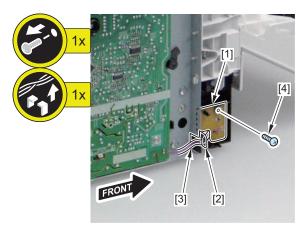


2. Remove the Harness [1].

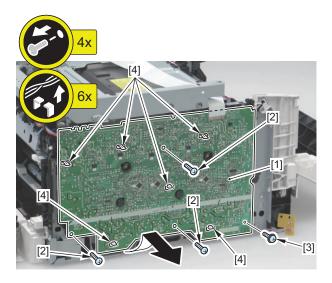
- 1 Connector [2]
- Harness Guide [A]



- 3. Remove the Sub PCB [1].
- 4. Free the harness [3] from the harness guide [2].1 screw [4]

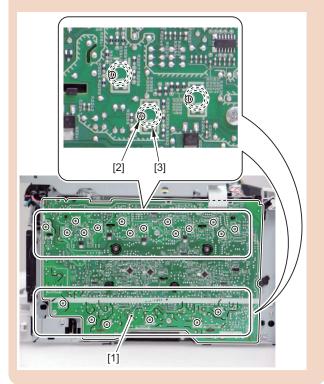


- 5. Remove the High Voltage Power Supply PCB [1].
 - 3 screws (binding) [2]
 - 1 screw (W SEMS) [3]
 - 6 claws [4]



CAUTION:

When installing the High Voltage Power Supply PCB [1], be sure to check that the contact springs [3] are in contact with the 20 round holes.



Removing the Fixing Power Supply Unit

Preparation

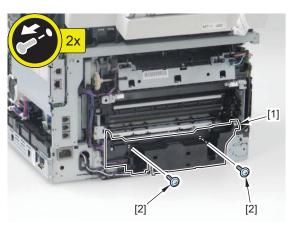
1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)

- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)
- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)
- 4. Remove the Rear Lower Cover. (Refer to "Removing the Rear Lower Cover" on page 116)

Procedure

1. Remove the Fixing Power Supply Cover [1].

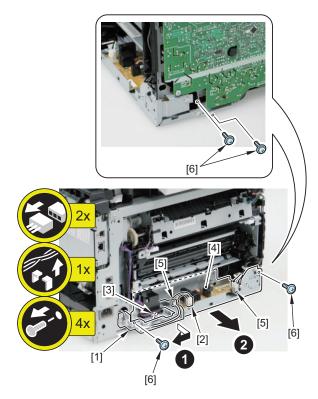
• 2 screws [2]



- 2. Remove the Harness Guide [1].
 - 1 Connector [2]
 - 1 Hook [3]

3. Remove the Fixing Power Supply Unit [4].

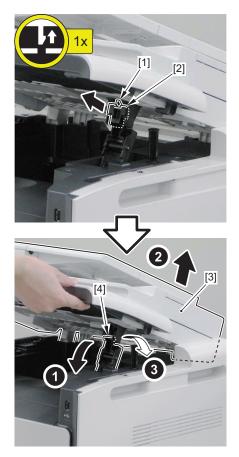
- 2 Connectors [5]
- 4 Screws [6]



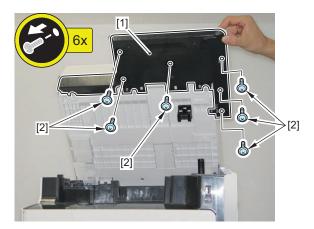
Removing the Control Panel Unit

Procedure

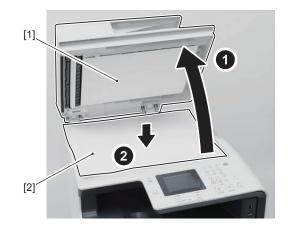
- 1. Remove the claw [1] to remove the Reader Shaft Retainer [2].
- 2. While supporting the ADF Unit/Copyboard + Reader Unit [3], remove the Reader Support Shaft [4].
- 3. Bring down the Reader Support Shaft [4] to close the ADF Unit/Copyboard + Reader Unit [3].



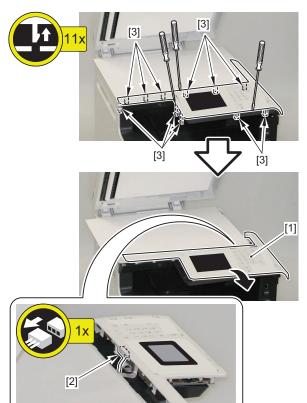
- 4. Remove the screws at the bottom of the Reader Unit [1].
 - 6 Screws [2]



5. Open the ADF Unit/Copyboard [1] and place a sheet of paper [2] on the copyboard.

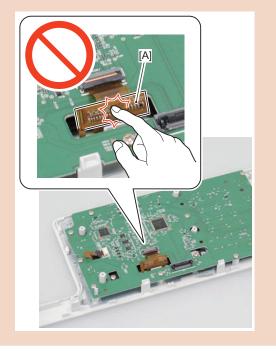


- 6. Shift the Control Panel Unit [1], and disconnect the Faston Connector [2].
 - 11 Claws [3]



CAUTION:

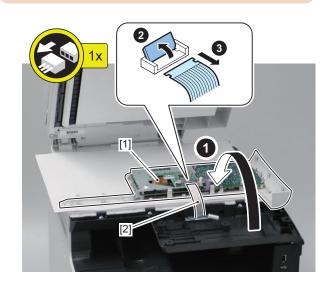
Do not touch the IC part [A] of the LCD Flat Cable [1].



7. Turn the Control Panel Unit [1] over, and disconnect the Flat Cable [2].

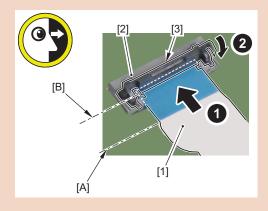
CAUTION:

Do not damage and cut the Flat Cable [2].



CAUTION:

When connecting the Flat Cable, be sure to perform the following; while pushing the Flat Cable [1] against the connector with a lock [2], check that the line on the edge [A] of the Flat Cable Connector and the line on the edge [B] of the Flat Cable Connector Lock are parallel, and then close the Flat Cable Connector Lock [3].



Removing the FAX PCB (MF628Cw/ 626Cn)

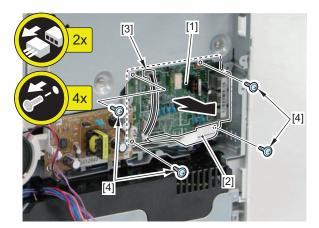
Preparation

- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Controller Cover. (Refer to "Removing the Controller Cover" on page 147)
- 3. Remove the Wireless LAN PCB. (MF628Cw/ 624Cw only) (Refer to "Removing the Wireless LAN PCB (MF628Cw/624Cw)" on page 147)

4. Remove the Main Controller PCB. (Refer to "Removing the Main Controller PCB" on page 147)

Procedure

- 1. Remove the Fax PCB [1].
 - 1 Flat Cable [2]
 - 1 Connector [3]
 - 4 Screws [4]



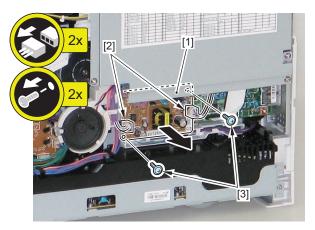
Removing the Off Hook PCB (MF628Cw/ 626Cn)

Preparation

1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)

Procedure

- 1. Remove the Off Hook PCB [1].
 - · 2 Connectors [2]
 - 2 Screws [3]



Removing the Main Drive Unit

Preparation

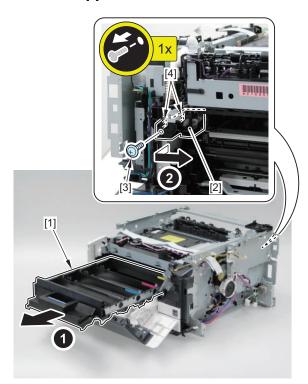
1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)

- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)
- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)
- 4. Remove the ADF Unit/ Copyboard + Reader Unit. (Refer to "Removing the ADF Unit/Copyboard + Reader Unit" on page 121)
- 5. Remove the Upper Cover. (Refer to "Removing the Upper Cover" on page 117)
- 6. Remove the DC Controller PCB. (Refer to "Removing the DC Controller PCB" on page 152)
- 7. Remove the Driver PCB. (Refer to "Removing the Driver PCB" on page 153)
- Remove the Wireless LAN PCB. (MF628Cw/ 624Cw only) (Refer to "Removing the Wireless LAN PCB (MF628Cw/624Cw)" on page 147)
- 9. Remove the Main Controller PCB. (Refer to "Removing the Main Controller PCB" on page 147)
- 10. Remove the Off Hook PCB. (Fax model only) Refer to "Removing the Off Hook PCB (MF628Cw/ 626Cn)" on page 162)
- 11. Remove the Fax PCB. (Fax model only) (Refer to "Removing the FAX PCB (MF628Cw/ 626Cn)" on page 161)
- 12. Remove the Main Controller Support Plate. (Refer to "Removing the Main Controller Support Plate" on page 151)
- 13. Remove the Low Voltage Power Supply Unit. (Refer to "Removing the Low Voltage Power Supply Unit" on page 155)

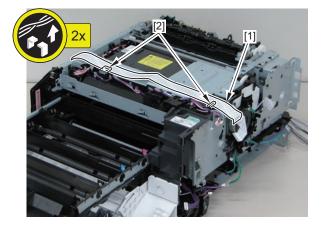
Procedure

1. Pull out the Cartridge Tray [1].

- 2. Remove the ITB Fixing Holder [2].
 - 1 Screw [3]
 - 2 Hooks [4]

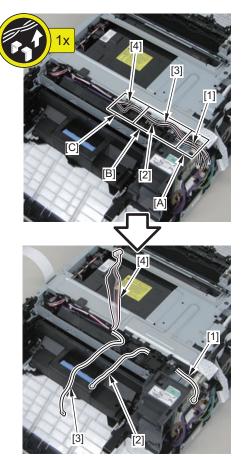


- 3. Disconnect the Flat Cable [1].
 - 2 Guides [2]

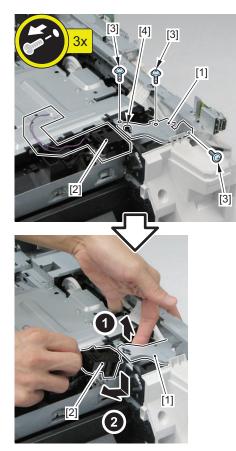


- 4. Free the harness [1] from the guide [A].
- 5. Free the harness [2] from the guides [A], and [B].

6. Free the harnesses [3] and [4] from the guides [A], [B], and [C].

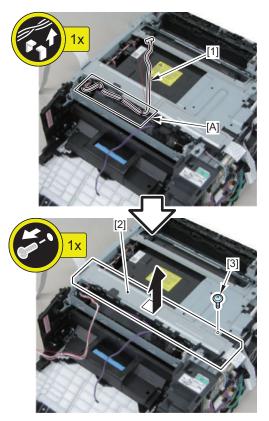


- 7. While lifting the Connecting Plate [1], remove the Flag Unit [2].
 - 3 Screws [3]
 - 1 Boss [4]

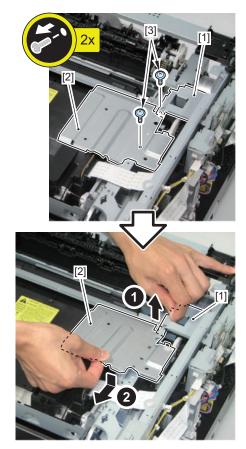


8. Free the harness [1] from the guide [A].

- 9. Remove the Harness Support Plate [2].
 - 1 Screw [3]



- 10. While lifting the Connecting Plate [1], remove the Sub Drive Unit Cover [2].
 - 2 Screws [3]

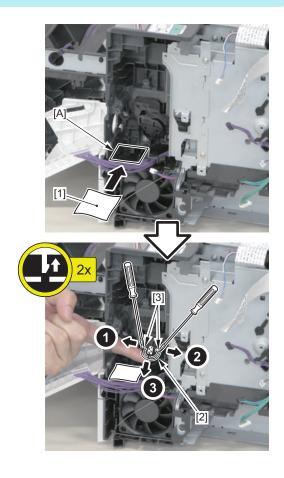


11. Place a sheet of paper [1] over the hole [A], and remove the Link Shaft Stopper [2].

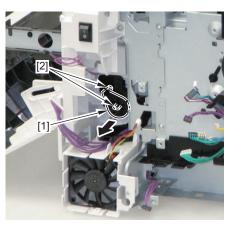
• 2 Claws [3]

NOTE:

The reason a sheet of paper [1] is placed over the hole [A] is to prevent the Link Shaft Stopper [2] from falling in the machine.

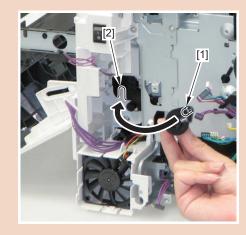


- 12. Remove the Link Shaft [1].
 - 2 Bosses [2]

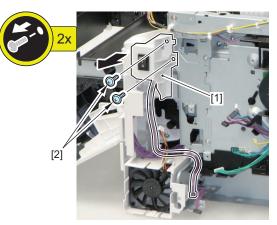


CAUTION:

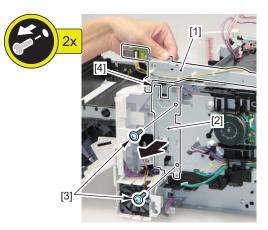
When installing the Link Shaft, be sure to fit the boss [1] of the Link Shaft to the groove [2] of the arm of the Main Drive Unit.



- 13. Remove the Main Switch Unit [1].
 - 2 Screws [2]

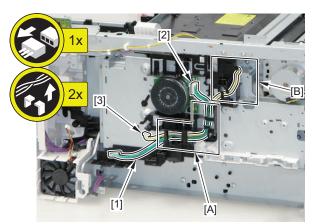


- 14. While lifting the Frame Plate [1], remove the DC Controller Support Plate [2].
 - 2 Screws [3]
 - 1 Protrusion [4]

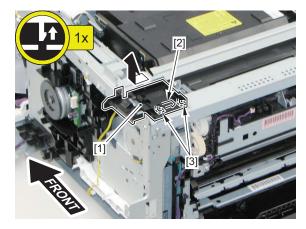


15. Free the harness [1].

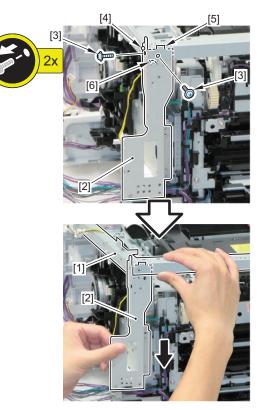
- 1 Connector [2]
- Guide [A]
- 16. Free the harness [3].
 - Guides [A] and [B]



- 17. Remove the Harness Guide [1].
 - 1 Claw [2]
 - 2 Hooks [3]

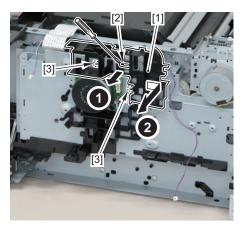


- 18. While lifting the Frame Plate [1], remove the Fax Cover Plate [2].
 - 2 Screws [3]
 - 1 Boss [4]
 - 1 Protrusion [5]
 - 1 Hook [6]



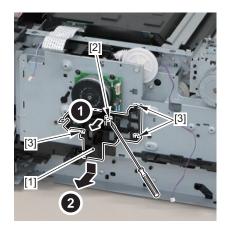
19. Remove the Harness Guide [1].

- 1 Boss [2]
- 2 Hooks [3]



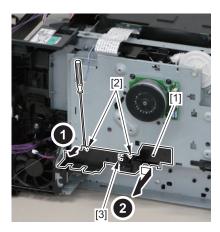
20. Remove the Harness Guide [1].

- 1 Boss [2]
- 3 Hooks [3]



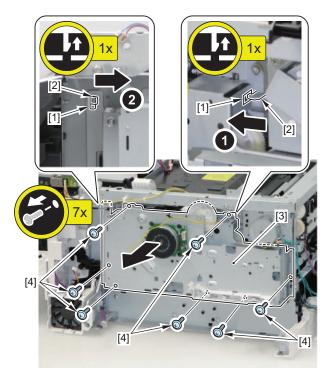
21. Remove the Harness Guide [1].

- 2 Bosses [2]
- 1 Hook [3]



22. Release the 2 hooks [1] of the Main Drive Unit from the claw [2] in the direction of the arrow, and remove the Main Drive Unit [3].

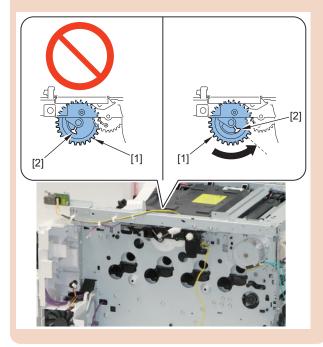
7 Screws [4]



CAUTION:

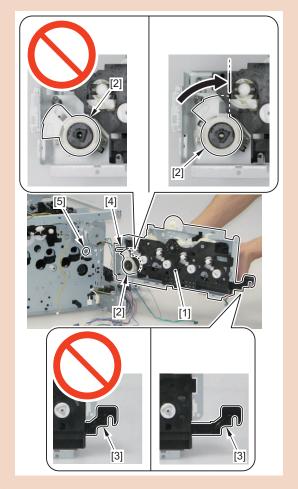
At installation, check that the hook [2] of the gear [1] of the Sub Drive Unit is in the correct position as shown in the figure below.

If not, rotate the gear [1] in the direction of the arrow to set the hook [2] in the correct position.



CAUTION:

- Be sure to check that the ITB Link [2] of the Main Drive Unit [1] is set at the correct position as shown in the figure below. If not, turn the ITB Link [2] in the direction of the arrow to be set at the correct position.
- Be sure to check that the Cartridge Cover Link [3] of the Main Drive Unit [1] is set at the correct position as shown in the figure below. If not, pull out the Cartridge Cover Link [3].
- Be sure to install the shaft [4] of the Main Drive Unit by fitting it in the hole [5] of the Side Plate.



Removing the Sub Drive Unit

Preparation

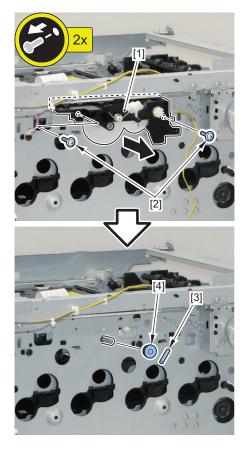
- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)
- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)
- 4. Remove the ADF Unit/ Copyboard + Reader Unit. (Refer to "Removing the ADF Unit/Copyboard + Reader Unit" on page 121)

- 5. Remove the Upper Cover. (Refer to "Removing the Upper Cover" on page 117)
- 6. Remove the DC Controller PCB. (Refer to "Removing the DC Controller PCB" on page 152)
- 7. Remove the Driver PCB. (Refer to "Removing the Driver PCB" on page 153)
- 8. Remove the Wireless LAN PCB. (MF628Cw/ 624Cw only) (Refer to "Removing the Wireless LAN PCB (MF628Cw/624Cw)" on page 147)
- 9. Remove the Main Controller PCB. (Refer to "Removing the Main Controller PCB" on page 147)
- 10. Remove the Off Hook PCB. (Fax model only) Refer to "Removing the Off Hook PCB (MF628Cw/ 626Cn)" on page 162)
- 11. Remove the Fax PCB. (Fax model only) (Refer to "Removing the FAX PCB (MF628Cw/ 626Cn)" on page 161)
- 12. Remove the Main Controller Support Plate. (Refer to "Removing the Main Controller Support Plate" on page 151)
- 13. Remove the Low Voltage Power Supply Unit. (Refer to "Removing the Low Voltage Power Supply Unit" on page 155)
- 14. Remove the Main Drive Unit. (Refer to "Removing the Main Drive Unit" on page 162)

Procedure

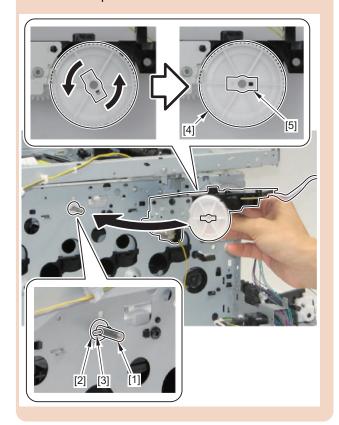
1. Remove the Sub Drive Unit [1].

- 2 Screws [2]
- 1 Parallel Pin [3]
- 1 Bushing [4]



CAUTION:

- When installing the Sub Drive Unit, go through the following steps.
 - 1. Install the bushing [2] and the Parallel Pin [3] to the shaft [1].
 - At installation, rotate the shaft [1] and the gear
 [4] to make the directions of the Parallel Pin
 [3] and the pin reception horizontally-aligned.
- Depending on the direction of the shaft [1], the Parallel Pin [3] may fall. Be careful not to drop or lose it.



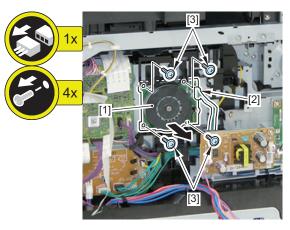
Removing the Main Motor

Preparation

- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Controller Cover. (Refer to "Removing the Controller Cover" on page 147)
- 3. Remove the Wireless LAN PCB. (MF628Cw/ 624Cw only) (Refer to "Removing the Wireless LAN PCB (MF628Cw/624Cw)" on page 147)
- 4. Remove the Main Controller PCB. (Refer to "Removing the Main Controller PCB" on page 147)
- 5. Remove the Main Controller Support Plate. (Refer to "Removing the Main Controller Support Plate" on page 151)

Procedure

- 1. Remove the Main Motor [1].
 - 1 Connector [2]
 - 4 Screws [3]



Removing the Fan

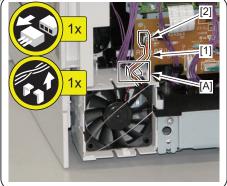
Preparation

1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)

Procedure

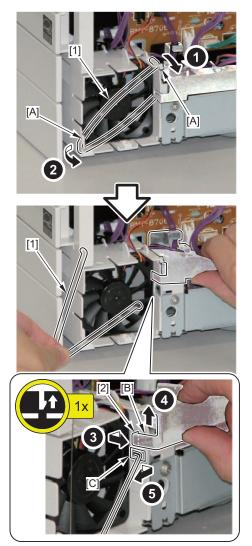
- 1. Free the harness [1].
 - 1 Connector [2]
 - Guide [A]





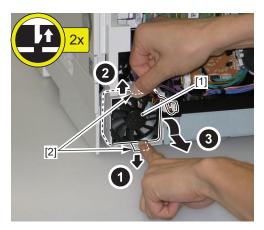
2. Free the Fan Retainer Spring [1] from the 2 guides [A] of the Fan Duct.

- 3. While sliding the edge [B] of the Low Voltage Power Supply Unit Cover, free the Fan Retainer Spring [1] from the hole [C] of the plate.
 - 1 Claw [2]



4. Remove the fan [1].

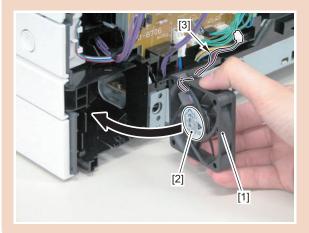
• 2 Claws [2]



CAUTION:

When installing the fan [1], be sure to set its orientation as shown in the figure below.

- Face the label [2] inside.
- Face the harness [3] upward.



Removing the Speaker (MF628Cw/ 626Cn)

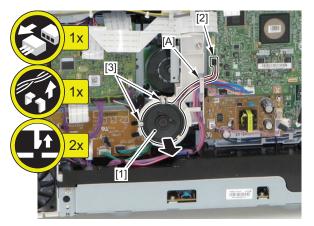
Preparation

- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Controller Cover. (Refer to "Removing the Controller Cover" on page 147)

Procedure

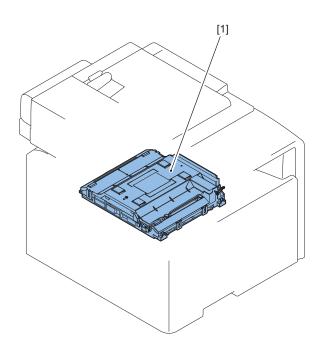
1. Remove the Speaker [1].

- 1 Connector [2]
- Guide [A]
- 2 Claws [3]



Laser Exposure System

Location



No.	Parts Name	Main Unit	Remarks	Reference	Adjustment during parts replacement
[1]	Laser Scanner Unit	Product Configuration			"After Replacing the Laser Scanner Unit" on page 176

Laser Exposure System Disassembly/ Assembly Procedure

Removing the Laser Scanner Unit

Preparation

- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)
- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)
- 4. Remove the ADF Unit/ Copyboard + Reader Unit. (Refer to "Removing the ADF Unit/Copyboard + Reader Unit" on page 121)
- 5. Remove the Upper Cover. (Refer to "Removing the Upper Cover" on page 117)

Procedure

CAUTION:

When replacing the Laser Scanner Unit, be sure to perform the following procedure.

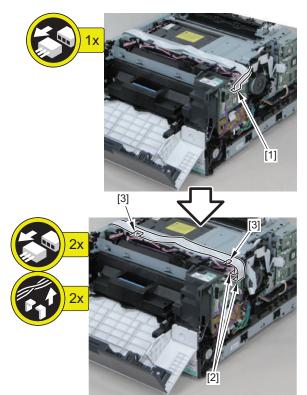
• After Replacing the Laser Scanner Unit. (Refer to "After Replacing the Laser Scanner Unit" on page 176)

CAUTION:

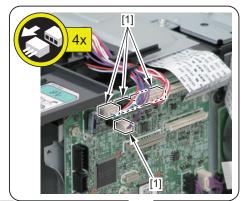
- The ITB Unit is under the Laser Scanner Unit. Ensure to close a Cartridge Tray when performing this procedure, because there is a possibility that the ITB Unit might be damaged when the Laser Scanner Unit is mistakenly dropped during installation/ removal.
- Be sure not to disassemble the Laser Scanner Unit because it requires adjustment.
- 1. Disconnect the Flat Cable [1].

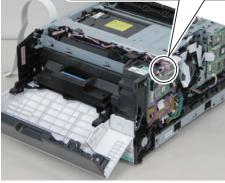
2. Disconnect the 2 Flat Cables [2].

2 Guides [3]



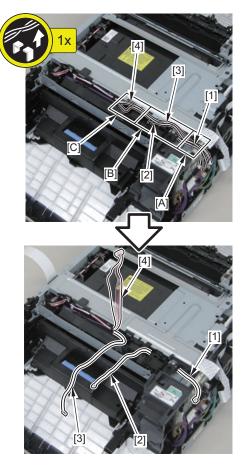
3. Disconnect the 4 connectors [1].



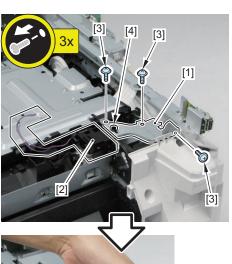


- 4. Free the harness [1] from the guide [A].
- 5. Free the harness [2] from the guide [A] and [B].

6. Free the harness [3] and [4] from the guide [A], [B], and [C].



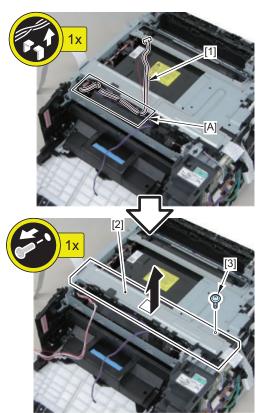
- 7. While lifting the Connecting Plate [1], remove the Flag Unit [2].
 - 3 Screws [2]
 - 1 Boss [3]



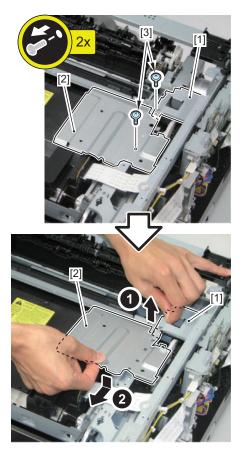


8. Free the harness [1] from the guide [A].

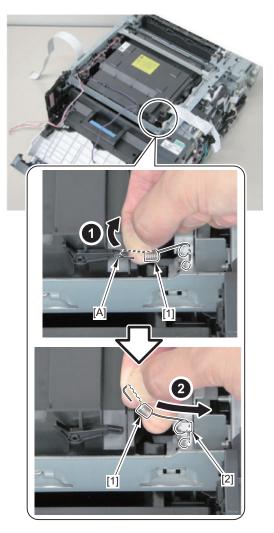
- 9. Remove the Harness Support Plate [2].
 - 1 Screw [3]



- 10. While lifting the Connecting Plate [1], remove the Sub Drive Unit Cover [2].
 - 2 Screws [3]

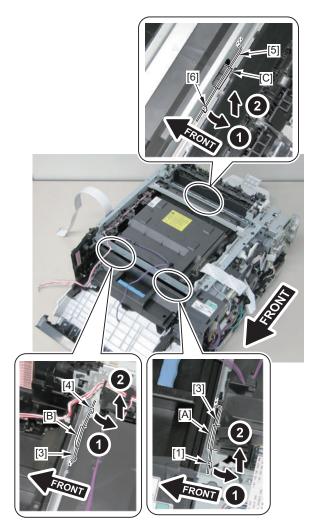


- 11. Remove the spring [1].
 - 1 Hole [A] of the Sensor Arm
 - 1 Hook [2]



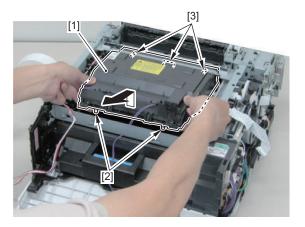
- 12. Remove the Scanner Fixation Spring [1] on the right side.
 - 1 Hook [2]
 - 1 Groove [A]
- 13. Remove the Scanner Fixation Spring [3] on the left side.
 - 1 Hook [4]
 - 1 Groove [B]

- 14. Remove the Scanner Fixation Spring [5] on the rear side.
 - 1 Hook [6]
 - 1 Groove [C]



15. Remove the Laser Scanner Unit [1].

- 2 Bosses [2]
- 3 Protrusions [3]



After Replacing the Laser Scanner Unit

- 1. Register values indicated on the label packaged with the Laser Scanner Unit in the following service mode items.
 - COPIER > ADJUST > SCNR > SUB-S-Y0 (Laser output correction value, vertical scanning irradiation position0 Y)
 - COPIER > ADJUST > SCNR > SUB-S-M0 (Laser output correction value, vertical scanning irradiation position0 M)
 - COPIER > ADJUST > SCNR > SUB-S-C0 (Laser output correction value, vertical scanning irradiation position0 C)
 - COPIER > ADJUST > SCNR > SUB-S-K0 (Laser output correction value, vertical scanning irradiation position0 K)
 - COPIER > ADJUST > SCNR > SUB-S-Y1 (Laser output correction value, vertical scanning irradiation position1 Y)
 - COPIER > ADJUST > SCNR > SUB-S-M1 (Laser output correction value, vertical scanning irradiation position1 M)
 - COPIER > ADJUST > SCNR > SUB-S-C1 (Laser output correction value, vertical scanning irradiation position1 C)
 - COPIER > ADJUST > SCNR > SUB-S-K1 (Laser output correction value, vertical scanning irradiation position1 K)
 - COPIER > ADJUST > SCNR > SUB-S-Y2 (Laser output correction value, vertical scanning irradiation position2 Y)
 - COPIER > ADJUST > SCNR > SUB-S-M2 (Laser output correction value, vertical scanning irradiation position2 M)
 - COPIER > ADJUST > SCNR > SUB-S-C2 (Laser output correction value, vertical scanning irradiation position2 C)
 - COPIER > ADJUST > SCNR > SUB-S-K2 (Laser output correction value, vertical scanning irradiation position2 K)
 - COPIER > ADJUST > SCNR > MAI-S-Y0 (Laser output correction value, horizontal scanning irradiation position0 Y)
 - COPIER > ADJUST > SCNR > MAI-S-M0 (Laser output correction value, horizontal scanning irradiation position0 M)
 - COPIER > ADJUST > SCNR > MAI-S-C0 (Laser output correction value, horizontal scanning irradiation position0 C)
 - COPIER > ADJUST > SCNR > MAI-S-K0 (Laser output correction value, horizontal scanning irradiation position0 K)
 - COPIER > ADJUST > SCNR > MAI-S-Y1 (Laser output correction value, horizontal scanning irradiation position1 Y)
 - COPIER > ADJUST > SCNR > MAI-S-M1 (Laser output correction value, horizontal scanning irradiation position1 M)

- COPIER > ADJUST > SCNR > MAI-S-C1 (Laser output correction value, horizontal scanning irradiation position1 C)
- COPIER > ADJUST > SCNR > MAI-S-K1 (Laser output correction value, horizontal scanning irradiation position1 K)
- COPIER > ADJUST > SCNR > MAI-S-Y2 (Laser output correction value, horizontal scanning irradiation position2 Y)
- COPIER > ADJUST > SCNR > MAI-S-M2 (Laser output correction value, horizontal scanning irradiation position2 M)
- COPIER > ADJUST > SCNR > MAI-S-C2 (Laser output correction value, horizontal scanning irradiation position2 C)
- COPIER > ADJUST > SCNR > MAI-S-K2 (Laser output correction value, horizontal scanning irradiation position2 K)
- 2. After values are registered, affix the label [1] packaged with the unit on the inside [2] of the right cover.

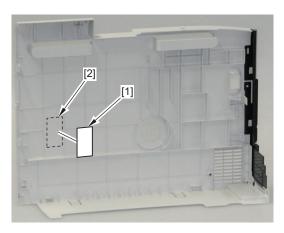
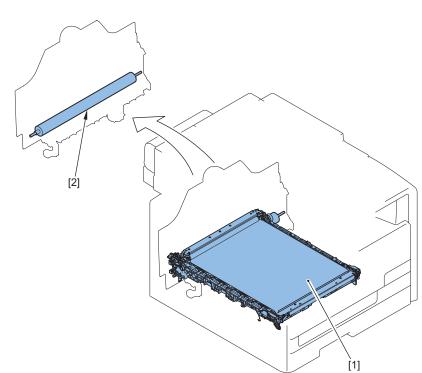


Image Formation System





Ν	lo.	Parts Name	Main Unit	Remarks	Reference	Adjustment during parts replacement
[[1]	ITB Unit	Product Configuration	-	"Removing the ITB Unit" on page 179	-
[Secondary Transfer Outer Roller	Product Configuration		"Removing the Secondary Trans- fer Outer Roller" on page 183	_

Image Formation System Disassembly/ Assembly Procedure

Removing the ITB Unit

Preparation

- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)
- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)

Procedure

CAUTION:

Do not touch the ITB.

CAUTION:

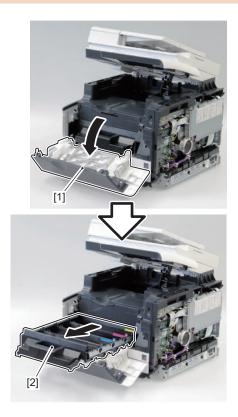
While removing the cartridges, be sure not to scratch the drum surface, and be sure to cover the drum surface.

1. Open the Front Cover [1].

2. Pull out the Cartridge Tray [1].

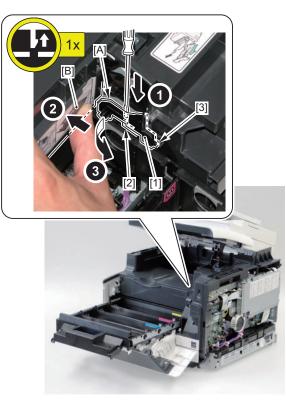
CAUTION:

Since the Cartridge Tray interferes with the stopper when removing the stopper, do not pull out the Cartridge Tray until it hits the end.



- 3. Remove the cartridges
- 4. Insert a flat-blade screwdriver into the clearance [A] between the Right Stopper [1] and rail.

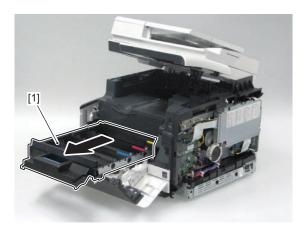
- 5. Remove the Right Stopper [1] while pushing the [B] part.
 - 2 Claws [2]
 - 1 Protrusion [3]



- 6. Insert a flat-blade screwdriver into the clearance [A] between the Left Stopper [1] and rail.
- 7. Remove the Left Stopper [1] while pushing the [B] part.
 - 2 Claws [2]
 - 1 Protrusion [3]

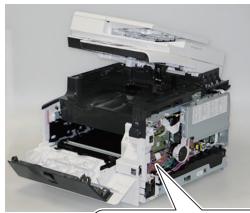


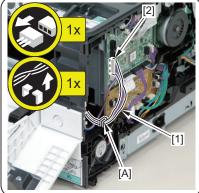
8. Remove the Cartridge Tray [1].



9. Free the harness [1].

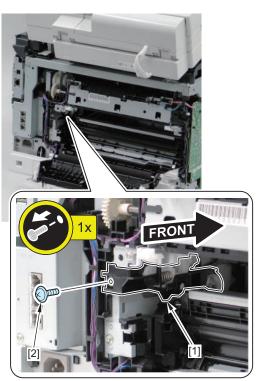
- 1 Connector [2]
- 1 Harness Guide [A]





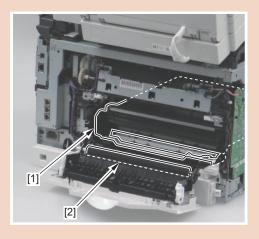
10. Remove the ITB Fixing Holder [1].

• 1 screw [2]



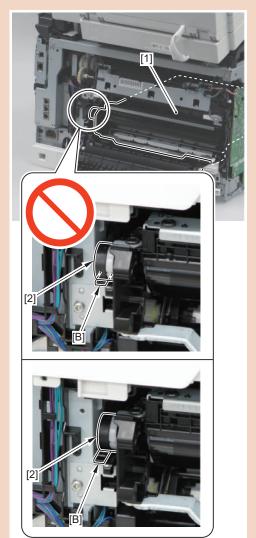
CAUTION:

When removing the ITB Unit [1], do not touch the Secondary Transfer Outer Roller [2].

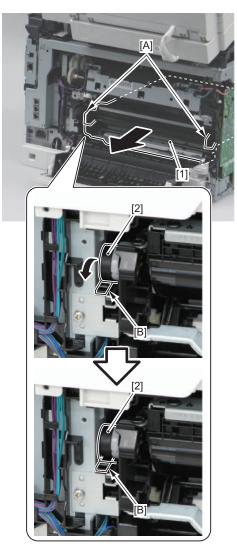


CAUTION:

Do not place the Drive Link [2] of the ITB Unit on the edge of the rail [B]; otherwise, the ITB Unit [1] falls.



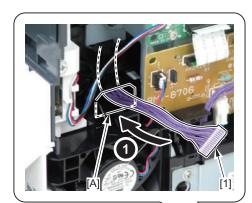
11. Hold the 2 parts [A] of the ITB Unit to pull out the ITB Unit [1]. Then, place the ITB Drive Link [2] at the center of the rail [B].

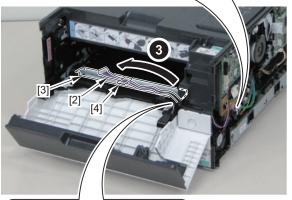


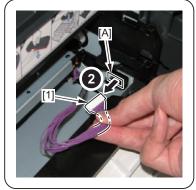
12. Put the connector [1] through the hole [A] of the guide, and secure the harness [2] to the plate [3] of the ITB Unit using tapes [4].

CAUTION:

When installing/removing the ITB Unit, be sure to secure the harness [2] using tapes to prevent it from being caught inside the host machine.

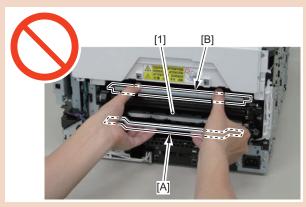




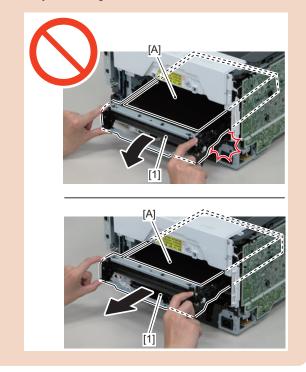


CAUTION:

• When holding the ITB Unit [1], be sure not to hold the plate [A] and [B]; otherwise, the plate [A] may be deformed.

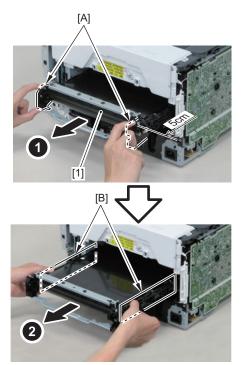


• When installing/removing the ITB Unit [1], be sure not to tilt it; otherwise, the surface [A] of the ITB may be damaged.



13. Hold the 2 parts [A] of the ITB Unit and pull out the ITB Unit [1] horizontally by approx. 5 cm.

14. Hold the 2 guides [B] at the both ends of the ITB Unit, and remove the ITB Unit [1].



Removing the Secondary Transfer Outer Roller

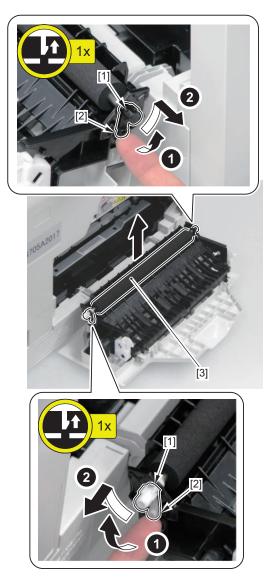
Procedure

1. Open the Rear Cover [1].



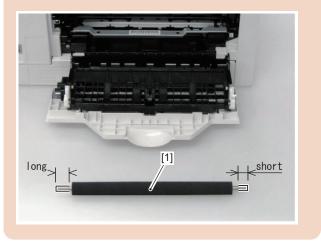
2. Remove the 2 stoppers [1].• 2 claws [2]

3. Remove the Secondary Transfer Outer Roller [3].



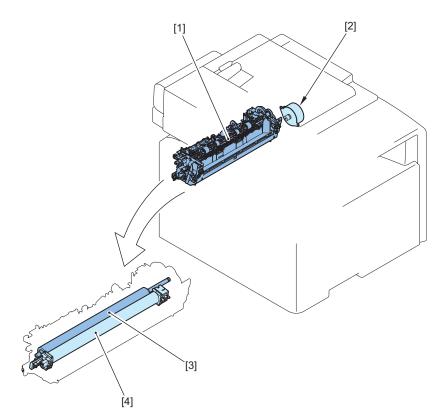
CAUTION:

When installing the Secondary Transfer External Roller, take note of the direction of the Secondary Transfer Roller [1].



Fixing System

Location



No.	Parts Name	Main Unit	Re- marks	Reference	Adjustment during parts replacement
[1]	Fixing Assembly	Product Configura- tion	-	"Removing the Fixing Assembly" on page 186	-
[2]	Fixing Motor	Product Configura- tion	M703	"Removing the Fixing Motor" on page 191	-
[3]	Fixing Pressure Roller	Fixing Assembly	-	"Removing the Fixing Pressure Roller" on page 190	-
[4]	Fixing Film Unit	Fixing Assembly	-	"Replacing the Fixing Film Unit" on page 187	-

Fixing System Disassembly/ Assembly Procedure

Removing the Fixing Assembly

Preparation

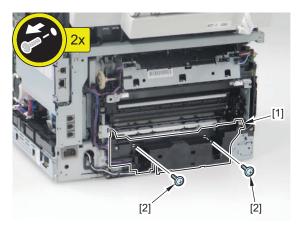
- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)
- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)
- 4. Remove the Rear Lower Cover. (Refer to "Removing the Rear Lower Cover" on page 116)

Procedure

CAUTION:

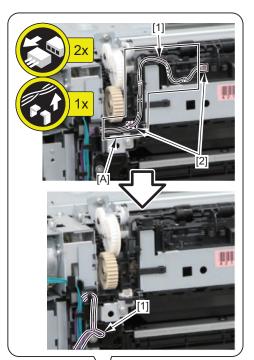
Take some time until the fixing assembly gets cooler and then remove it because the fixing assembly right after the power supply is turned off is at high heat.

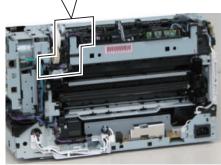
- 1. Remove the Fixing Power Supply Cover [1].
 - 2 screws [2]



2. Free the 1 harness [1].

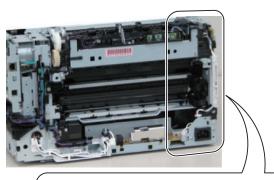
- 2 connectors [2]
- Harness guide [A]

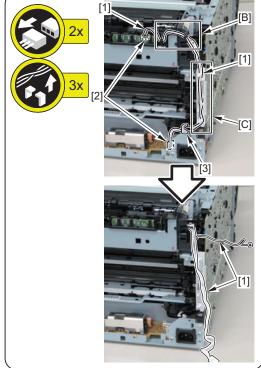




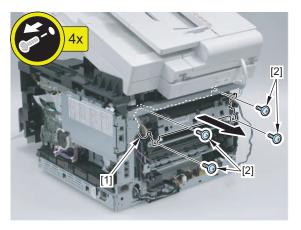
3. Free the 2 harnesses [1].

- 2 connectors [2]
- Guide [B]
- Guide [C]
- 1 Wire Saddle [3]





- 4. Remove the Fixing Assembly [1].
 - 4 screws [2]



Replacing the Fixing Film Unit

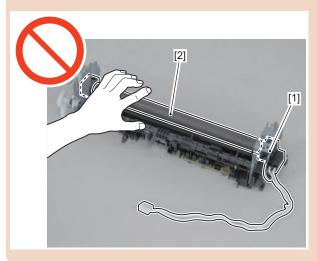
Preparation

- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)
- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)
- 4. Remove the Rear Lower Cover. (Refer to "Removing the Rear Lower Cover" on page 116)
- 5. Remove the Fixing Assembly. (Refer to "Removing the Fixing Assembly" on page 186)

Procedure

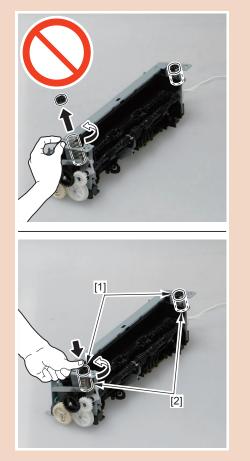
CAUTION:

When installing/removing the Fixing Film Unit [1], be sure not to touch the Fixing Film [2].



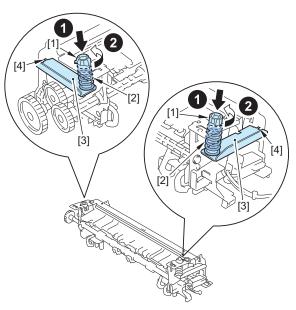
CAUTION:

When removing the Spring Retainer Holders [1] and the springs [2], be sure to hold them to prevent them from coming off because pressure is applied to them.



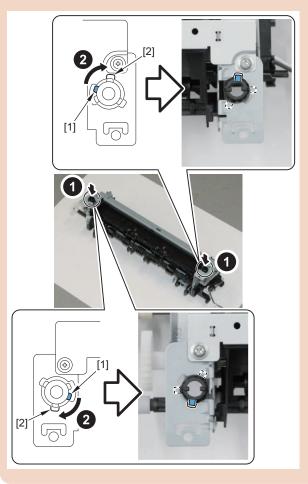
1. Remove the 2 Spring Retainer Holders [1] (right and left) and the 2 springs [2].

- 2. Remove the 2 Pressure Plates [3] (right and left).
 - 2 Protrusions [4]



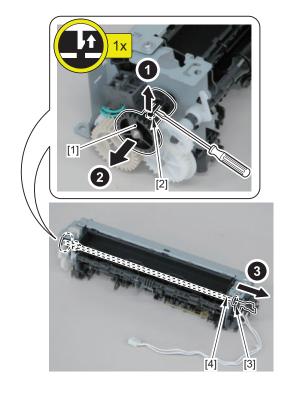
CAUTION:

At installation, be sure to match the protrusion [1] of the Spring Retainer Holder with the cut-off parts [2] of the Fixing Frame.

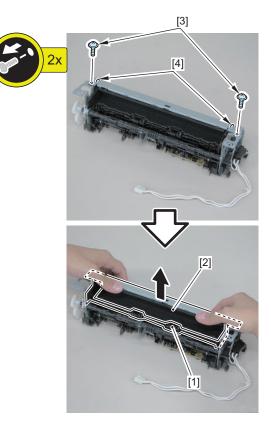


3. Remove the gear [1].• 1 Claw [2]

4. Remove the Shaft Unit [3] and the bushing [4].



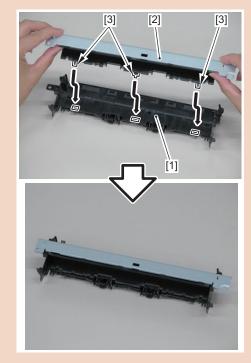
- 5. Remove the Guide Retainer Plate [1] and the Fixing Guide (Upper) [2].
 - 2 Screws [3]
 - 2 Protrusions [4]



CAUTION:

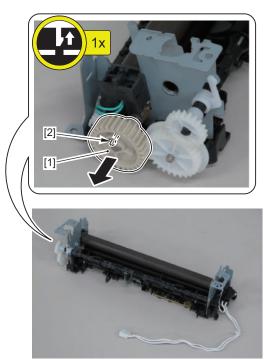
At installation, be sure to combine the Guide Retainer Plate [1] with the Fixing Guide (Upper) [2] before installing them to the Fixing Assembly.

3 Protrusions [3]

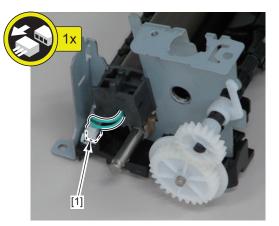


6. Remove the gear [1].

• 1 Claw [2]

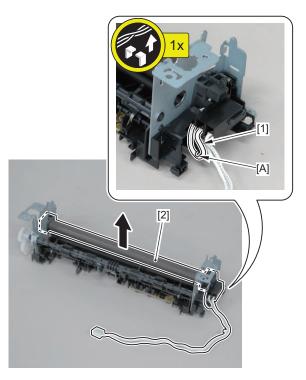


7. Disconnect the connector [1].



8. Free the harness [1] from the guide [A].

9. Remove the Fixing Film Unit [2].



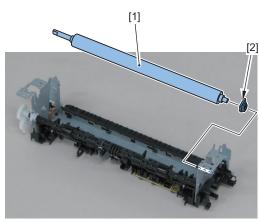
Removing the Fixing Pressure Roller

Preparation

- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)
- 3. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)
- 4. Remove the Rear Lower Cover. (Refer to "Removing the Rear Lower Cover" on page 116)
- 5. Remove the Fixing Assembly. (Refer to "Removing the Fixing Assembly" on page 186)
- 6. Remove the Fixing Film Unit. (Refer to "Replacing the Fixing Film Unit" on page 187)

Procedure

- 1. Remove the Fixing Pressure Roller [1].
 - 1 Bushing [2]



Removing the Fixing Motor

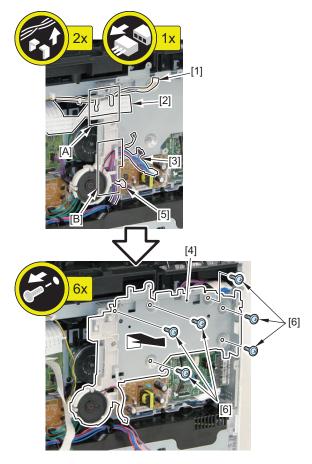
Preparation

- 1. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 2. Remove the Controller Cover. (Refer to "Removing the Controller Cover" on page 147)
- 3. Remove the Wireless LAN PCB. (MF628Cw/ 624Cw only) (Refer to "Removing the Wireless LAN PCB (MF628Cw/624Cw)" on page 147)
- 4. Remove the Main Controller PCB. (Refer to "Removing the Main Controller PCB" on page 147)

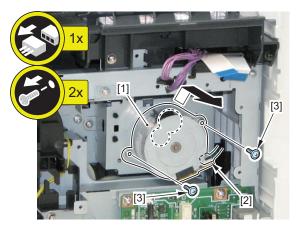
Procedure

- 1. Free the harness [1] and Flat Cable [2].
 - Guide [A]

- 2. Free the harness [3] and remove the Main Controller Support Plate [4].
 - 1 Connector [5] (Fax model only)
 - Guide [B]
 - 6 Screws [6]

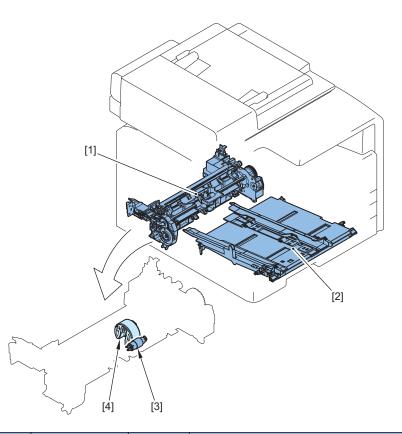


- 3. Slide the Fixing Motor [1] in the upper right direction to remove.
 - 1 connector [2]
 - 2 screws [3]



Pickup Feeder System

Location



No	Parts Name	Main Unit	Remarks	Reference	Adjustment dur- ing parts replace- ment
[1]	Pickup Unit	Product Configu- ration	-	"Removing the Pickup Unit" on page 199	-
[2]	Multi-purpose Tray Unit	Product Configu- ration	-	"Removing the Multi-purpose Tray Unit" on page 196	-
[3]	Cassette Separation Roller	Pickup Unit	-	"Removing the Cassette Separation Roller" on page 194	-
[4]	Cassette Pickup Roller	Pickup Unit	-	"Removing the Cassette Pickup Roller" on page 193	-

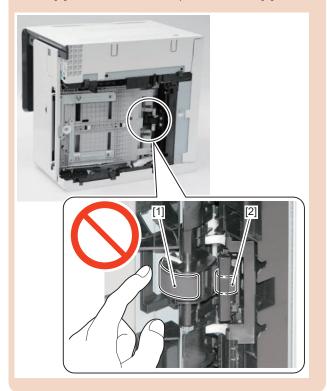
Pickup Feeder System Disassembly/ Assembly Procedure

Removing the Cassette Pickup Roller

Procedure

CAUTION:

Be sure not to touch the surface of the Cassette Pickup Roller [1] and the Cassette Separation Roller [2].



- 1. Turn ON the power switch.
- 2. Execute the following items in Service mode. COPIER > FUNCTION > VIFFNC > FD-R-CHG
- 3. The Pickup Roller rotates and stops at the replacement position.
- 4. Turn OFF the power.

CAUTION:

Before tilting a host machine, remove toner cartridges (Y, M, C, Bk).

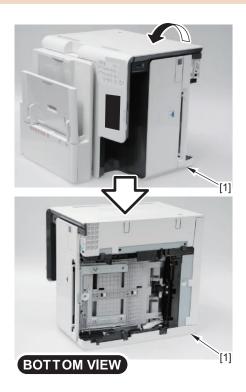
5. Remove the cassette [1].



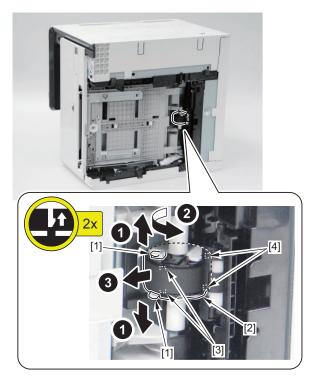
6. Place a host machine [1] as the Left Cover faces to the bottom.

CAUTION:

When laying down the main body, be sure to secure the ADF Unit with tape to prevent from opening. In case that the ADF Unit is not secured with tape, when returning the main body to its original position, the ADF Unit is closed swiftly, so this might cause damage on the main body or injuries by catching the fingers.



- 7. Open 2 projections [1] of the holder in the arrow direction, and remove the cassette Pickup Roller [2].
 - 2 Claws [3]
 - 2 Hooks [4]

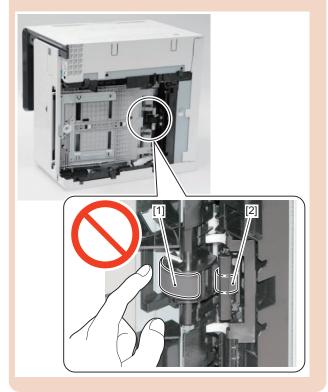


Removing the Cassette Separation Roller

Procedure

CAUTION:

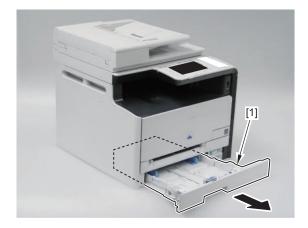
Be sure not to touch the surface of the Cassette Pickup Roller [1] and the Cassette Separation Roller [2].



CAUTION:

Before tilting a host machine, remove toner cartridges (Y, M, C, Bk).

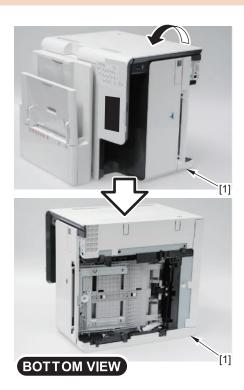
1. Remove the cassette [1].



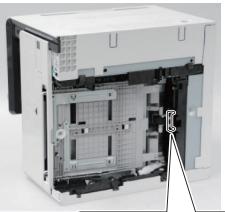
2. Make the Left Cover face down and place the host machine [1].

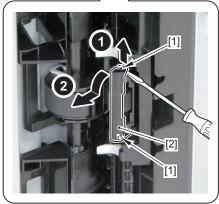
CAUTION:

When laying down the main body, be sure to secure the ADF Unit with tape to prevent from opening. In case that the ADF Unit is not secured with tape, when returning the main body to its original position, the ADF Unit is closed swiftly, so this might cause damage on the main body or injuries by catching the fingers.

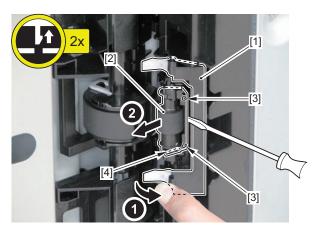


3. Remove the 2 projections [1] to remove the Cover [2].





- 4. While opening the holder [1], remove the Cassette Separation Roller [2].
 - 2 Claws [3]
 - 1 Protrusion [4]



CAUTION:

At installation, be sure to align the protrusion [A] of the Cassette Separation Roller [2] with the groove [B] of the holder while opening the holder [1].



Removing the Multi-purpose Tray Unit

Preparation

1. Remove the Toner Cartridges (Bk, C, M and Y).

CAUTION:

When installing/removing the Toner Cartridge, be careful not to damage the Photosensitive Drum because it is exposed. Also, be sure to block light.

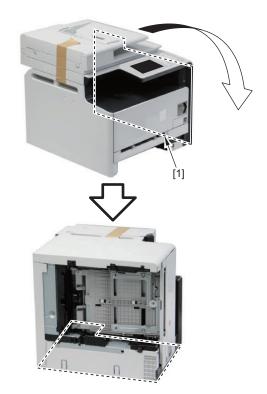
2. Remove the cassette.

Procedure

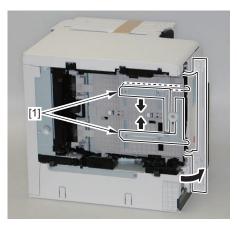
1. Place the host machine with the Left Cover [1] down.

CAUTION:

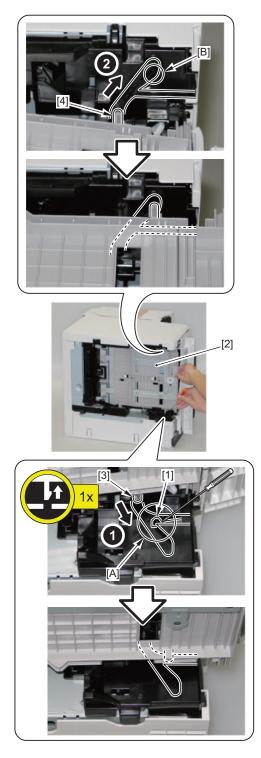
When laying down the main body, be sure to secure the ADF Unit with tape to prevent from opening. In case that the ADF Unit is not secured with tape, when returning the main body to its original position, the ADF Unit is closed swiftly, so this might cause damage on the main body or injuries by catching the fingers.



- 2. Open the Multi-purpose Tray Pickup Cover.
- 3. Move the 2 Multi-purpose Tray Paper Width Guide Plates [1] to the center as shown in the figure below.

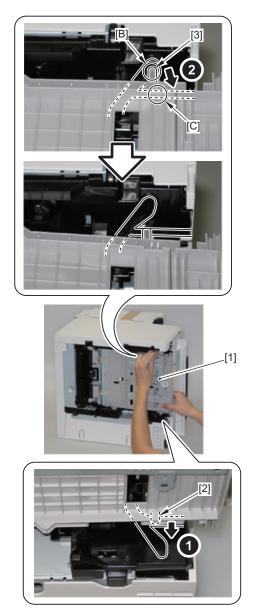


4. Lower the claw [1], move the shaft [3] at the lower side of the Multi-purpose Tray Unit [2] to the leading edge [A] of the claw [1], and then push the shaft [4] at the upper side of the Multi-purpose Tray Unit all the way to the groove [B].

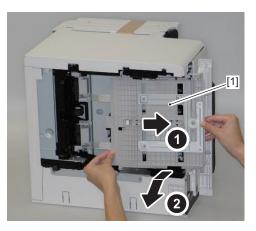


5. While pushing the shaft [2] at the lower side of the Multi-purpose Tray Unit [1] down, remove the shaft

[3] at the upper side of the Multi-purpose Tray Unit from the groove [B], and insert it into [C] part.

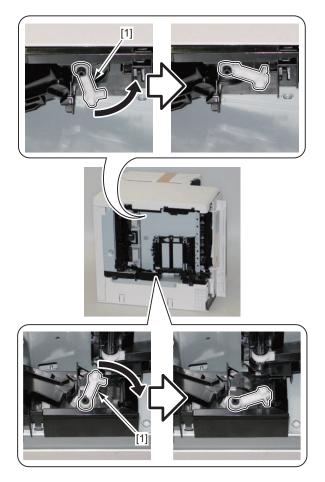


6. Remove the Multi-purpose Tray Unit [1].

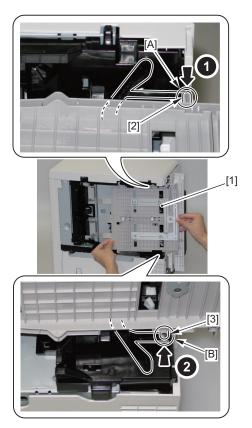


Installation Method

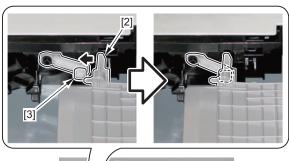
1. Set the 2 links [1] of the Multi-purpose Tray Unit as shown in the figure below.

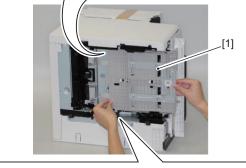


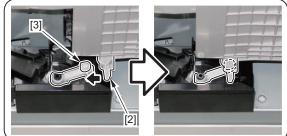
2. Insert the shaft [2] at the upper side of the Multipurpose Tray Unit [1] into the groove [A], and the shaft [3] at the lower side of the Multi-purpose Tray Unit into the groove [B].



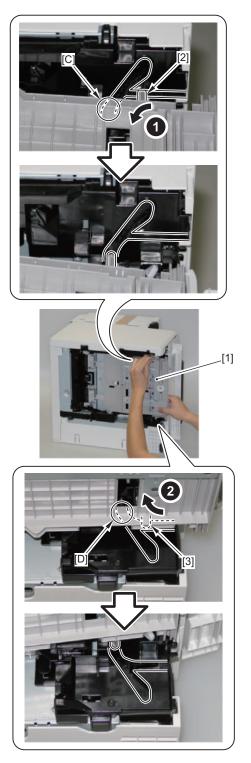
3. Fit the 2 grooves [2] of the Multi-purpose Tray Unit [1] to the 2 protrusions [3] of the links of the Multipurpose Tray Unit.







 Move the shaft [2] at the upper side of the Multipurpose Tray Unit [1] to the groove [C], and the shaft [3] at the lower side of the Multi-purpose Tray Unit to the groove [D].



5. Perform the step 3 and earlier steps of the Removing Procedure in reverse order.

Removing the Pickup Unit

Preparation

1. Remove the Toner Cartridges (Bk, C, M and Y).

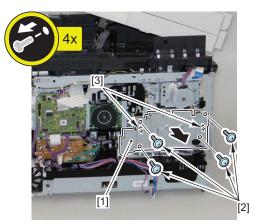
CAUTION:

When installing/removing the Toner Cartridge, be careful not to damage the Photosensitive Drum because it is exposed. Also, be sure to block light.

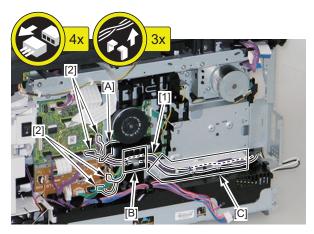
- 2. Remove the cassette.
- 3. Remove the Right Cover. (Refer to "Removing the Right Cover" on page 111)
- 4. Remove the Left Cover. (Refer to "Removing the Left Cover" on page 109)
- 5. Remove the Rear Upper Cover. (Refer to "Removing the Rear Upper Cover" on page 116)
- 6. Remove the Rear Lower Cover. (Refer to "Removing the Rear Lower Cover" on page 116)
- 7. Remove the ITB Unit. (Refer to "Removing the ITB Unit" on page 179)
- 8. Remove the Fixing Power Supply Unit. (Refer to "Removing the Fixing Power Supply Unit" on page 159)
- 9. Remove the Controller Cover. (Refer to "Removing the Controller Cover" on page 147)
- 10. Remove the Wireless LAN PCB. (MF628Cw/ 624Cw only) (Refer to "Removing the Wireless LAN PCB (MF628Cw/624Cw)" on page 147)
- 11. Remove the Main Controller PCB. (Refer to "Removing the Main Controller PCB" on page 147)
- 12. Remove the Off Hook PCB. (Fax model only) Refer to "Removing the Off Hook PCB (MF628Cw/ 626Cn)" on page 162)
- 13. Remove the Fax PCB. (Fax model only) (Refer to "Removing the FAX PCB (MF628Cw/ 626Cn)" on page 161)
- 14. Remove the Main Controller Support Plate. (Refer to "Removing the Main Controller Support Plate" on page 151)

Procedure

- 1. Remove the Fax PCB Mounting Plate [1].
 - 4 Screws [2]
 - 2 Hooks [3]



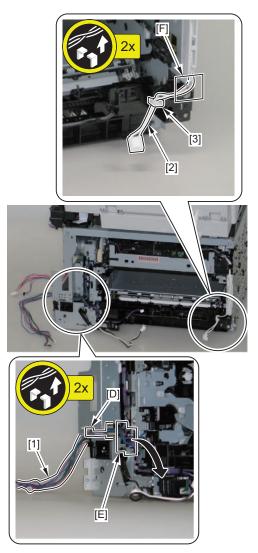
- 2. Free the harness [1] from the guides [A], [B], and [C].
 - 4 Connectors [2]



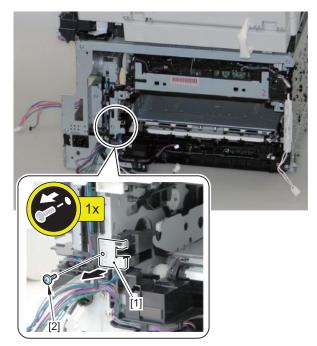
3. Free the harness [1] from the guide [E] by putting it through the hole [D] of the plate.

4. Free the harness [2] from the guide [F].

• 1 Wire Saddle [3]

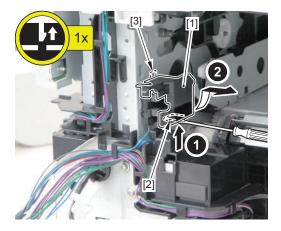


- 5. Remove the Sensor Cover Plate [1].
 - 1 Screw [2]

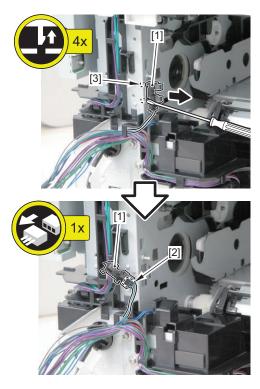


6. Remove the Sensor Cover [1].

- 1 Claw [2]
- 1 Hook [3]



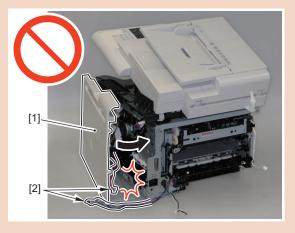
- 7. Disconnect the connector [2] of the sensor [1].
 - 4 Claws [3]

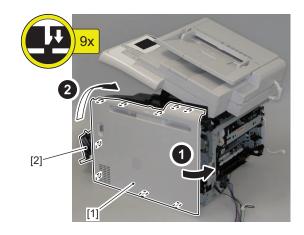


- 8. Install the Right Cover [1], and close the Front Cover [2].
 - 9 Claws

CAUTION:

When installing the Right Cover [1], be careful not to trap the harness [2].

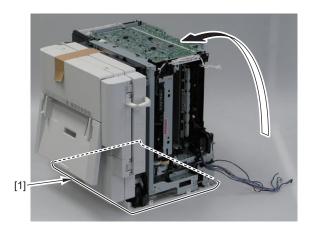




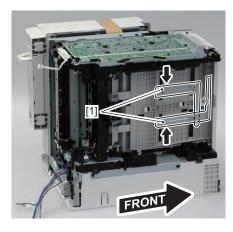
9. Place the host machine with the Right Cover [1] down.

CAUTION:

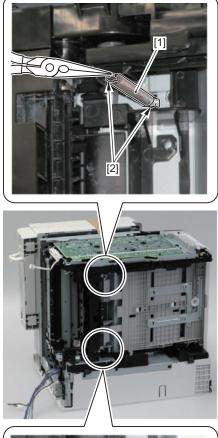
When laying down the main body, be sure to secure the ADF Unit with tape to prevent from opening. In case that the ADF Unit is not secured with tape, when returning the main body to its original position, the ADF Unit is closed swiftly, so this might cause damage on the main body or injuries by catching the fingers.

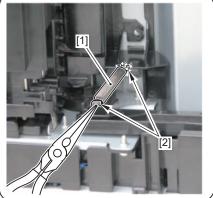


10. Move the 2 Multi-purpose Tray Paper Width Guide Plates [1] to the inside as shown in the figure below.



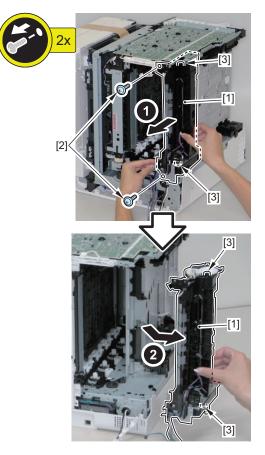
- 11. Remove the 2 springs [1] using a pair of needlenose pliers.
 - 4 Hooks [2]





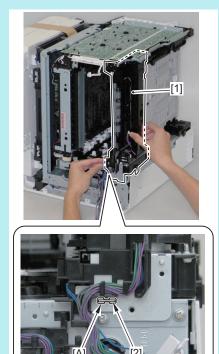
12. Remove the Pickup Unit [1].

- 2 Screws [2]
- 2 Bosses [3]



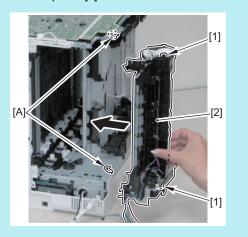
NOTE:

When assembling, push the lower side of the Pickup Unit [1], and fit the protrusion [2] of the host machine into the hole [A] of the plate.



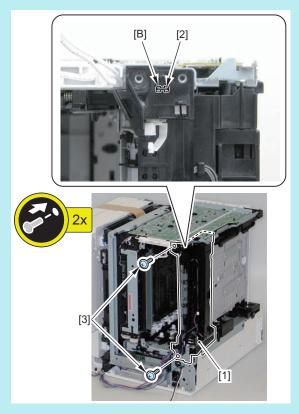
NOTE:

When assembling, align the 2 bosses [1] of the Pickup Unit with the 2 edges [A] of the cut-off of the host machine, and place the Pickup Unit [2] on the host machine.



NOTE:

When assembling, push the upper side of the Pickup Unit [1] to fit the protrusion [2] of the host machine into the hole [B] of the plate, and secure with the 2 screws [3] removed previously.





Adjustment

Overview	206
Adjustment at Parts Replacement	207

Overview

Adjustment required in the field service works when following parts are replaced. The parts are classified by 3 function blocks.

Category	Parts	Reference	
Document Exposure /	ADF Units	"After Replacing the ADF Units" on page 207	
Feed System	Reader Units	"After Replacing the Reader Unit" on page 208	
	Scoopup Sheet Holder	"After Replacing the Scoopup Sheet Holder" on page 214	
	Reader Upper Cover Unit	"After Replacing the Reader Upper Cover Unit" on page 211	
	CIS Units	"After replacing CIS units" on page 213	
Controller System	Main Controller PCB	"Main Controller PCBs" on page 215	
	DC Controller PCB	"DC Controller PCB" on page 219	
Laser Exposure Sys- tem	Laser Scanner Unit	"After Replacing the Laser Scanner Unit" on page 220	

Adjustment at Parts Replacement

Document Exposure / Feed System

After Replacing the ADF Units

- 1. Adjust the white level in the following service mode, and write the final setting values on the service label.
 - 1. Enter the values in the following service mode items respectively.
 - In COPIER > ADJUST > CCD > DFTAR-R, set "299".
 - In COPIER > ADJUST > CCD > DFTAR-G, set "309".
 - In COPIER > ADJUST > CCD > DFTAR-B, set "307".
 - In COPIER > ADJUST > CCD > DFTAR-BW, set "315".
 - Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader, and execute
 COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode (color))
 - 3. Place the same blank paper on the ADF, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode (color))
 - 4. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W))
 - 5. Place the same blank paper on the ADF again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W))
 - 6. If the operation was successful, write the setting value on the service label.
 - Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation is successful or not.
 - COPIER > ADJUST > CCD > DFTAR-R (Adjustment of shading target value (R) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-G (Adjustment of shading target value (G) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-B (Adjustment of shading target value (B) at ADF reading)
 - Check the foregoing values, and if all the values remain the same with those you entered, the operation result is judged to be "failed".
 - 8. If the operation result is "failed", turn OFF and then ON the power, execute
 - COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode: color)
 - and then execute
 - COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode: color)

again.

- 9. Checking the value of DFTAR-BW
 - Check the value of
 - COPIER > ADJUST > CCD > DFTAR-BW (Adjustment of shading target value (B&W) at ADF reading)
 - If the value remains the same as the value you entered, the operation result is judged to be "failed".
- 10. If the operation result is "failed", turn OFF and then ON the power, execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W))
 - and then execute

 COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W)) again.

2. ADF 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.

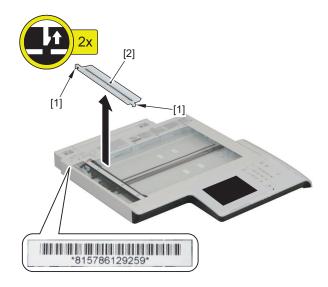
In the case of E353MGMH, perform 2-sided original reading from the ADF.

If adjustment is needed, enter necessary adjustment values in the following service mode:

- COPIER > ADJUST > ADJ-XY > ADJ-Y-DF (Adj img pstn in ADF mode:horz scan)
- FEEDER > ADJUST > DOCST (Fine adjustment of VSYNC timing at ADF reading [front side])
- FEEDER > ADJUST > LA-SPD (Fine adjustment of magnification ratio in vertical scanning direction at ADF stream reading [front side])
- 2. If you enter adjustment values, write the final values on the service label.

After Replacing the Reader Unit

1. Release the 2 claws [1], remove the Scoop-up Sheet Holder [2], and check the setting values of the Standard White Plate indicated under the barcode that was hidden beneath the Scoop-up Sheet Holder.



- 2. Enter the X, Y, and Z values indicated under the barcode on the Copyboard Glass in
 - COPIER > ADJUST > CCD > W-PLT-X (White level data (X) entry of white plate),
 - COPIER > ADJUST > CCD > W-PLT-Y (White level data (Y) entry of white plate), and
 - COPIER > ADJUST > CCD > W-PLT-Z (White level data (Z) entry of white plate),

and then write the entered values (the the X, Y, and Z values shown under the barcode on the Copyboard Glass) on the service label.

NOTE:

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

3. Return the Scoop-up Sheet to its original position.

4. AGC adjustment

- 1. Entering a provisional value
 - Change the foregoing values to "1,000".
 - COPIER > ADJUST > CCD > LED-BW-R (Adjustment of LED light-up time (R) at B&W reading)
 - COPIER > ADJUST > CCD > LED-BW-G (Adjustment of LED light-up time (G) at B&W reading)
 - COPIER > ADJUST > CCD > LED-BW-B (Adjustment of LED light-up time (B) at B&W reading) Change the foregoing values to "1,200"
 - COPIER > ADJUST > CCD > LED-CL-R (Adjustment of LED light-up time (R) at color reading)
 - COPIER > ADJUST > CCD > LED-CL-G (Adjustment of LED light-up time (G) at color reading)
 - COPIER > ADJUST > CCD > LED-CL-B (Adjustment of LED light-up time (B) at color reading)
- 2. Adjust the white level in the following service mode.
 - COPIER > FUNCTION > CCD > BW-AGC (CIS intensity adjustment in ADF (B&W))
 - COPIER > FUNCTION > CCD > CL-AGC (CIS intensity adjustment in ADF (color))
- 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 > LED-BW-R (Adjustment of LED light-up time (R) at B&W reading)
- COPIER > ADJUST > CCD > LED-BW-G (Adjustment of LED light-up time (G) at B&W reading)
- COPIER > ADJUST > CCD > LED-BW-B (Adjustment of LED light-up time (B) at B&W reading)

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

- COPIER > ADJUST > CCD > LED-CL-R (Adjustment of LED light-up time (R) at color reading)
- COPIER > ADJUST > CCD > LED-CL-G (Adjustment of LED light-up time (G) at color reading)
- COPIER > ADJUST > CCD > LED-CL-B (Adjustment of LED light-up time (B) at color reading)

Check the foregoing values. If all of them remain "1,200", the operation result is judged to be "failed".

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

5. Automatic adjustment of the stream reading position

1. Entering a provisional value

Set the value of

 COPIER > ADJUST > ADJ-XY > STRD-POS (Adjustment of reading position at ADF stream reading) to "-20".

2. Automatic adjustment of the stream reading position

Execute

COPIER > FUNCTION > INSTALL > STRD-POS (Scan position auto adj in ADF mode)

If the operation was successful, write the value of STRD-POS on the service label.

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

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

Check the value of

• COPIER > ADJUST > ADJ-XY > STRD-POS (Adjustment of reading position at ADF stream reading) If it remains "-20", the operation is judged to be "failed".

If the operation is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > INSTALL > STRD-POS again.

6. Adjust the white level in the following service mode, and write the final setting values on the service label.

- 1. Enter the values in the following service mode items respectively.
 - In COPIER > ADJUST > CCD > DFTAR-R, set "299".
 - In COPIER > ADJUST > CCD > DFTAR-G, set "309".
 - In COPIER > ADJUST > CCD > DFTAR-B, set "307".
 - In COPIER > ADJUST > CCD > DFTAR-BW, set "315".
- Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader, and execute
 COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode (color))
- 3. Place the same blank paper on the ADF, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode (color))
- 4. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W))
- 5. Place the same blank paper on the ADF again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W))
- 6. If the operation was successful, write the setting value on the service label.
- Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation is successful or not.
 - COPIER > ADJUST > CCD > DFTAR-R (Adjustment of shading target value (R) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-G (Adjustment of shading target value (G) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-B (Adjustment of shading target value (B) at ADF reading)

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

8. If the operation result is "failed", turn OFF and then ON the power, execute

 COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode: color) and then execute

• COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode: color)

again.

- 9. Checking the value of DFTAR-BW
 - Check the value of

• COPIER > ADJUST > CCD > DFTAR-BW (Adjustment of shading target value (B&W) at ADF reading) If the value remains the same as the value you entered, the operation result is judged to be "failed".

10. If the operation result is "failed", turn OFF and then ON the power, execute

 COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W)) and then execute

```
    COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W))
again.
```

7. Copyboard color displacement offset adjustment

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

Enter the values of 50-RG, 50-GB, 100-RG, and 100-GB shown on the replacement label in the following service mode, and write the entered values on the service label.

- COPIER > ADJUST > CCD > 50-RG (Color displacement (R and G lines) correction value in the vertical scanning direction (50%))
- COPIER > ADJUST > CCD > 50-GB (Color displacement (G and B lines) correction value in the vertical scanning direction (50%))
- COPIER > ADJUST > CCD > 100-RG (Color displacement (R and G lines) correction value in the vertical scanning direction (100%))
- COPIER > ADJUST > CCD > 100-GB (Color displacement (G and B lines) correction value in the vertical scanning direction (100%))

8. 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 in the following service mode, and write the entered values on the service label.

- COPIER>ADJUST>PASCAL>OFST-P-Y (Y density adj at test print reading)
- COPIER>ADJUST>PASCAL>OFST-P-M (M density adj at test print reading)
- COPIER>ADJUST>PASCAL>OFST-P-C (C density adj at test print reading)
- COPIER>ADJUST>PASCAL>OFST-P-B (Bk density adj at test print reading)

9. Copyboard geometric adjustment

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

- COPIER > ADJUST > ADJ-XY > ADJ-X (Adj of img pstn in book mode: vert scan)
- COPIER > ADJUST > ADJ-XY > ADJ-Y (Adj of img pstn in book mode: (horizontal scanning direction)
- COPIER > ADJUST > ADJ-XY > ADJ-X-MG (Fine adj image ratio: vertical scanning)

Enter the values in the foregoing service mode.

10. ADF 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.

In the case of E353MGMH, perform 2-sided original reading from the ADF.

- If adjustment is needed, enter necessary adjustment values in the following service mode:
 - COPIER > ADJUST > ADJ-XY > ADJ-Y-DF (Adj img pstn in ADF mode:horz scan)
 - FEEDER > ADJUST > DOCST (Fine adjustment of VSYNC timing at ADF reading [front side])
 - FEEDER > ADJUST > LA-SPD (Fine adjustment of magnification ratio in vertical scanning direction at ADF stream reading [front side])
- 2. If you enter adjustment values, write the final values on the service label.

After Replacing the Reader Upper Cover Unit

1. Enter the X, Y, and Z values indicated under the barcode on the Copyboard Glass in



- COPIER > ADJUST > CCD > W-PLT-X (White level data (X) entry of white plate),
- COPIER > ADJUST > CCD > W-PLT-Y (White level data (Y) entry of white plate) , and
- COPIER > ADJUST > CCD > W-PLT-Z (White level data (Z) entry of white plate) ,

and then write the entered values (the the X, Y, and Z values shown under the barcode on the Copyboard Glass) on the service label.

NOTE:

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

2. AGC adjustment

1. Entering a provisional value

Change the foregoing values to "1,000".

- COPIER > ADJUST > CCD > LED-BW-R (Adjustment of LED light-up time (R) at B&W reading)
- COPIER > ADJUST > CCD > LED-BW-G (Adjustment of LED light-up time (G) at B&W reading)

• COPIER > ADJUST > CCD > LED-BW-B (Adjustment of LED light-up time (B) at B&W reading) Change the foregoing values to "1,200"

- COPIER > ADJUST > CCD > LED-CL-R (Adjustment of LED light-up time (R) at color reading)
- COPIER > ADJUST > CCD > LED-CL-G (Adjustment of LED light-up time (G) at color reading)
- COPIER > ADJUST > CCD > LED-CL-B (Adjustment of LED light-up time (B) at color reading)
- 2. Adjust the white level in the following service mode.
 - COPIER > FUNCTION > CCD > BW-AGC (CIS intensity adjustment in ADF (B&W))
 - COPIER > FUNCTION > CCD > CL-AGC (CIS intensity adjustment in ADF (color))

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 > LED-BW-R (Adjustment of LED light-up time (R) at B&W reading)

• COPIER > ADJUST > CCD > LED-BW-G (Adjustment of LED light-up time (G) at B&W reading)

• COPIER > ADJUST > CCD > LED-BW-B (Adjustment of LED light-up time (B) at B&W reading)

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

- COPIER > ADJUST > CCD > LED-CL-R (Adjustment of LED light-up time (R) at color reading)
- COPIER > ADJUST > CCD > LED-CL-G (Adjustment of LED light-up time (G) at color reading)

• COPIER > ADJUST > CCD > LED-CL-B (Adjustment of LED light-up time (B) at color reading) Check the foregoing values. If all of them remain "1,200", the operation result is judged to be "failed". 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. Automatic adjustment of the stream reading position

- 1. Entering a provisional value
 - Set the value of

```
• COPIER > ADJUST > ADJ-XY > STRD-POS (Adjustment of reading position at ADF stream reading) to "-20".
```

- 2. Automatic adjustment of the stream reading position
 - Execute

• COPIER > FUNCTION > INSTALL > STRD-POS (Scan position auto adj in ADF mode)

If the operation was successful, write the value of STRD-POS on the service label.

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

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

Check the value of

• COPIER > ADJUST > ADJ-XY > STRD-POS (Adjustment of reading position at ADF stream reading)

If it remains "-20", the operation is judged to be "failed".

If the operation is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > INSTALL > STRD-POS again.

4. Adjust the white level in the following service mode, and write the final setting values on the service label.

1. Enter the values in the following service mode items respectively.

- In COPIER > ADJUST > CCD > DFTAR-R, set "299".
- In COPIER > ADJUST > CCD > DFTAR-G, set "309".
- In COPIER > ADJUST > CCD > DFTAR-B, set "307" .
- In COPIER > ADJUST > CCD > DFTAR-BW, set "315".
- Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader, and execute
 COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode (color))
- 3. Place the same blank paper on the ADF, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode (color))
- 4. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W))
- 5. Place the same blank paper on the ADF again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W))
- 6. If the operation was successful, write the setting value on the service label.
- 7. Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation is successful or not.
 - COPIER > ADJUST > CCD > DFTAR-R (Adjustment of shading target value (R) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-G (Adjustment of shading target value (G) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-B (Adjustment of shading target value (B) at ADF reading)

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

8. If the operation result is "failed", turn OFF and then ON the power, execute

COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode: color)
ad then execute

and then execute

 COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode: color) again.

- 9. Checking the value of DFTAR-BW
 - Check the value of
 - COPIER > ADJUST > CCD > DFTAR-BW (Adjustment of shading target value (B&W) at ADF reading)

If the value remains the same as the value you entered, the operation result is judged to be "failed".

- 10. If the operation result is "failed", turn OFF and then ON the power, execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W)) and then execute

• COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W)) again.

5. Copyboard geometric adjustment

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

- COPIER > ADJUST > ADJ-XY > ADJ-X (Adj of img pstn in book mode: vert scan)
- COPIER > ADJUST > ADJ-XY > ADJ-Y (Adj of img pstn in book mode: (horizontal scanning direction)
- COPIER > ADJUST > ADJ-XY > ADJ-X-MG (Fine adj image ratio: vertical scanning)

Enter the values in the foregoing service mode.

After replacing CIS units

1. AGC adjustment

- 1. Entering a provisional value
 - Change the foregoing values to "1,000".
 - COPIER > ADJUST > CCD > LED-BW-R (Adjustment of LED light-up time (R) at B&W reading)
 - COPIER > ADJUST > CCD > LED-BW-G (Adjustment of LED light-up time (G) at B&W reading)
 - COPIER > ADJUST > CCD > LED-BW-B (Adjustment of LED light-up time (B) at B&W reading) Change the foregoing values to "1,200"
 - COPIER > ADJUST > CCD > LED-CL-R (Adjustment of LED light-up time (R) at color reading)
 - COPIER > ADJUST > CCD > LED-CL-G (Adjustment of LED light-up time (G) at color reading)
 - COPIER > ADJUST > CCD > LED-CL-B (Adjustment of LED light-up time (B) at color reading)
- 2. Adjust the white level in the following service mode.
 - COPIER > FUNCTION > CCD > BW-AGC (CIS intensity adjustment in ADF (B&W))
 - COPIER > FUNCTION > CCD > CL-AGC (CIS intensity adjustment in ADF (color))
- 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 > LED-BW-R (Adjustment of LED light-up time (R) at B&W reading)
- COPIER > ADJUST > CCD > LED-BW-G (Adjustment of LED light-up time (G) at B&W reading)
- COPIER > ADJUST > CCD > LED-BW-B (Adjustment of LED light-up time (B) at B&W reading)

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

COPIER > ADJUST > CCD > LED-CL-R (Adjustment of LED light-up time (R) at color reading)

- COPIER > ADJUST > CCD > LED-CL-G (Adjustment of LED light-up time (G) at color reading)
- COPIER > ADJUST > CCD > LED-CL-B (Adjustment of LED light-up time (B) at color reading)

Check the foregoing values. If all of them remain "1,200", the operation result is judged to be "failed". If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > CCD > CL-AGC again.

2. Automatic adjustment of the stream reading position

- 1. Entering a provisional value
- Set the value of

• COPIER > ADJUST > ADJ-XY > STRD-POS (Adjustment of reading position at ADF stream reading) to "-20".

2. Automatic adjustment of the stream reading position

Execute

• COPIER > FUNCTION > INSTALL > STRD-POS (Scan position auto adj in ADF mode)

If the operation was successful, write the value of STRD-POS on the service label.

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

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

Check the value of

• COPIER > ADJUST > ADJ-XY > STRD-POS (Adjustment of reading position at ADF stream reading)

If it remains "-20", the operation is judged to be "failed".

If the operation is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > INSTALL > STRD-POS again.

3. Adjust the white level in the following service mode, and write the final setting values on the service label.

- 1. Enter the values in the following service mode items respectively.
 - In COPIER > ADJUST > CCD > DFTAR-R, set "299".
 - In COPIER > ADJUST > CCD > DFTAR-G, set "309".
 - In COPIER > ADJUST > CCD > DFTAR-B, set "307" .
 - In COPIER > ADJUST > CCD > DFTAR-BW, set "315".
- Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader, and execute
 COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode (color))
- 3. Place the same blank paper on the ADF, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode (color))

- 4. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W))
- 5. Place the same blank paper on the ADF again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W))
- 6. If the operation was successful, write the setting value on the service label.
- 7. Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation is successful or not.
 - COPIER > ADJUST > CCD > DFTAR-R (Adjustment of shading target value (R) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-G (Adjustment of shading target value (G) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-B (Adjustment of shading target value (B) at ADF reading)

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

8. If the operation result is "failed", turn OFF and then ON the power, execute

 COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode: color) and then execute

• COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode: color)

again.

- 9. Checking the value of DFTAR-BW
 - Check the value of

• COPIER > ADJUST > CCD > DFTAR-BW (Adjustment of shading target value (B&W) at ADF reading)

If the value remains the same as the value you entered, the operation result is judged to be "failed".

- 10. If the operation result is "failed", turn OFF and then ON the power, execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W)) and then execute
 - COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W)) again.

4. Copyboard geometric adjustment

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

- COPIER > ADJUST > ADJ-XY > ADJ-X (Adj of img pstn in book mode: vert scan)
- COPIER > ADJUST > ADJ-XY > ADJ-Y (Adj of img pstn in book mode: (horizontal scanning direction)
- COPIER > ADJUST > ADJ-XY > ADJ-X-MG (Fine adj image ratio: vertical scanning)

Enter the values in the foregoing service mode.

5. ADF 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.

In the case of E353MGMH, perform 2-sided original reading from the ADF.

If adjustment is needed, enter necessary adjustment values in the following service mode:

- COPIER > ADJUST > ADJ-XY > ADJ-Y-DF (Adj img pstn in ADF mode:horz scan)
- FEEDER > ADJUST > DOCST (Fine adjustment of VSYNC timing at ADF reading [front side])
- FEEDER > ADJUST > LA-SPD (Fine adjustment of magnification ratio in vertical scanning direction at ADF stream reading [front side])
- 2. If you enter adjustment values, write the final values on the service label.

After Replacing the Scoopup Sheet Holder

1. Automatic adjustment of the stream reading position

- 1. Entering a provisional value
 - Set the value of

• COPIER > ADJUST > ADJ-XY > STRD-POS (Adjustment of reading position at ADF stream reading) to "-20".

2. Automatic adjustment of the stream reading position

Execute

• COPIER > FUNCTION > INSTALL > STRD-POS (Scan position auto adj in ADF mode) If the operation was successful, write the value of STRD-POS on the service label. 3. How to judge whether the operation was successful or failed

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

Check the value of

• COPIER > ADJUST > ADJ-XY > STRD-POS (Adjustment of reading position at ADF stream reading) If it remains "-20", the operation is judged to be "failed".

If the operation is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION > INSTALL > STRD-POS again.

2. Adjust the white level in the following service mode, and write the final setting values on the service label.

- 1. Enter the values in the following service mode items respectively.
 - In COPIER > ADJUST > CCD > DFTAR-R, set "299".
 - In COPIER > ADJUST > CCD > DFTAR-G, set "309".
 - In COPIER > ADJUST > CCD > DFTAR-B, set "307".
 - In COPIER > ADJUST > CCD > DFTAR-BW, set "315".
- Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader, and execute
 COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode (color))
- 3. Place the same blank paper on the ADF, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode (color))
- 4. Place a sheet of A4 or LTR blank paper (paper recommended by Canon) on the Platen Glass of the reader again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W))
- 5. Place the same blank paper on the ADF again, and execute
 - COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W))
- 6. If the operation was successful, write the setting value on the service label.
- Whether the operation was successful or failed is not shown on the UI, so perform the following procedure to judge if the operation is successful or not.
 - COPIER > ADJUST > CCD > DFTAR-R (Adjustment of shading target value (R) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-G (Adjustment of shading target value (G) at ADF reading)
 - COPIER > ADJUST > CCD > DFTAR-B (Adjustment of shading target value (B) at ADF reading)

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

- 8. If the operation result is "failed", turn OFF and then ON the power, execute
 - COPIER > FUNCTION > CCD > DF-WLVL1 (White level adj in book mode: color) and then execute
 - COPIER > FUNCTION > CCD > DF-WLVL2 (White level adj in ADF mode: color)

again.

- 9. Checking the value of DFTAR-BW
 - Check the value of
 - COPIER > ADJUST > CCD > DFTAR-BW (Adjustment of shading target value (B&W) at ADF reading)

If the value remains the same as the value you entered, the operation result is judged to be "failed".

- 10. If the operation result is "failed", turn OFF and then ON the power, execute
 - COPIER > FUNCTION > CCD > DF-WLVL3 (White level adj in book mode (B&W))

```
and then execute
```

```
    COPIER > FUNCTION > CCD > DF-WLVL4 (White level adj in ADF mode (B&W))
again.
```

Controller System

Main Controller PCBs

Before Replacing the Main Controller PCB

Back up user data (settings, registered data, etc.) and service mode data for setting and registration after PCB replacement. Take notes if data is unable to back up.

5. Adjustment

1. Enter service mode, and set the following item to "1".

• COPIER > OPTION > USER > SMD-EXPT

					1	Fop Log Out
		SERVICE MODE				
		COPIER	COPIER > OPTION > USE	R		
		FEEDER	USER			
		FAX				BACK
			COUNTER1	113		
		TESTMODE	COUNTER2	501		
		SERVICE REPORT	COUNTER3	301		
			COUNTER4	0		
			COUNTER5	0		
TNRB-SW : (о ПІ		COUNTER6	0		
SCALL-SW : ($\sim \sim \sim$	CNT-SW	\sim	$\sim \sim \sim$	\sim
SCALLCMP : (SMD-EXPT	1		
PC-MODE : (ACC-SLP	1		
			DRMRP-SW	0		
SMD-EXPT : ´						

NOTE:

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

- 2. Using the DCM function (Refer to "Setting Information Export/Import Function (DCM)" on page 57), export the following information.
 - · User data (the settings of the [Settings/Registration] menu and the address book)
 - · Service mode setting information
- 3. Write down the following information because these settings need to be configured (entered) after replacing the PCB.
 - The default settings shown on the service label [1]
 - · The machine's serial number
 - Settings/Registration > System Settings > Device Information> Location



4. Enter service mode, and set the following item to "0".

• COPIER > OPTION > USER > SMD-EXPT

					Ţ	op Log Out
		SERVICE MODE				
		COPIER	COPIER > OPTION > USE	R		
		FEEDER	USER			
		FAX				BACK
			COUNTER1	113		
		TESTMODE	COUNTER2	501		
		SERVICE REPORT	COUNTER3	301		
			COUNTER4	0		
			COUNTER5	0		
TNRB-SW	:0 П		COUNTER6	0		
	:0		CNT-SW	\sim	$\sim \sim \sim$	\sim
	:0		SMD-EXPT	1		
			ACC-SLP	1		
PC-MODE	: 0		DRMRP-SW	0		
SMD-EXPT	:1					

NOTE:

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

• After Replacing the Main Controller PCB

1. Setting of destination/paper size group

 COPIER > OPTION > BODY > LOCALE (to set destination groups) [Settings]

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

- COPIER > OPTION > BODY > SIZE-LC (to set paper size groups)
- [Settings]
 - 1: AB series, 2: Inch series, 3: A series, 4: AB/Inch series

2. Executing initial settings.

Perform the following procedure to change the settings back to the initial settings.

1. Execute the following service mode to initialize the data according to the setting values in step 1.

- COPIER > FUNCTION > CLEAR > ALL (to clear all data)
 - Setting / Registration data (the default value for each destination is set).
 - Service mode data (the default value for each destination is set).
 - Job IDs
 - Log data
 - Dates
- Execute the following service mode to clear the reader/DF-related factory adjustment values. COPIER > FUNCTION > CLEAR > R-CON

3. AGC adjustment

- 1. Entering a provisional value
 - Change the foregoing values to "1,000".
 - COPIER > ADJUST > CCD > LED-BW-R (Adjustment of LED light-up time (R) at B&W reading)
 - COPIER > ADJUST > CCD > LED-BW-G (Adjustment of LED light-up time (G) at B&W reading)

• COPIER > ADJUST > CCD > LED-BW-B (Adjustment of LED light-up time (B) at B&W reading) Change the foregoing values to "1,200"

- COPIER > ADJUST > CCD > LED-CL-R (Adjustment of LED light-up time (R) at color reading)
- COPIER > ADJUST > CCD > LED-CL-G (Adjustment of LED light-up time (G) at color reading)
- COPIER > ADJUST > CCD > LED-CL-B (Adjustment of LED light-up time (B) at color reading)
- 2. Adjust the white level in the following service mode.
 - COPIER > FUNCTION > CCD > BW-AGC (CIS intensity adjustment in ADF (B&W))
 - COPIER > FUNCTION > CCD > CL-AGC (CIS intensity adjustment in ADF (color))
- 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 > LED-BW-R (Adjustment of LED light-up time (R) at B&W reading)
- COPIER > ADJUST > CCD > LED-BW-G (Adjustment of LED light-up time (G) at B&W reading)
- COPIER > ADJUST > CCD > LED-BW-B (Adjustment of LED light-up time (B) at B&W reading)

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

- COPIER > ADJUST > CCD > LED-CL-R (Adjustment of LED light-up time (R) at color reading)
- COPIER > ADJUST > CCD > LED-CL-G (Adjustment of LED light-up time (G) at color reading)
- COPIER > ADJUST > CCD > LED-CL-B (Adjustment of LED light-up time (B) at color reading)

Check the foregoing values. If all of them remain "1,200", the operation result is judged to be "failed". If the operation result is judged to be "failed", turn OFF and then ON the power, and execute COPIER > FUNCTION >

CCD > CL-AGC again.

4. Executing initial adjustment.

Follow the procedure shown below to execute initial adjustment and enter the factory adjustment values.

- 1. Enter default setting values indicated on the service label in the corresponding service mode items.
- Execute the following service mode to back up the DC Controller setting values. COPIER > FUNCTION > VIFFNC > STOR-DCN
- 3. The initial installation mode will be activated by turning OFF and then ON the power. Configure the following settings according to the instruction on the screen.
 - · Setting of date/time
 - Auto-gradation correction
- Correction of coordinate position of Touch Panel in the following service mode. COPIER > ADJUST > PANEL > TOUCHCHK

5. Migrating the serial number

- 1. Enter the serial number (8-digit alphanumeric) in Settings/Registration > System Settings > Device Information > Location.
- 2. Execute the following service mode, and write the serial number entered in the previous step on the Main Controller PCB.

COPIER > OPTION > SERIAL > SN-MAIN

After it has been written, the serial number entered in "Location" is deleted.

- 3. Turn OFF and then ON the main power.
- 4. Execute the following service mode, and check the serial number on the System Management Data List that was output (Body. No.).

COPIER > FUNCTION > MISC-P > SPEC

6. Migrating user data and service mode data

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

NOTE:

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

- Using the DCM function (Refer to "Setting Information Export/Import Function (DCM)" on page 57), restore the following information.
 - User data (the settings of the [Settings/Registration] menu and the address book)
 - Service mode setting information
- 3. Enter service mode, and set the following item to "0".
 - COPIER > OPTION > USER > SMD-EXPT

NOTE:

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

7. Reinstall the drivers.

- 1. Uninstalling Old Drivers.
 - Printer Driver
 - FAX Driver
 - Scanner Driver
 - Network Scan Utility. (for machines with network connection)
 - * As for the procedure, refer to "Uninstalling the Software" in the Starter Guide.
- 2. Refer to the following items in the Startup Guide and install the drivers which were uninstalled.
 - In case of network connection: "Installing via Network Connection"
 - In case of USB connection: "Installing with USB Connection"

NOTE:

MAC address information is changed after replacement of the Main Controller PCB. Therefore, when the PC and the machine are connected by the network, the PC will not be able to recognize the machine on the network. When the PC and the machine are connected by the USB memory device, the PC will not be able to recognize the machine if the USB ID is changed. It becomes therefore necessary to reinstall the driver.

In the case of a model without fax for EUR (MF623Cn), perform the following works.

NOTE:

After replacing the Main Controller PCB, the value of the service mode (SDTM-DSP) to set whether to display or hide the automatic shutdown menu becomes "0" (default value).

In that case, the automatic shutdown menu is not displayed on the LUI of the machine.

To display the automatic shutdown menu on the LUI of the machine, it is necessary to execute this process.

8. Setting of automatic shutdown menu display

Set 1 for automatic shutdown menu display in service mode (default: 0). COPIER > OPTION > BODY > SDTM-DSP

9. Turn OFF and then ON the main power.

10. Checking the setting of Auto Sleep Time

In setting menu, check that the setting value of Auto Sleep Time is 1. (If the setting value is 0, automatic shutdown does not work.)

Menu > Timer Settings > Auto Shutdown Time

DC Controller PCB

• Before Replacing the DC Controller PCB

1. Execute the following service mode to restore the DC Controller setting values that were backed up in the previous step.

COPIER > FUNCTION > VIFFNC > STOR-DCN

• After Replacing the DC Controller PCB

1. In service mode, perform the following procedure to restore the DC Controller setting values.

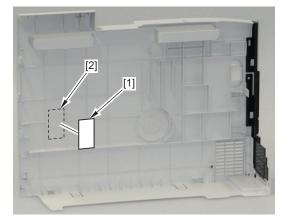
COPIER > FUINCTION > VIFFNC > RSTR-DCN When restoration is executed, "ACTIVE" will be displayed, and then "OK!" will be displayed in about 2 minutes at the completion of restoration.

- 2. When backup data cannot be uploaded before replacement due to reasons such as damage of the DC Controller PCB, enter the value of each service mode item described on the service label.
- 3. Turn OFF and then ON the power.
- 4. Configure the following settings from the Control Panel.
 - Menu > Adjustment/Maintenance > Print Color Displacement Correction
 - Menu > Adjustment/Maintenance > Auto Gradation Correction > Quick Correction
- 5. Turn OFF and then ON the power.

Laser Exposure System

After Replacing the Laser Scanner Unit

- 1. Register values indicated on the label packaged with the Laser Scanner Unit in the following service mode items.
 - COPIER > ADJUST > SCNR > SUB-S-Y0 (Laser output correction value, vertical scanning irradiation position0 Y)
 COPIER > ADJUST > SCNR > SUB-S-M0 (Laser output correction value, vertical scanning irradiation position0 M)
 - COPIER > ADJUST > SCNR > SUB-S-C0 (Laser output correction value, vertical scanning irradiation position C)
 - COPIER > ADJUST > SCNR > SUB-S-K0 (Laser output correction value, vertical scanning irradiation position0 K)
 - COPIER > ADJUST > SCNR > SUB-S-Y1 (Laser output correction value, vertical scanning irradiation position1 Y)
 - COPIER > ADJUST > SCNR > SUB-S-M1 (Laser output correction value, vertical scanning irradiation position1 M)
 - COPIER > ADJUST > SCNR > SUB-S-C1 (Laser output correction value, vertical scanning irradiation position1 C)
 - COPIER > ADJUST > SCNR > SUB-S-K1 (Laser output correction value, vertical scanning irradiation position1 K)
 - COPIER > ADJUST > SCNR > SUB-S-Y2 (Laser output correction value, vertical scanning irradiation position2 Y)
 - COPIER > ADJUST > SCNR > SUB-S-M2 (Laser output correction value, vertical scanning irradiation position2 M)
 - COPIER > ADJUST > SCNR > SUB-S-C2 (Laser output correction value, vertical scanning irradiation position2 C)
 - COPIER > ADJUST > SCNR > SUB-S-K2 (Laser output correction value, vertical scanning irradiation position2 K)
 - COPIER > ADJUST > SCNR > MAI-S-Y0 (Laser output correction value, horizontal scanning irradiation position0 Y)
 - COPIER > ADJUST > SCNR > MAI-S-M0 (Laser output correction value, horizontal scanning irradiation position0 M)
 COPIER > ADJUST > SCNR > MAI-S-C0 (Laser output correction value, horizontal scanning irradiation position0 C)
 - COPIER > ADJUST > SCNR > MAI-S-CO (Laser output correction value, horizontal scanning irradiation position0 K)
 - COPIER > ADJUST > SCNR > MAI-S-Y1 (Laser output correction value, horizontal scanning irradiation position1 Y)
 - COPIER > ADJUST > SCNR > MAI-S-M1 (Laser output correction value, horizontal scanning irradiation position1 M)
 - COPIER > ADJUST > SCNR > MAI-S-C1 (Laser output correction value, horizontal scanning irradiation position1 C)
 - COPIER > ADJUST > SCNR > MAI-S-K1 (Laser output correction value, horizontal scanning irradiation position1 K)
 - COPIER > ADJUST > SCNR > MAI-S-Y2 (Laser output correction value, horizontal scanning irradiation position2 Y)
 - COPIER > ADJUST > SCNR > MAI-S-M2 (Laser output correction value, horizontal scanning irradiation position2 M)
 - COPIER > ADJUST > SCNR > MAI-S-C2 (Laser output correction value, horizontal scanning irradiation position2 C)
 - COPIER > ADJUST > SCNR > MAI-S-K2 (Laser output correction value, horizontal scanning irradiation position2 K)
- 2. After values are registered, affix the label [1] packaged with the unit on the inside [2] of the right cover.





Troubleshooting

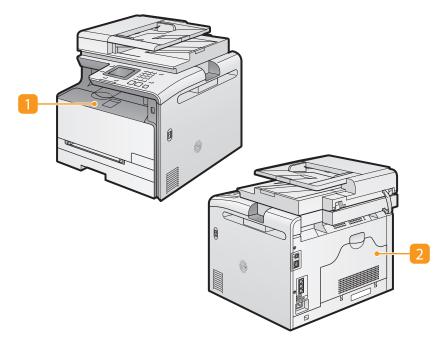
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Test Print

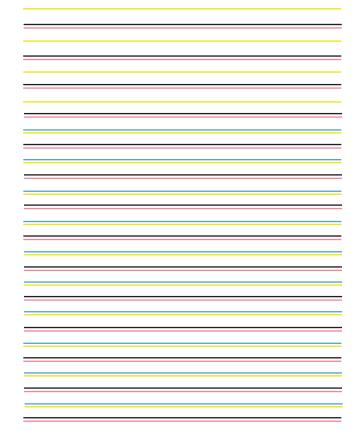
Engine test print

The engine test print is to check normal operation of the device. Print the engine test chart in the following steps.

1. Leave the front cover(1) and the rear cover(2) open to turn on the power.



- 2. Close the Front Cover (1) and the Rear Cover (2) within 5 seconds since the Control Panel lights up white.
- 3. The engine test chart is printed in the horizontal line patterns on a sheet as shown below.





Overview

This product provides the following 6 test chart types to determine causes of faulty images. The data for test charts are created in the main controller. If no problem is found on the output test charts, the cause may lie in the PDL input or the reader.

TYPE NO.	Test chart type	Purpose
0	Pascal correction chart 1	For checking density characteristic (Error diffusion)
1	Pascal correction chart 2	For checking density characteristic (Screen)
2	Color chart	For checking color reproduction characteristic
3	Color displacement correction chart	For checking color displacement correction
4	Rainbow chart (vertical scanning direction)	For checking color displacement (Vertical scanning)
5	Rainbow chart (horizontal scanning direction)	For checking color displacement (Horizontal scanning)
6	Grid Bk	For checking geometric characteristics and thin lines

Selecting test chart

- 1. Select the following item in service mode.
 - TESTMODE > PRINT > PG-TYPE
- 2. Enter TYPE NO from the numeric keypad and press [Apply] key.
- 3. Setting for test print can be changed in the following service mode. If no setting is made in Service mode, the test chart is output based on the default value of each Service mode item.

Item	Description	Default value
TESTMODE > PRINT > COUNT	Enter the number of sheets to output. Settings: 1-99	1
TESTMODE > PRINT > MODE	Specify how to form the image to be output. Regardless of PG-TYPE settings (0 or 1), the image is processed in the fixed meth- od. Settings: 0: T-MIC 1: High LPI screen 2: Low LPI screen 3: T-BIC	0
TESTMODE > PRINT > THRU	Select ON or OFF for gamma correction. Setting: 0: Normal gamma 1: Through (linear) gamma	0
TESTMODE > PRINT > NRKE	Flag to switch the color displacement correction processing 1 0: Adopt without processing 1: Adopt with processing	0
TESTMODE > PRINT > BLND	Flag to switch the color displacement correction processing 2 0: Adopt without processing 1: Adopt with processing	0
TESTMODE > PRINT > FEED	Select the paper source and press [Start] key to output in the specified settings as set in above steps. When the multi-purpose tray is selected, the sheet is fed only when paper in the specified size is set in the tray. When Cassette 2 is selected but the device has only a cassette, paper is fed from Cassette 1. *Any paper source with color paper is invalid for printing. Setting: 0: MPTray 1: Cassette 1 2: Cassette 2	1

- 4. Select the following item in service mode.
 - TESTMODE > PRINT > PG-TYPE > START

Troubleshooting items

Recurring faulty image

Foreign matters or lines on rollers along the paper feed path may cause faulty images in the vertical scanning direction.

Field action

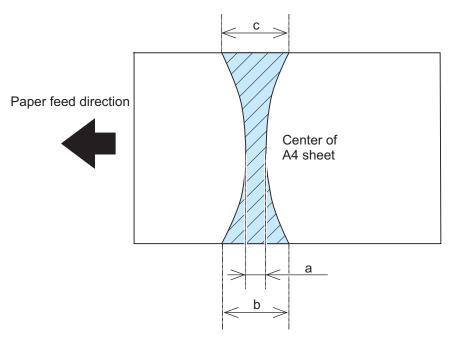
See the roller pitches listed in the tables below to clean and/or replace the corresponding parts.

Roller pitch	Parts		
about 44 mm	Registration roller		
about 57 mm	Secondary transfer external roller		
about 27 mm	Primary transfer roller		
about 76 mm	Photosensitive drum		
about 22 mm	Developing cylinder		
about 57 mm	Fixing film		
about 57 mm	Pressure roller		
about 634 mm	ITB		

Confirming nip width

This product does not provide the function to adjust nip width. Improper nip width, however, may cause faulty fixing.

- To avoid potential faults, confirm the nip width of the fixing assembly in the following steps.
- 1. Output a A4 sheet printed in solid black using the cartridges for this product and bring it to the customer site.
- 2. Set the solid black sheet face-down to the cassette of this product.
- 3. Use an external device to print out a solid white image on the sheet.
- 4. Open the front door after about 25 seconds from the step above and leave it for 10 seconds or more in the device to take out the printed sheet.
- 5. Measure the glossy part on the printed sheet as shown in the figure below to confirm if the width is in the tolerable ranges.
 - Center (a): 6.0+-1mm
 - Sides (b), (c): 5.0-7.5mm
 - Difference (b-c): 1.0mm or less



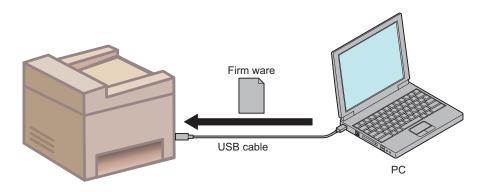
Version Upgrade



This machine supports the following two methods for upgrading the firmware.

- 1. User Support Tool (UST)
- 2. Via Internet

Upgrading by UST



Firmware configuration

Firmware	Function	Stored in
Boot ROM	Start the main controller.	Main controller PCB
Main Controller	Control overall performance.	Main controller PCB
LANGUAGE	Manage languages used in panel / Remote UI and font data.	Main controller PCB
DCON	Control the printer unit.	DC controller PCB

Some UST versions meet less numbers of firmware than those listed above.

Preparation

System Requirements

- OS (one of the following)
 - Microsoft Windows Server 2003
 - · Microsoft Windows Vista
 - Microsoft Windows Server 2008
 - Microsoft Windows 7
 - Microsoft Windows Server 2012
 - Microsoft Windows 8
- PC
 - · Compatible to the selected
 - · OSMemory (RAM): 32MB or more free space
 - Hard Disk: 100MB or more free space
 - Display: 640x480 pixels or more in resolution, 256 tones or more
 - With USB ports
- UST file for this product*

*: Download the corresponding file from the system CD or the service site (ask the service technician in charge for details)

• USB cable (USB1.1/2.0)

Preparation

1. Start the PC.

- 2. Connect the device to the PC with the USB cable.
- 3. Turn on the device on standby.
- 4. Press [Menu] key to upgrade firmware in User mode.

System Management Settings > Update Firmware > Via PC The message, "Will you restart the device to upgrade firmware?", is shown on the display. Select [Yes].

- 5. Press [OK] to automatically restart the device. "***DOWNLOAD MODE***" is shown on the display.
- 6. Wait for the motor of the host machine to stop.

NOTE:

Press STOP key to cancel Download mode and return to the normal operation.

Downloading System Software

1. Open UST.



2. Take a note of the firmware version to upgrade and click [Next] button.

	MF8200C/8500C	
Type BOOTABLE	Update to 205er0134	
LANGUAGE DEMOPRINT	205e/0085 205e/01/01	

3. Click [Next] button.

Canon U	ser Support Tool		
Update	preparation		
i	Before you start updating the firmware, check the following:		
7	 Turn on the device. Securely connect the USB cable or network cable to the device. If the device and the computer are connected by the USB cable, finish the setup to enable the device before updating. 		
	Switch to the update mode in the target device to enable firmware update.		
	<u> </u>		

4. Select [USB Device] and click [Next] button.

Canon User Support Tool			
Select device			
Select a printer name from the follo	unione first and exchanged	ID address to a	
device to update.	wing list, or enter the	IF address to se	siect the
 Specify by printer name 			
Printer name	Port nam	•	
(USB connected device)	USB002		
Specify by <u>IP</u> address			
1			
	< <u>B</u> ack	<u>N</u> ext>	Cancel

5. Click [Start] button.

Canon Us	ser Support Too		
Confirm	update details		
	This software program will update the firmware of the selected device with the following details. Check the details.		
	Target device:	(USB connected device)	
	Port name:	USB002	
	Click (Start) to upd	ake.	
		< Back Start Cancel	

6. Click [Yes] button for the warning message to start download.



7. Click [OK] button when download is completed.



- 8. Turn off and on the power to restart the device.
- 9. Output the spec report from Service mode to confirm if the firmware version is the same as that on the note taken in Step 2).

COPIER> FUNCTION> MISC-P> SPEC



Overview

Select to automatically install the firmware update without using a computer.

Preparation

- 1. Check that there are no other jobs being executed.
- 2. In an environment where access is obtained via a proxy server, the proxy setting is made from the remote UI. Settings/Registration > System Management Settings > Network Settings > TCP/IP Settings > Proxy Settings > Edit... > Use Proxy(select)Select the [Use Proxy] check box and specify the required settings.
- 3. Check that the serial number of the host machine is shown on the Main Controller PCB.

NOTE:

To upgrade the firmware of the host machine via Internet, the serial number of the machine need to be written on the Main Controller PCB.

Execute COPIER > FUNCTION > MISC-P > SPEC, and check that the BODY No. is registered. If the BODY No. has not been registered, register the serial number.

Procedure

1. Press the [Menu] key, and update the firmware via the Internet in user mode.

System Management Settings > Update Firmware > Via Internet

NOTE:

- Refer to the User's Manual of the device for how to connect the device to the external network.
- · This is applicable either in a wired LAN environment or a wireless LAN environment.

Messages

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

No.	Error message	The timing of oc- currence	Remedy
1	Job in progress Wait a moment, then try again.	If there is a job being executed:	 Wait until the job is completed. Cancel the job.
2	Cannot check the firmware version. (Server communication error.)	Network error	 Check whether the device can be connected to the 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 AVAILABLE IP ADRESS IP address of the machine PRESS STOP KEY TO EXIT	If update (writing) of the firmware has ended in failure:	1. Update the firmware again using UST.
5	***DOWNLOAD MODE*** FAILED TO UPDATE		
6	***DOWNLOAD MODE*** UPDATE IS COMPLETE	If the update of the firmware is successful	-

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.

NOTE:

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
- · With sufficient free space (of several MB)
- · Can be recognized by the machine

Collection procedure

The following shows the procedure for collecting the debug log from the Control Panel.

- 1. Connect a USB flash drive to the machine.
- 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. Remove the USB flash drive by the correct procedure.

Connect the USB flash memory to the PC, and check that the log file (SUBLOG.TXT) has been saved.

CAUTION:

The debug log file (SUBLOG.TXT) that can be collected from the machine is saved in clear text data that is not encrypted. As this data may contain information attributed to the user, it is necessary to gain approval from the user before collecting it.

Also, the collected file needs to be handled in the same manner as that for user data necessary for reproduction.

NOTE:

The following information is not included in the debug log of the machine:

- Job list (job name, user name, address)
- · Communications log (address, user name)
- Job log (user name, job name)



Error/Jam/Alarm

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Outline

This section describes codes shown in case any problem is occurred. Since this product does not collect logs for jams and alarms, no alarm code is shown.

Code type	Description	Reference
Error code	Shown for any problem occurred in the device.	List of error codes
Jam code	This code is displayed when a jam occurs inside the machine.	List of jam codes
Alarm code	N/A	-

Outline

This section describes codes shown in case any problem is occurred. Since this product does not collect logs for jams and alarms, no alarm code is shown.

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Alarm code	N/A	-

🔵 Jam code

Location code

Location information is displayed as 1-digit number as follows.

Device	Location code
Host machine	3
ADF	4

Position code

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

Device	Position code
ADF	0
MP Tray	0
Cassette 1	1

Error Codes

Whenever an error occurs, firstly turn off and on the power to check if the error is persistent.(Controller-related errors tend to recover by power-OFF/ON.)

* : Supported by model with FAX only

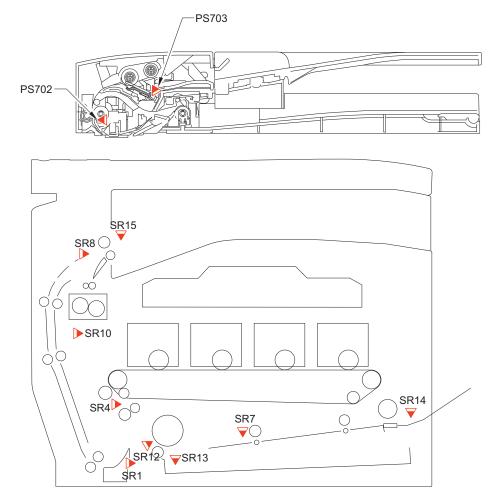
E Code	Detail Code	ltem	Description
E000	0000	Title	Error in temperature rising of Fixing Assembly
		Description	Temperature of the Fixing Assembly did not reach a certain temperature within the specified period of time.
		Remedy	 Check the connector connection between the Fixing Assembly and the DC Controller PCB. Replace the Fixing Assembly. Replace the DC Controller PCB.
E001	0000	Title	Abnormal high temperature of Fixing Assembly
		Description	It was detected that the temperature of the Fixing Assembly was abnormally high.
		Remedy	 Check the connector between the Fixing Assembly and the DC Controller PCB. Replace the Fixing Assembly. Replace the DC Controller PCB.
E003	0000	Title	Abnormal low temperature of Fixing Assembly
		Description	It was detected that the temperature of the Fixing Assembly was abnormally low.
		Remedy	 Check the connector between the Fixing Assembly and the DC Controller PCB. Replace the Fixing Assembly. Replace the DC Controller PCB.
E004	0000	Title	Error in fixing power supply drive circuit
		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 DC Controller PCB. Replace the Fixing Assembly.
			3. Replace the DC Controller PCB.
E012	0000	Title	Revolution of the ITB Motor did not reach the specified value
		Description	The cycle of the ITB Motor speed detection signal did not become the specified cycle since the ITB Motor started to be driven.
		Remedy	 Check the connector between the ITB Motor and the DC Controller PCB. Replace the ITB Motor. Replace the DC Controller PCB.
E012	0001	Title	Revolution of the ITB Motor was out of the specified range
		Description	After the cycle of the ITB Motor speed detection signal became the specified cycle once, it deviated from the specified cycle.
		Remedy	 Check the connector between the ITB Motor and the DC Controller PCB. Replace the ITB Motor. Replace the DC Controller PCB.
E015	0001	Title	Error in Developing Disengagement Motor
		Description	Change in signal status of the Developing Home Position Sensor could not be detected al- though a specified period of time has passed after rotating the Main Motor for engagement/ disengagement operation of the Developing Cylinder.
		Remedy	 Check the connectors connecting the Developing Home Position Sensor, Main Motor and the DC Controller PCB. Replace the Developing Home Position Sensor. Replace the Main Motor. Replace the DC Controller PCB.
E020	0000	Title	Density Sensor error
		Description	Sufficient amount of light could not be received when detecting image density.
		Remedy	 Check the connector of the DC Controller PCB. Replace the ITB Unit. Replace the DC Controller PCB. Replace the Toner Cartridge.
		1	
E066	0000	Title	Environment Sensor error

E Code	Detail Code	Item	Description
E066	0000	Remedy	 Check the connector between the Environment Sensor and DC Controller PCB. Replace the Environment Sensor.
			3. Replace the DC Controller PCB.
E070	0000	Title	ITB/TOP Sensor error
		Description	ITB/TOP Sensor error
		Remedy	 Check the connector between the ITB Unit and DC Controller PCB. Replace the ITB Unit. Replace the DC Controller PCB.
E100	0000	Title	Error in Laser Scanner Motor or Laser Scanner Unit (Y)
		Description	Error in the BD detection value in the Laser Scanner Motor or the Laser Scanner Unit (Y)
		Remedy	 Check the connector between the Laser Scanner Unit and the DC Controller PCB. Replace the Laser Scanner Unit. Replace the DC Controller PCB.
E100	0001	Title	Error in Laser Scanner Motor or Laser Scanner Unit (Y)
		Description	Error in the BD detection value in the Laser Scanner Motor or the Laser Scanner Unit (Y)
		Remedy	 Check the connector between the Laser Scanner Unit and the DC Controller PCB. Replace the Laser Scanner Unit. Replace the DC Controller PCB.
E100	0002	Title	Error in Laser Scanner Motor or Laser Scanner Unit (C)
		Description	Error in the BD detection value in the Laser Scanner Motor or the Laser Scanner Unit (C)
		Remedy	 Check the connector between the Laser Scanner Unit and the DC Controller PCB. Replace the Laser Scanner Unit. Replace the DC Controller PCB.
E100	0003	Title	Error in Laser Scanner Motor or Laser Scanner Unit (Bk)
		Description	Error in the BD detection value in the Laser Scanner Motor or the Laser Scanner Unit (Bk)
		Remedy	 Check the connector between the Laser Scanner Unit and the DC Controller PCB. Replace the Laser Scanner Unit. Replace the DC Controller PCB.
E110	0000	Title	Laser Scanner error
		Description	The Laser Scanner Motor did not become ready although a specified period of time had passed.
		Remedy	 Replace the Laser Scanner Unit. Replace the DC Controller PCB.
E196	0000	Title	DCON ROM error
		Description	The ROM of the DC Controller PCB failed to be updated.
		Remedy	 Install the set of the controller firmware. Replace the DC Controller PCB.
E196	1000	Title	Main Controller PCB writing/reading error
		Description	Error in writing/reading of main program in the Main Controller PCB
		Remedy	 Install the set of the controller firmware. Replace the Main Controller PCB.
E196	2000	Title	Main Controller PCB writing/reading error
		Description	Error in writing/reading of the setting values storage area in the Main Controller PCB
		Remedy	 Install the set of the controller firmware. Replace the Main Controller PCB.
E198	0000	Title	DC Controller memory error
		Description	Error in the nonvolatile memory on the DC Controller
		Remedy	Replace the DC Controller PCB.
E202	0001	Title	CIS Unit HP error (outward)
		Description	The CIS Unit did not move to HP even it moved backward. Reader HP Sensor error, Reader Motor error, CIS Unit error
		Remedy	 Replace the Reader HP Sensor. Replace the Reader Motor. Replace the CIS Unit.
5000	0000	T 'U -	4. Replace the Reader Unit.
E202	0002	Title	CIS Unit HP error (homeward)
		Description	The CIS Unit did not move to HP even it moved forward. Reader HP Sensor error, Reader Motor error, CIS Unit error

E Code	Detail Code	Item	Description
E202	0002	Remedy	1. Replace the Reader HP Sensor.
			2. Replace the Reader Motor.
			 Replace the CIS Unit. Replace the Reader Unit.
E225	0001	Title	Light intensity of the CIS Unit below the reference level
L225	0001	Description	When the light intensity is below the reference level at shading
		Remedy	1. Disconnect and then connect the Flexible Cable.
		Remedy	 2. Replace the Flexible Cable.
			3. Replace the CIS Unit.
			4. Replace the Main Controller PCB (PCB2).
E248	0001	Title	Error in access to backup data for Reader (reading error at power-on)
		Description	The Reader-related adjustment values could not be read.
		Remedy	1. Clear the backup RAM of RCON. Execute COPIER > FUNCTION > CLEAR > RCON.
			 Enter all the values written on the service label in service mode again. Turn OFF and then ON the main power.
E250	0000	Title	Error in the One-Touch Key Cover Sensor
L230	0000	Description	Error in the One-Touch Key Cover Sensor
		Remedy	1. Check the One-Touch Key Cover Sensor.
		Ternedy	2. Turn OFF and then ON the power.
			3. Replace the Control Panel.
E351	0000	Title	System error
		Description	System error
		Remedy	1. Install the set of the controller firmware.
			2. Replace the Main Controller PCB.
E732	0000	Title	Scanner communication error
		Description	Scanner communication error
		Remedy	1. Check the connector connection between the Engine Controller PCB and the Main Con-
			troller PCB. 2. Install the set of the controller firmware.
			3. Replace the Main Controller PCB.
			4. Replace the Engine Controller PCB.
E733	0000	Title	Printer communication error
		Description	Communication error between the Engine Controller PCB and the Main Controller PCB oc-
			curred.
		Remedy	1. Check the connector connection between the Engine Controller PCB and the Main Con- troller PCB.
			2. Install the set of the controller firmware.
			3. Replace the Main Controller PCB.
			4. Replace the Engine Controller PCB.
E736 *	0000	Title	Communication error with CCU/modem
		Description	Communication error with CCU/modem NCU PCB type error
		Remedy	1. Install the set of the controller firmware.
			 Replace the NCU PCB. Replace the Main Controller PCB.
E736 *	0001	Title	Error in ROM for backing up fax data
2700	0001	Description	An error occurred in ROM for backing up fax data
		Remedy	1. Install the set of the controller firmware.
		Ternedy	 Replace the Main Controller PCB.
E744	0001	Title	Language file version error
		Description	Language file version was not matched with the main program.
		Remedy	Install the set of the controller firmware.
E744	0002	Title	Language file size error
		Description	The size of the language file exceeded the upper limit.
		Remedy	Install the set of the controller firmware.
E744	1001	Title	Firmware version error
		Description	Versions of the main program and the start-up program were not matched.
		Remedy	Install the set of the controller firmware.

E Code	Detail Code	ltem	Description
E744	4000	Description	Invalid engine connection was detected.
		Remedy	 Turn OFF and then ON the main power. Check the DC Controller PCB. Install the DC Controller PCB. Install the set of the controller firmware. Check the model code. (When the model code and the engine code are mismatched, E744-4000 occurs.)
E744	5000	Title	Error in the Control Panel PCB
		Description	Error in the Control Panel PCB (microcomputer)
		Remedy	 Check the Control Panel PCB, and install the firmware (PANEL). Install the set of the controller firmware. Replace the Main Controller PCB.
E744	6000	Title	Communication error with Wireless LAN PCB
		Description	Communication with the Wireless LAN PCB could not be established.
		Remedy	 Turn OFF and then ON the main power. Check the connection of the Wireless LAN PCB. Install the set of the controller firmware. Replace the Main Controller PCB.
E744	7000	Title	Main Controller PCB error
		Description	An error in the microcomputer which retains fax job information of the Main Controller PCB
		Remedy	 Install the firmware of BKUP. Install the set of the controller firmware. Replace the Main Controller PCB.
E746	0000	Title	Main Controller PCB error
		Description	Main Controller communication error occurred (other than scan).
		Remedy	 Install the set of the controller firmware. Replace the Main Controller PCB.
E766	xxxx ^{*1}	Title	Firmware error
		Description	An error in connection occurred due to controller software.
		Remedy	Due to firmware error, the possibility of solving the error by replacing the Main Controller PCB is low. Check the installed engine again.
E766	8000	Title	Firmware error
		Description	Information at color displacement correction could not be obtained.
		Remedy	 Install the DC Controller firmware. Install the set of the controller firmware. Replace the DC Controller PCB.
E766	9000	Title	Scanner power state error (firmware-dependent)
		Description	Error in power state of the Laser Scanner Unit (firmware-dependent)
		Remedy	 Install the set of the controller firmware. Replace the Laser Scanner Unit.
E806	0000	Title	Fixing Power Supply Cooling Fan error
		Description	The Fixing Power Supply Cooling Fan failed to rotate at the specified revolution.
		Remedy	 Check the connector between the Fixing Power Supply Cooling Fan and the DC Controller PCB. Replace the Fixing Power Supply Cooling Fan. Replace the DC Controller PCB.
E840	0000	Title	Error in pressure release mechanism of the Fixing Assembly
		Description	Although the Fixing Assembly started moving to the home position, it failed to be at the position.
		Remedy	 Replace the Fixing Drive Assembly. Replace the Fixing Pressure Release Cam.

Jam Code



ACC ID	JamCode	Туре	Sensor Name/Detection Contents	Sensor ID
04	0001	Delay	Document End Sensor Delay	PS702
04	0002	Stationary	Document End Sensor	PS702
03	0040	Size error	Size error	-
03	0060	Size error	Size error	-
04	0071	Sequence	Sequence Error	-
04	0094	Power ON	Document End Sensor / Document Sensor	PS702/PS703
03	0104	Delay	Registration Detection Sensor	SR602
03	010C		Fixing Delivery Sensor	SR609
03	014C			
03	0184		Registration Detection Sensor	SR602
03	0208	Stationary	Registration Detection Sensor	SR602
03	0210		Fixing Delivery Sensor	SR609
03	0217		Registration Detection Sensor Fixing Delivery Sensor MP Tray Pre-Registration Detection Sensor	SR602/SR605/SR609
03	021C	Wrap	Fixing Delivery Sensor	SR609
03	0248	Stationary	Registration Detection Sensor	SR602
03	0250		Fixing Delivery Sensor	SR609
03	0257		Registration Detection Sensor Fixing Delivery Sensor MP Tray Pre-Registration Detection Sensor	SR602/SR605/SR609
03	025C	Wrap	Fixing Delivery Sensor	SR602
03	1014	Power ON	Registration Detection Sensor	SR602/SR603/SR609
03	1054]	Fixing Delivery Sensor Fixing Loop Sensor	

7. Error/Jam/Alarm

ACC ID	JamCode	Туре	Sensor Name/Detection Contents	Sensor ID
03	1094	Power ON	Registration Detection Sensor	SR602/SR603/SR609
03	10D4	-	Fixing Delivery Sensor Fixing Loop Sensor	
03	1118	Door Open	Registration Detection Sensor	SR602/SR609/SR612/
03	1158		Fixing Delivery Sensor	SR613
03	1198		Front Cover Sensor Rear Cover Sensor	
03	11D8			

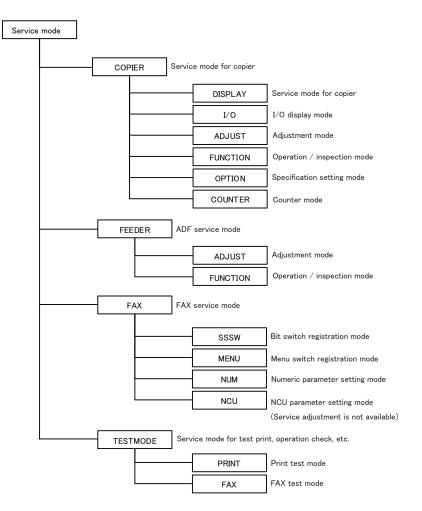


Service Mode

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Overview

Service Mode Menu



Backing up Service Mode

Each device is tuned at the time of shipment and the tuned values are written on the service label.

However, when replacing the main controller PCBs / DC controller PCBs or clearing RAM, tuned ADJUST and OPTION values are reset to defaults. Each service technician should adjust these values in field and ensure to write values after changes in the service label. If the corresponding item is not found on the service label, enter the value in the blank space.



Screen flow of Service mode

Initial screen

Scroll the screen. Go to Category / Sub category selection : Tap the screen. screen Go to Up category screen

: Flick the screen.

: Return key

SERVICE MODE COPIER FEEDER FAX TESTMODE

· Category / Sub category selection screen

Scroll the screen.	: Flick the screen.
Go to Item selection screen	: Tap the screen.
Go to Initial screen	: Return key

DISPLAY **I**0 ADJUST FUNCTION

OPTION

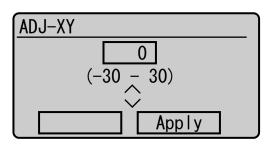
· Item selection screen

Select the item	: Flick the screen.
Go to Numeric value entry screen	: Tap the screen.
Go to Category / Sub category selection	: Return key
screen	

ADJ-XY	
CCD	
PASCAL	
VIFADJ	
SCNR	

• Numeric value entry screen

Enter the setting value.	: numeric keypad
Switch the sign (+/-) of the value	: [*] Key
Increment the setting value one by one	: [▲] (Tap the screen)
Decrease the setting value one by one	: [▼] (Tap the screen)
Change the setting	: [Apply] Key (Tap the screen)
Change no settings	: Return key



- · Method to display the setting value of switch
 - On decimal display format, display is left aligned. (Comma is put every 3 digits.)
 - On binary display format, the most significant bit is placed at the leftmost position and the least significant bit is placed at the rightmost position.

Remote UI service mode

Function Overview

Remote UI can be used to display, set and implement various service mode in addition to rebooting the machine. In this case, machine's UI displays "Remote service mode".

Operating condition

Operation of service mode using remote UI becomes possible in the following cases:

- · Service mode is not used on LUI.
- There is no user who has been logged in to the remote UI service mode (this function).
- Remote UI is enabled in the setting of LUI.
- Setting Menu > System Management Settings > Remote UI On/Off
- "RMT-SW" is enabled in service mode (Enabled when the setting value is "1".) COPIER > OPTION > BODY > RMT-SW (remote UI service mode function)
 0: OFF, 1: ON (default)

Usage method

- 1. Activate the Web browser.
- 2. Enter the following URL in the address input field. http://<IP address of the machine or host name>/servicemode.html
- 3. Enter the password and click "Log In".

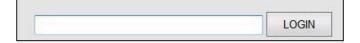
* Password required for authentication differs depending on the service mode setting. COPIER > OPTION > BODY > PSWD-SW

PSWD-SW	Password required for authentication
0	1. Password of RUI service mode
1	 Password of RUI service mode Password of service mode
2	 Password of RUI service mode User's system administrator ID Password of system administrator Password of service mode

* Password of service mode can be changed in COPIER > OPTION > BODY > SM-PSWD.

• Authentication screen

1. PSWD-SW: 0



2. PSWD-SW: 1

LOGIN

3. PSWD-SW: 2

System Manager ID:	
System Manager PIN:	
Service Mode PIN:	
	LOGIN

4. Click "Logout" to end the operation.

NOTE:

After login, if you close the browser without "logout", it is recognized that you have been "logged in". Therefore, in order to log in to service mode again, you must wait for a certain period of time (3 minutes) from the last access to make the system timeout or turn OFF/ON the power.

COPIER

DISPLAY

VERSION

COPIER > DISPLAY > VERSION		
ltem	Description	
MAIN		
Title	Display of MAIN (main program) version	
Details	To display the firmware version of Main Controller PCB.	
Use case	When upgrading the firmware	
Adj/set/operate method	N/A (Display only)	
Display/adj/set range	00.00 to 99.99	
BOOT		
Title	Boot ROM version	
Details	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	00.01 to 99.99	
LANG		
Title	Language pack version	
Details	To display the version of language pack.	
Use case	When upgrading the firmware	
Adj/set/operate method	N/A (Display only)	
Display/adj/set range	00.00 to 99.99	
DEMODATA		
Title	Demo print data version	
Details	To display the version of demo print data. Since this machine does not have 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	00.01 to 99.99	
ECONT		
Title	ECONT version	
Details	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	00.01 to 99.99	
PANEL		
Title	Dspl of Control Panel CPU PCB ROM ver	
Details	To display the ROM version of Control Panel CPU PCB.	
Use case	When upgrading the firmware	
Adj/set/operate method	N/A (Display only)	
Display/adj/set range	00.00 to 99.99	
Related service mode	COPIER > FUNCTION > SYSTEM > PANEL-UP	
ECO		
Title	For R&D	

ERR

Error code display screen

Up to 20 E codes and detailed codes for system errors can be shown.

JAM

Jam code display screen

Up to 20 Jam codes and detailed codes for system errors can be shown.

COPIER > DISPLAY > CCD		
Item Description		
TARGET-B		
Title	Shading target value (B)	
Details	To display the shading target value of Blue. Continuous display of 128 (minimum) or 384 (maximum) is considered a failure of the CIS Unit.	
Use case	At scanned image failure	
Adj/set/operate method	N/A (Display only)	
Display/adj/set range	128 to 384	
Default value	269	
Related service mode	COPIER > ADJUST > CCD > DFTAR-B	
TARGET-G		
Title	Shading target value (G)	
Details	To display the shading target value of Green. Continuous display of 128 (minimum) or 384 (maximum) is considered a failure of the CIS Unit.	
Use case	At scanned image failure	
Adj/set/operate method	N/A (Display only)	
Display/adj/set range	128 to 384	
Default value	270	
Related service mode	COPIER > ADJUST > CCD > DFTAR-G	
TARGET-R		
Title	Shading target value (R)	
Details	To display the shading target value of Red. Continuous display of 128 (minimum) or 384 (maximum) is considered a failure of the CIS Unit.	
Use case	At scanned image failure	
Adj/set/operate method	N/A (Display only)	
Display/adj/set range	128 to 384	
Default value	263	
Related service mode	COPIER > ADJUST > CCD > DFTAR-R	
TARGETBW	TARGETBW	
Title	Shading target value (BW)	
Details	To display the shading target value at B&W jobs. Continuous display of 128 (minimum) or 384 (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	128 to 384	
Default value	276	
Related service mode	COPIER > ADJUST > CCD > DFTAR-BW	



R-CON

	COPIER>IO>R-CON		
Ad-	Ad- BIT Description Remarks		Remarks
dress			
P001	0		While the screen is open, the values are updated periodically (with an interval of 1 second).
	1	Display sensor status (Document sensor)	

	COPIER>IO>R-CON			
Ad-	Ad- BIT Description Remarks		Remarks	
dress				
P001	2	Display sensor status (HPS)	While the screen is open, the values are updated periodically (with an interval of 1 second).	
P002	-	No sensor allocated; 0 is always shown	While the screen is open, the values are updated periodically (with an interval of 1 second).	

ADJUST

■ ADJ-XY

COPIER > ADJUST > ADJ-XY		
Item Description		
ADJ-X		
Title	Adj of img pstn in book mode: vert scan	
Details	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. When the non-image width is larger than the standard value, set the smaller value. When out of original area is copied, set the larger value. As the value is incremented by 1, the image position moves to the trailing edge side by 0.1mm.	
Use case	 When replacing the Reader Unit When replacing the CIS Unit (Scanner Unit) When replacing the Main Controller PCB 	
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and 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		
Title	Adjustment of image position at copyboard reading (horizontal scanning direction)	
Details	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. When the non-image width is larger than the standard value, set the smaller value. When out of original area is copied, set the larger value. As the value is incremented by 1, the image position moves to the front by 0.1mm.	
Use case	 When replacing the Reader Unit When replacing the CIS Unit (Scanner Unit) When replacing the Main Controller PCB 	
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/adj/set range	-10 to 10	
Unit	0.1 mm	
Default value	0	
ADJ-Y-DF		
Title	Adj img pstn in ADF mode:horz scan	
Details	To adjust the image reading start position in the horizontal scanning direction at ADF reading. When replacing the Main Controller PCB, enter the value of service label. As the value is incremented by 1, the image position moves to the front by 0.1mm.	
Use case	 When replacing the ADF When replacing the CIS Unit (Scanner Unit) When replacing the Main Controller PCB 	
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/adj/set range	-10 to 10	
Unit	0.1 mm	
Default value	0	

	COPIER > ADJUST > ADJ-XY
Item Description	
ADJ-X-MG	
Title	Fine adj image ratio: vertical scanning
Details	To make a fine adjustment of image magnification ratio in the vertical scanning direction by changing the reading cycle of CIS When replacing the Engine Controller PCB / clearing the RAM data, enter the value of service label. As the value is changed by 1, the image magnification ratio is changed by 0.01%. +: Reduce -: Enlarge
Use case	 When replacing the ADF When replacing the CIS Unit (Scanner Unit) When replacing the Main Controller PCB
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Caution	After the setting value is changed, write the changed value in the service label.
Display/adj/set range	-200 to 200
Unit	0.01%
Default value	0
STRD-POS	
Title	Adjustment of reading position at ADF stream reading
Details	To adjust the reading position at ADF stream reading. When replacing the Main Controller PCB, enter the value of service label.
Use case	When replacing the ADF When replacing the CIS Unit (Scanner Unit) When replacing the Main Controller PCB
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and 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 > STRD-POS

COPIER > ADJUST > CCD		
ltem	Description	
OFST-BW0		
Title	Adjustment of CIS (Rear) at B&W reading	
Details	To adjust the offset of the CIS (Rear) when reading B&W original. When replacing the Main Controller PCB / clearing the 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	8	
Related service mode	COPIER > FUNCTION > CCD > BW-AGC	
OFST-BW1		
Title	Adjustment of CIS (Center) at B&W reading	
Details	To adjust the offset of the CIS (Center) when reading B&W original. When replacing the Main Controller PCB / clearing the 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	8	
Related service mode	COPIER > FUNCTION > CCD > BW-AGC	
OFST-BW2		
Title	Adjustment of CIS (Front) at B&W reading	

COPIER > ADJUST > CCD		
Item	Description	
Details	To adjust the offset of the CIS (Front) when reading B&W original. When replacing the Main Controller PCB / clearing the 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	8	
Related service mode	COPIER > FUNCTION > CCD > BW-AGC	
OFST-CL0		
Title	Adjustment of CIS (Rear) at color reading	
Details	To adjust the offset of the CIS (Rear) when reading color original. When replacing the Main Controller PCB / clearing the 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	8	
Related service mode	COPIER > FUNCTION > CCD > CL-AGC	
OFST-CL1		
Title	Adjustment of CIS (Center) at color reading	
Details	To adjust the offset of the CIS (Center) when reading color original. When replacing the Main Controller PCB / clearing the 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	8	
Related service mode	COPIER > FUNCTION > CCD > CL-AGC	
OFST-CL2		
Title	Adjustment of CIS (Front) at color reading	
Details	To adjust the offset of the CIS (Front) when reading color original. When replacing the Main Controller PCB / clearing the 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	8	
Related service mode	COPIER > FUNCTION > CCD > CL-AGC	
GAIN-BW0		
Title	Adjustment of gain at B&W reading	
Details	To adjust the gain when reading B&W original. When replacing the Main Controller PCB / clearing the 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	1 to 255	
Default value	64	
Related service mode	COPIER > FUNCTION > CCD > BW-AGC	
GAIN-CL0		
Title	Adjustment of gain at color reading	
Details	To adjust the gain when reading color original. When replacing the Main Controller PCB / clearing the 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	1 to 255	
Default value	64	
Related service mode	COPIER > FUNCTION > CCD > CL-AGC	
LED-BW-R		
Title	Adjustment of LED light-up time (R) at B&W reading	
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PCB / clearing the 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 2432 Default value 1200 Related service mode COPIER > FUNCTION > CCD > BW-AGC LED-CL-G Title Adjustment of LED light-up time (G) at color reading	COPIER > ADJUST > CCD		
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Default value 1200	Adj/set/operate method	Enter the setting value, and then press Apply key.	
	Display/adj/set range	0 to 2432	
Related service mode COPIER > FUNCTION > CCD > BW-AGC	Default value	1200	
	Related service mode	COPIER > FUNCTION > CCD > BW-AGC	

PASCAL

COPIER > ADJUST > PASCAL		
Item Description		
OFST-P-Y		
Title	Y density adj at test print reading	
Details	To adjust the offset of Y color test print reading signal at Auto Adjust Gradation (Full Adjust). When replacing the Main Controller PCB / clearing the RAM data, enter the value of service label. As the greater value is set, the image after adjustment gets darker.	
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 press Apply key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/adj/set range	-32 to 32	
Default value	0	
OFST-P-M		
Title	M density adj at test print reading	
Details	To adjust the offset of M color test print reading signal at Auto Adjust Gradation (Full Adjust). When replacing the Main Controller PCB / clearing the RAM data, enter the value of service label. As the greater value is set, the image after adjustment gets darker.	
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 press Apply key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/adj/set range	-32 to 32	
Default value	0	
OFST-P-C		
Title	C density adj at test print reading	
Details	To adjust the offset of C color test print reading signal at Auto Adjust Gradation (Full Adjust). When replacing the Main Controller PCB / clearing the RAM data, enter the value of service label. As the greater value is set, the image after adjustment gets darker.	
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 press Apply key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/adj/set range	-32 to 32	
Default value	0	
OFST-P-K		
Title	Bk density adj at test print reading	
Details	To adjust the offset of Bk color test print reading signal at Auto Adjust Gradation (Full Adjust). When replacing the Main Controller PCB / clearing the RAM data, enter the value of service label. As the greater value is set, the image after adjustment gets darker.	
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 press Apply key.	
Caution	After the setting value is changed, write the changed value in the service label.	
Display/adj/set range	-32 to 32	
Default value	0	

VIFADJ

COPIER > ADJUST > VIFADJ			
Item	Item Description		
DEV-HV-Y	DEV-HV-Y		
Title	Adjustment of developing bias setting value (Y)		
Details	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 press Apply key.		
Display/adj/set range	-5 to 5		
Default value	0		

COPIER > ADJUST > VIFADJ		
Item	Description	
Related service mode	COPIER > ADJUST > VIFADJ > DEV-HV-M COPIER > ADJUST > VIFADJ > DEV-HV-C COPIER > ADJUST > VIFADJ > DEV-HV-K	
DEV-HV-M		
Title	Adjustment of developing bias setting value (M)	
Details	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 press Apply key.	
Display/adj/set range	-5 to 5	
Default value	0	
Related service mode	COPIER > ADJUST > VIFADJ > DEV-HV-Y COPIER > ADJUST > VIFADJ > DEV-HV-C COPIER > ADJUST > VIFADJ > DEV-HV-K	
DEV-HV-C		
Title	Adjustment of developing bias setting value (C)	
Details	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 press Apply key.	
Display/adj/set range	-5 to 5	
Default value	0	
Related service mode	COPIER > ADJUST > VIFADJ > DEV-HV-Y COPIER > ADJUST > VIFADJ > DEV-HV-M COPIER > ADJUST > VIFADJ > DEV-HV-K	
DEV-HV-K		
Title	Adjustment of developing bias setting value (Bk)	
Details	To adjust the setting value of Bk-color developing bias.	
Use case	When an image failure occurs	
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.	
Display/adj/set range	-5 to 5	
Default value	0	
Related service mode	COPIER > ADJUST > VIFADJ > DEV-HV-Y COPIER > ADJUST > VIFADJ > DEV-HV-M COPIER > ADJUST > VIFADJ > DEV-HV-C	
TR1-HV-Y		
Title	Adjustment of primary transfer bias setting value (Y)	
Details	To adjust the setting value of Y-color primary transfer bias.	
Use case	When an image failure occurs	
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.	
Display/adj/set range	-5 to 5	
Default value	0	
Related service mode	COPIER > ADJUST > VIFADJ > TR1-HV-M COPIER > ADJUST > VIFADJ > TR1-HV-C COPIER > ADJUST > VIFADJ > TR1-HV-K	
TR1-HV-M		
Title	Adjustment of primary transfer bias setting value (M)	
Details	To adjust the setting value of M-color primary transfer bias.	
Use case	When an image failure occurs	
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.	
Display/adj/set range	-5 to 5	
Default value	0	
Related service mode	COPIER > ADJUST > VIFADJ > TR1-HV-Y COPIER > ADJUST > VIFADJ > TR1-HV-C COPIER > ADJUST > VIFADJ > TR1-HV-K	
TR1-HV-C		
Title	Adjustment of primary transfer bias setting value (C)	

Display/adj/set range -5 to 5 Default value 0 COPIER > ADJUS T > VIFADJ > TR1-HV-Y COPIER > ADJUS T > VIFADJ > TR1-HV-Y COPIER > ADJUS T > VIFADJ > TR1-HV-X TR1-HV-K TTILe Adjustment of primary transfer bias setting value (8k) Details To adjust the setting value of Bk-color primary transfer bias. Use case When an image failure occurs Adj/set/operate method Enter the setting value (switch negative / positive by * key) and press Apply key. Display/adj/set range -5 to 5 Default value 0 Related service mode COPIER > ADJUST > VIFADJ > TR1-HV-K TT2EX-HV TTILe Adjustment of primary transfer bias setting value (front side) To adjust the setting value of secondary transfer bias (front side) Details To adjust the setting value of secondary transfer bias (front side) Details To adjust the setting value (switch negative / positive by * key) and press Apply key. Display/adj/set range -5 to 5 Default value 0 Related service mode COPIER > ADJUST > VIFADJ > TR1-HV-K TR2SF-HV TTILe Adjustment of secondary transfer bias setting value (front side) Details To adjust the setting value of secondary transfer bias (front side) Details To adjust the setting value (switch negative / positive by * key) and press Apply key. Display/adj/set range -5 to 5 Default value 0 Related service mode COPIER > ADJUST > VIFADJ > TR2EK-HV TR2BK-HV TR2BK-HV TR2BK-HV TTHE Adjustment of secondary transfer bias setting value (back side) Details To adjust the setting value (switch negative / positive by * key) and press Apply key. Display/adj/set range -5 to 5 Default value 0 Related service mode COPIER > ADJUST > VIFADJ > TR2EK-HV TR2BK-HV TTR2BK-HV TTILe Adjustment of secondary transfer bias setting value (back side). Use case When an image failure occurs Adj/set/operate method Enter the setting value (switch negative / positive by * key) and press Apply key. Display/adj/set range -5 to 5 Default value 0 Related service mode COPIER > ADJUST > VIFADJ > TR2EK-HV TTILe Adjustment of bias setting value for ITB cleaning. Use case When an image failure occurs A	COPIER > ADJUST > VIFADJ		
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TitleAdjustment of bias setting value for ITB cleaningDetailsTo adjust the bias setting value to be used for ITB cleaning.Use caseWhen an image failure occursAdj/set/operate methodEnter the setting value (switch negative / positive by * key) and press Apply key.Display/adj/set range-5 to 5Default value0FU-TMPTitleAdjustment of setting value of Fixing Roller surface temperatureDetailsTo adjust the setting value of the surface temperatureDetailsTo adjust the setting value of the surface temperature of the Fixing Roller.Use caseWhen an image failure occursAdj/set/operate methodEnter the setting value (switch negative / positive by * key) and press Apply key.Display/adj/set range-2 to 2	Related service mode	COPIER > ADJUST > VIFADJ > TR2SF-HV	
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Adj/set/operate methodEnter the setting value (switch negative / positive by * key) and press Apply key.Display/adj/set range-5 to 5Default value0FU-TMP-TitleAdjustment of setting value of Fixing Roller surface temperatureDetailsTo adjust the setting value of the surface temperature of the Fixing Roller.Use caseWhen an image failure occursAdj/set/operate methodEnter the setting value (switch negative / positive by * key) and press Apply key.Display/adj/set range-2 to 2	Details	To adjust the bias setting value to be used for ITB cleaning.	
Display/adj/set range-5 to 5Default value0FU-TMPTitleAdjustment of setting value of Fixing Roller surface temperatureDetailsTo adjust the setting value of the surface temperature of the Fixing Roller.Use caseWhen an image failure occursAdj/set/operate methodEnter the setting value (switch negative / positive by * key) and press Apply key.Display/adj/set range-2 to 2	Use case	When an image failure occurs	
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FU-TMP Title Adjustment of setting value of Fixing Roller surface temperature Details To adjust the setting value of the surface temperature of the Fixing Roller. Use case When an image failure occurs Adj/set/operate method Enter the setting value (switch negative / positive by * key) and press Apply key. Display/adj/set range -2 to 2	Display/adj/set range	-5 to 5	
TitleAdjustment of setting value of Fixing Roller surface temperatureDetailsTo adjust the setting value of the surface temperature of the Fixing Roller.Use caseWhen an image failure occursAdj/set/operate methodEnter the setting value (switch negative / positive by * key) and press Apply key.Display/adj/set range-2 to 2	Default value	0	
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Use case When an image failure occurs Adj/set/operate method Enter the setting value (switch negative / positive by * key) and press Apply key. Display/adj/set range -2 to 2	Title	Adjustment of setting value of Fixing Roller surface temperature	
Adj/set/operate method Enter the setting value (switch negative / positive by * key) and press Apply key. Display/adj/set range -2 to 2	Details	To adjust the setting value of the surface temperature of the Fixing Roller.	
Display/adj/set range -2 to 2	Use case	When an image failure occurs	
	Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.	
Default value 0	Display/adj/set range	-2 to 2	
	Default value	0	

SCNR

COPIER > ADJUST > SCNR	
ltem	Description
SUB-S-Y0	
Title	Adjustment of emitting position 1 (Y) in the vertical scanning direction
Details	To adjust the Y-color emitting position 1 in the vertical scanning position.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-1023 to 1023
Default value	0
SUB-S-M0	
Title	Adjustment of emitting position 1 (M) in the vertical scanning direction
Details	To adjust the M-color emitting position 1 in the vertical scanning position.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-1023 to 1023
Default value	0
SUB-S-C0	
Title	Adjustment of emitting position 1 (C) in the vertical scanning direction
Details	To adjust the C-color emitting position 1 in the vertical scanning position.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-1023 to 1023
Default value	0
SUB-S-K0	
Title	Adjustment of emitting position 1 (Bk) in the vertical scanning direction
Details	To adjust the Bk-color emitting position 1 in the vertical scanning position.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-1023 to 1023
Default value	0
SUB-S-Y1	
Title	Adjustment of emitting position 2 (Y) in the vertical scanning direction
Details	To adjust the Y-color emitting position 2 in the vertical scanning position.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-1023 to 1023
Default value	0
SUB-S-M1	
Title	Adjustment of emitting position 2 (M) in the vertical scanning direction
Details	To adjust the M-color emitting position 2 in the vertical scanning position.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-1023 to 1023
Default value	0
SUB-S-C1	
Title	Adjustment of emitting position 2 (C) in the vertical scanning direction
Details	To adjust the C-color emitting position 2 in the vertical scanning position.

COPIER > ADJUST > SCNR	
Item	Description
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-1023 to 1023
Default value	0
SUB-S-K1	
Title	Adjustment of emitting position 2 (Bk) in the vertical scanning direction
Details	To adjust the Bk-color emitting position 2 in the vertical scanning position.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-1023 to 1023
Default value	0
SUB-S-Y2	
Title	Adjustment of emitting position 3 (Y) in the vertical scanning direction
Details	To adjust the Y-color emitting position 3 in the vertical scanning position.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-1023 to 1023
Default value	0
SUB-S-M2	
Title	Adjustment of emitting position 3 (M) in the vertical scanning direction
Details	To adjust the M-color emitting position 3 in the vertical scanning position.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-1023 to 1023
Default value	0
SUB-S-C2	
Title	Adjustment of emitting position 3 (C) in the vertical scanning direction
Details	To adjust the C-color emitting position 3 in the vertical scanning position.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-1023 to 1023
Default value	0
SUB-S-K2	
Title	Adjustment of emitting position 3 (Bk) in the vertical scanning direction
Details	To adjust the Bk-color emitting position 3 in the vertical scanning position.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-1023 to 1023
Default value	0
MAI-S-Y0	
Title	Adjustment of scan time 1 (Y) in the horizontal scanning direction
Details	To adjust the Y-color scan time 1 in the horizontal scanning direction.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-511 to 511
Default value	0
MAI-S-M0	

COPIER > ADJUST > SCNR	
Item	Description
Title	Adjustment of scan time 1 (M) in the horizontal scanning direction
Details	To adjust the M-color scan time 1 in the horizontal scanning direction.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-511 to 511
Default value	0
MAI-S-C0	
Title	Adjustment of scan time 1 (C) in the horizontal scanning direction
Details	To adjust the C-color scan time 1 in the horizontal scanning direction.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-511 to 511
Default value	0
MAI-S-K0	
Title	Adjustment of scan time 1 (Bk) in the horizontal scanning direction
Details	To adjust the Bk-color scan time 1 in the horizontal scanning direction.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-511 to 511
Default value	0
MAI-S-Y1	
Title	Adjustment of scan time 2 (Y) in the horizontal scanning direction
Details	To adjust the Y-color scan time 2 in the horizontal scanning direction.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-511 to 511
Default value	0
MAI-S-M1	
Title	Adjustment of scan time 2 (M) in the horizontal scanning direction
Details	To adjust the M-color scan time 2 in the horizontal scanning direction.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-511 to 511
Default value	0
MAI-S-C1	
Title	Adjustment of scan time 2 (C) in the horizontal scanning direction
Details	To adjust the C-color scan time 2 in the horizontal scanning direction.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-511 to 511
Default value	0
MAI-S-K1	
Title	Adjustment of scan time 2 (Bk) in the horizontal scanning direction
Details	To adjust the Bk-color scan time 2 in the horizontal scanning direction.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-511 to 511
Lispia, adjiset lange	

COPIER > ADJUST > SCNR	
ltem	Description
Default value	0
MAI-S-Y2	
Title	Adjustment of scan time 3 (Y) in the horizontal scanning direction
Details	To adjust the Y-color scan time 3 in the horizontal scanning direction.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-127 to 127
Default value	0
MAI-S-M2	
Title	Adjustment of scan time 3 (M) in the horizontal scanning direction
Details	To adjust the M-color scan time 3 in the horizontal scanning direction.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-127 to 127
Default value	0
MAI-S-C2	
Title	Adjustment of scan time 3 (C) in the horizontal scanning direction
Details	To adjust the C-color scan time 3 in the horizontal scanning direction.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-127 to 127
Default value	0
MAI-S-K2	
Title	Adjustment of scan time 3 (Bk) in the horizontal scanning direction
Details	To adjust the Bk-color scan time 3 in the horizontal scanning direction.
Use case	When replacing the Laser Scanner Unit, enter the value written on the label included in the package of the Laser Scanner Unit
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-127 to 127
Default value	0

PANEL

COPIER > ADJUST > PANEL	
Item	Description
ТОИСНСНК	
Title	Correction of coordinate position of Touch Panel
Details	To correct the coordinate on the Touch Panel.
Use case	When a problem occurs to the coordinate position in such a way that a position different from the one that was touched reacts.
Adj/set/operate method	Touch the "+ (plus)" mark displayed on the Touch Panel with something with a sharp tip such as a pen.
TOUCHCHK-R	
Title	Flag to check whether the correction of coordinates on the Touch Panel was properly executed
Details	To check whether the correction of coordinates on the Touch Panel was properly executed. 1 is displayed when the correction of coordinates is properly executed. 0 is displayed when it fails.
Use case	When executing the correction of coordinates after replacing the Touch Panel with a new one
Display/adj/set range	0 to 1 0: Not executed 1: Executed
Default value	0



COPIER > FUNCTION > CCD	
Item	Description
DF-WLVL1	
Title	White level adj in book mode: color
Details	To adjust the white level for copyboard scanning automatically by setting the paper which is usually used by the user on the Copyboard Glass.
Use case	 When replacing the Copyboard Glass When replacing the CIS Unit When replacing the ADF / Reader Unit
Adj/set/operate method	 Set paper on the Copyboard Glass. Select the item, and then press Yes key.
Caution	Be sure to execute DF-WLVL2 in a row.
Related service mode	COPIER > ADJUST > CCD > DFTAR-R COPIER > ADJUST > CCD > DFTAR-G COPIER > ADJUST > CCD > DFTAR-B COPIER > FUNCTION > CCD > DF-WLVL2
DF-WLVL2	
Title	White level adj in ADF mode: color
Details	To adjust the white level for ADF scanning automatically by setting the paper which is usually used by the user on the ADF.
Use case	 When replacing the Copyboard Glass When replacing the CIS Unit When replacing the ADF / Reader Unit
Adj/set/operate method	 Set paper on the ADF. Select the item, and then press Yes key.
Caution	Be sure to execute this item after DF-WLVL1.
Related service mode	COPIER > ADJUST > CCD > DFTAR-R COPIER > ADJUST > CCD > DFTAR-G COPIER > ADJUST > CCD > DFTAR-B COPIER > FUNCTION > CCD > DF-WLVL1
DF-WLVL3	1
Title	White level adj in book mode (B&W)
Details	To adjust the white level for copyboard scanning automatically by setting the paper which is usually used by the user on the Copyboard Glass.
Use case	 When replacing the Copyboard Glass When replacing the CIS Unit When replacing the ADF / Reader Unit
Adj/set/operate method	 Set paper on the Copyboard Glass. Select the item, and then press Yes key.
Caution	Be sure to execute DF-WLVL4 in a row.
Related service mode	COPIER > ADJUST > CCD > DFTAR-BW COPIER > FUNCTION > CCD > DF-WLVL4
DF-WLVL4	
Title	White level adj in ADF mode (B&W)
Details	To adjust the white level for ADF scanning automatically by setting the paper which is usually used by the user on the DADF.
Use case	 When replacing the Copyboard Glass When replacing the CIS Unit When replacing the ADF / Reader Unit
Adj/set/operate method	 Set paper on the ADF. Select the item, and then press Yes key.
Caution	Be sure to execute this item after DF-WLVL3.
Related service mode	COPIER > ADJUST > CCD > DFTAR-BW COPIER > FUNCTION > CCD > DF-WLVL3
CL-AGC	

COPIER > FUNCTION > CCD	
ltem	Description
Title	CIS intensity adjustment in ADF (color)
Details	To adjust the black/white level of the CIS for ADF scanning automatically by setting the paper which is usually used by the user on the ADF. (For color scanning)
Use case	When replacing the Reader UnitWhen replacing the CIS Unit
Adj/set/operate method	 Set paper on the ADF. Select the item, and then press Yes key.
Related service mode	COPIER > FUNCTION > CCD > BW-AGC
BW-AGC	
Title	CIS intensity adjustment in ADF (B&W)
Details	To adjust the black/white level of the CIS for ADF scanning automatically by setting the paper which is usually used by the user on the ADF. (For B&W scanning) Setting values of the following service modes are automatically calculated: COPIER > ADJUST > CCD > OFST-BW0 COPIER > ADJUST > CCD > OFST-BW1 COPIER > ADJUST > CCD > OFST-BW2 COPIER > ADJUST > CCD > OFST-BW2 COPIER > ADJUST > CCD > GAIN-BW0 COPIER > ADJUST > CCD > LED-BW-R COPIER > ADJUST > CCD > LED-BW-G COPIER > ADJUST > CCD > LED-BW-B
Use case	When replacing the Reader UnitWhen replacing the CIS Unit
Related service mode	COPIER > FUNCTION > CCD > CL-AGC COPIER > ADJUST > CCD > OFST-BW0 COPIER > ADJUST > CCD > OFST-BW1 COPIER > ADJUST > CCD > OFST-BW2 COPIER > ADJUST > CCD > GAIN-BW0 COPIER > ADJUST > CCD > LED-BW-R COPIER > ADJUST > CCD > LED-BW-G COPIER > ADJUST > CCD > LED-BW-B

CLEAR

COPIER > FUNCTION > CLEAR		
Item	Description	
R-CON		
Title	Initialization of Reader / ADF	
Details	To initialize the factory adjustment values of the Reader / ADF.	
Use case	When clearing RAM data of the Main Controller PCB	
Adj/set/operate method	Press Yes key.	
SRVC-DAT		
Title	Clearing of service mode setting values	
Details	To clear the service mode setting values. The user mode setting values are not cleared. The factory adjustment values of the Reader / ADF are not initialized.	
Adj/set/operate method	 Press Yes key. Turn OFF / ON the main power switch. 	
COUNTER		
Title	Clearing of service counter	
Details	To clear the counter by maintenance / part/mode. The numerator printed on a system dump list becomes 0.	
Adj/set/operate method	 Press Yes key. Turn OFF / ON the main power switch. 	
HIST		
Title	Clear of logs	
Details	To clear the communication management / print / jam / error log.	
Use case	When clearing logs	

COPIER > FUNCTION > CLEAR	
Item	Description
Adj/set/operate method	1. Press Yes key.
	2. Turn OFF / ON the main power switch.
CARD	Clearing of Card Deader connection info
Details	Clearing of Card Reader connection info To clear the information on connection of the Copy Card Reader-F1.
	The data related to the card ID (department) is cleared, and the ID and password of the system adminis- trator are initialized.
Use case	When removing the Card Reader-F1
Adj/set/operate method	 When removing the Card Reader-F1 1. Disable the department ID management. 2. Press Yes key. 3. In COPIER > FUNCTION > CLEAR > CARD, clear the information on connection of the Copy Card Reader-F1. 4. Execute COPIER > FUNCTION > CLEAR > E719-CLR. 5. Turn OFF the main power. 6. Remove the Card Reader-F1. 7. Turn ON the main power.
Caution	 Execute this item after disabling the department ID management via LUI or RUI Then, clear the information on connection of the Copy Card Reader-F1 and execute E719-CLR (clear E71)
Related service mode	COPIER > FUNCTION > CLEAR > E719-CLR
E719-CLR	
Title	Clearing of E719 error
Details	To clear E719 error (communication error with the Card Reader).
Use case	When removing the Card Reader-F1
Adj/set/operate method	 When removing the Card Reader-F1 1. Disable the department ID management. 2. Press Yes key. 3. In COPIER > FUNCTION > CLEAR > CARD, clear the information on connection of the Copy Card Reader-F1. 4. Execute COPIER > FUNCTION > CLEAR > E719-CLR. 5. Turn OFF the main power. 6. Remove the Card Reader-F1. 7. Turn ON the main power.
Related service mode	COPIER > FUNCTION > CLEAR > CARD
ALL	
Title	Clearing of setting information
Details	Clear/initialize the following setting information according to the location set in COPIER > OPTION > BODY > LOCALE, SIZE-LC: • User mode setting values • Service mode setting values (excluding service counter) • ID and password of the system administrator • Communication management / printing / jam / error history • E719-CLR (counter meter-installed models only) The following is not initialized: • Service counter • Factory adjustment values of the Reader / ADF
Use case	At installation
Adj/set/operate method	 Press Yes key. Turn OFF / ON the main power switch.
Related service mode	COPIER > OPTION > BODY > LOCALE, SIZE-LC
ERDS-DAT	
Title	Initialization of Embedded-RDS setting value
Details	To initialize the Embedded-RDS setting values. ON / OFF of Embedded-RDS, UGW (remote monitoring service system) port number, and communication error log set in service mode are initialized.
Use case	When upgrading the version of Bootable in the Embedded-RDS environment
Adj/set/operate method	Press Yes key.
Caution	Use of the SRAM in Embedded-RDS differs depending on the Bootable version. Therefore, unless initialization is executed at the time of version upgrade, data inconsistency occurs.

COPIER > FUNCTION > CLEAR	
Item	Description
Related service mode	COPIER > FUNCTION > INSTALL > E-RDS, 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

■ MISC-R

COPIER > FUNCTION > MISC-R		
Item	Description	
SCANLAMP	SCANLAMP	
Title	Lighting check of CIS Unit LED	
Details	To light up CIS Unit LED for 3 seconds. It lights up in the order of R, G, B, R, G and B.	
Use case	When replacing the CIS Unit LED	
Adj/set/operate method	Select the item, and then press Yes key.	
Display/adj/set range	0 to 1	
Default value	0	
Required time	3 seconds	
SCAN-ON		
Title	Execution of copyboard reading	
Details	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.	
Display/adj/set range	0 to 1	
Default value	0	

■ MISC-P

COPIER > FUNCTION > MISC-P			
Item	Description		
SRVC-DAT *			
Title	Output of system data list/system dump list		
Details	To execute report output of the system data list and the system dump list. 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.		
SYS-DAT *			
Title	Output of system data list		
Details	To execute report output of the system data list. The service software switches and parameters used in FAX function are output.		
Adj/set/operate method	Select the item, and then press Yes key.		
SYS-DMP *	SYS-DMP *		
Title	Output of system dump list		
Details	To execute report output of the 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. are output.		
Adj/set/operate method	Select the item, and then press Yes key.		
CNTR			
Title	Output of counter report		
Details	To output the counter 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			
Title	Output of error log report		

COPIER > FUNCTION > MISC-P	
Item	Description
Details	To output the error log report.
Adj/set/operate method	Select the item, and then press Yes key.
SPEC	
Title	Output of spec report
Details	To output the spec 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	
Title	Output of Embedded-RDS log
Details	To execute report output of the log relating to Embedded-RDS. The date, time, code, and details (up to 130 characters) 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 consum- ables to UGW via SOAP protocol UGW (Universal Gate Way): Remote monitoring service system
KEY-HIST *	
Title	Output of key log report
Details	To output the key log report. The key log up to the time the FAX transmission task was input (the [START] key was pressed) is output.
Adj/set/operate method	Select the item, and then press Yes key.

*: Fax model only

■ SYSTEM

COPIER > FUNCTION > SYSTEM			
Item	Description		
PANEL-UP	PANEL-UP		
Title	Download from USB memory (PANEL)		
Details	To perform downloading when PANEL exists in the root directory of the USB memory.		
Use case	At upgrade		
Adj/set/operate method	 Install the USB memory. Select the item, and then select Yes. Turn OFF and the ON the main power. 		
Caution	Do not turn OFF / ON the power before "Executing" disappears.		
Display/adj/set range	Yes / No		
Related service mode	COPIER > FUNCTION > SYSTEM > DOWNLOAD, BKUP-UP		
LOGWRITE			
Title	Writing sublog to USB memory		
Details	 To write sublog that includes the following information to the USB memory. Job list (job name, user name, address book) Communications log (address book, user name) Job log (user name, job name) 		
Use case	When analyzing the cause of a problem		
Adj/set/operate method	 Install the USB memory. Select the item, and then select Yes. Turn OFF and the ON the main power. 		
Caution	Do not turn OFF / ON the power before "Executing" disappears.		
Display/adj/set range	Yes / No		
IMPORT			
Title	Reading of service mode setting value from USB memory		
Details	To write the service mode setting values (excluding those related to Reader / ADF) to the USB memory.		
Use case	After replacing the Main Controller PCB		

COPIER > FUNCTION > SYSTEM		
Item	Description	
Adj/set/operate method	 Install the USB memory. Select the item, and then press Yes. Turn OFF and the ON the main power. 	
Caution	Do not turn OFF / ON the power before "Executing" disappears.	
EXPORT		
Title	Writing of service mode setting value to USB memory	
Details	To write the service mode setting values (excluding those related to Reader/ADF) to the USB memory.	
Use case	When replacing the Main Controller PCB as a measure against failures	
Adj/set/operate method	 Install the USB memory. Select the item, and then press Yes. 	
Caution	"Executing" disappears when writing is completed.	

COPIER > FUNCTION > VIFFNC			
ltem	Description		
SMEAR-PV	SMEAR-PV		
Title	Execution of image smear prevention mode		
Details	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. In this case, execute the image smear prevention mode (rotate the drum for 60 seconds after toner ejection of all colors).		
Use case	When thin line or fine halftone becomes lighter		
Adj/set/operate method	Enter the value, and then press Apply key.		
Display/adj/set range	0 to 1 0 : OFF 1 : ON		
Default value	0		
FEED-IMP			
Title	Execution of pickup jam reduction mode		
Details	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 this case, extend the pickup interval. Jam occurrence can be prevented, but productivity decreases.		
Use case	When pickup jam occurs with paper with which double feed is more likely to occur		
Adj/set/operate method	Enter the 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		
ICL-IMP			
Title	Execution of ITB cleaning failure prevention 1		
Details	To alleviate cleaning failure by increasing the current (bias) applied to the Cleaning Blade and Primary Trans- fer Roller.		
Use case	When an image that was on 2 sheets before appears lightly depending on paper type and print pattern (especially high printing ratio) In such a case, image failure can be prevented by setting this mode.		
Adj/set/operate method	Enter the value, and then press Apply key.		
Display/adj/set range	0 to 1 0 : OFF 1 : ON		
Default value	0		
Related service mode	COPIER > FUNCTION > SPLMAN > SPL50288		
FD-R-CHG			
Title	Execution of Pickup Roller replacement mode		
Details	To move the Pickup Roller to the replacement position by executing this mode.		
Use case	When replacing the Pickup Roller		
Adj/set/operate method	Select the item, and then press Yes key.		
STOR-DCN			
Title	Backup of Engine Controller PCB NVRAM		

COPIER > FUNCTION > VIFFNC		
Item	Description	
Details	To back up the setting data 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 data changes by manual or automatic adjustment. When backup data which has been left for a long period of time is restored, it is overwritten with the old setting data and the new data is deleted.	
Related service mode	COPIER > FUNCTION > SYSTEM > RSTR-DCN	
RSTR-DCN	RSTR-DCN	
Title	Restoration of Engine Controller PCB NVRAM	
Details	To restore backup information of the Engine Controller PCB NVRAM stored in the Main Controller PCB NVRAM to the Engine Controller PCB NVRAM.	
Use case	After replacing the Engine Controller PCB	
Adj/set/operate method	 Select the item, and then press Yes key. Turn OFF / ON the main power switch. 	
Caution	During operation, the setting data changes by manual or automatic adjustment. When backup data which has been left for a long period of time is restored, it is overwritten with the old setting data and the new data is deleted.	
Related service mode	COPIER > FUNCTION > SYSTEM > STOR-DCN	

SPLMAN

COPIER > FUNCTION > SPLMAN	
Item	Description
SPL14159	
Title	Fixing of USB device ID
Details	To fix the USB device ID to "00000000000". Driver for each machine is installed to a PC. However, by fixing the serial number, the PC considers that any connected machine to be the same machine; thus, there will be no need to install the drivers many times.
Adj/set/operate method	 Enter the value, and then press Apply key. Turn OFF / ON the main power switch.
Display/adj/set range	0 to 1 0 : OFF 1 : ON
Default value	0
SPL27767	
Title	Setting of highly-resistive paper
Details	To increase the secondary transfer bias.
Use case	When a trace which looks like toner scattering occurs around the text or print pattern depending on the paper type or environment (especially in a low humidity environment)
Adj/set/operate method	Select the item, and then press Apply key.
Display/adj/set range	0 to 1 0 : OFF 1 : ON
Default value	0
Related service mode	COPIER > FUNCTION > SPL26535
SPL23846	
Title	Setting of moist paper
Details	To increase the secondary transfer bias.
Use case	When color text or pattern using 2 or more colors of toner becomes lighter depending on the paper type or environment (especially in a high humidity environment)
Adj/set/operate method	Select the item, and then press Apply key.
Display/adj/set range	0 to 1 0 : OFF 1 : ON
Default value	0
SPL26433	
Title	Execution of drum idle rotation mode

	COPIER > FUNCTION > SPLMAN
Item	Description
Details	To execute idle rotation of the drum.
Use case	When thin, sharp horizontal lines appear in halftone images after a long downtime
Adj/set/operate method	Select the item, and then press Apply key.
Display/adj/set range	0 to 1
	0 : OFF 1 : ON
Default value	0
SPL14682	
Title	Execution of image fogging prevention mode 1
Details	To change the developing bias.
Use case	When toner is lightly transferred to the white area in case of printing an image with large white area using glossy paper
Adj/set/operate method	Select the item, and then press Apply key.
Display/adj/set range	0 to 1 0 : OFF 1 : ON
Default value	0
Related service mode	COPIER > FUNCTION > VIFFNC > FOG-PV
SPL83279	
Title	Setting of Chinese paper
Details	To change the transfer bias.
Use case	When a trace which looks like toner scattering occurs around the text or print pattern in case of using Chinese paper
Adj/set/operate method	Select the item, and then press Apply key.
Display/adj/set range	0 to 1 0 : OFF 1 : ON
Default value	0
SPL50288	
Title	Execution of ITB cleaning failure prevention 2
Details	To alleviate cleaning failure by increasing the current (bias) applied to the Cleaning Blade and Primary Transfer Roller.
Use case	When an image that was on 2 sheets before appears lightly depending on paper type and print pattern (especially high printing ratio) When the trailing edge of paper is soiled In such a case, image failure can be prevented by setting this mode.
Adj/set/operate method	Select the item, and then press Apply key.
Display/adj/set range	0 to 1 0 : OFF 1 : ON
Default value	0
SPL37510	
Title	ON / OFF of ITB cleaning at paper size mismatch
Details	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.
Use case	When paper size is mismatched
Adj/set/operate method	Enter the value, and then press Apply key.
Caution	Be sure to get approval from the user by telling that toner soiling may occur to improve productivity.
Display/adj/set range	0 to 1 0 : OFF 1 : ON
Default value	0
SPL65677	
Title	Increase of paper leading edge margin

Item Description Details 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. The value obtained by adding this value and SPL68676 (decrease of the margin) is 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 Display/adj/set range 0 to 20 Unit 0.1 mm Default value 0 Related service mode COPIER > FUNCTION > SPLMAN > SPL68676 SPL68676 Title Decrease of paper leading edge margin Details To decrease the margin on the leading edge of paper. As the value is incremented by is decreased by 0.1 mm. The value obtained by adding this value and SPL65677 (increase of the margin) is a decreased by 0.1 mm. The value obtained by adding this value and SPL65677 (increase of the margin) is a decreased by 0.1 mm. Display/adj/set range 0 to 20 Unit 0.1 mm Default value 0 Related service mode COPIER > FUNCTION > SPLMAN > SPL65677 SPL68677 Title Display/adj/set range 0 to 20 Unit 0.1 mm Default value 0 <	
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Default value 0 Related service mode COPIER > FUNCTION > SPLMAN > SPL65677 SPL68677 Increase of paper right and left margins Title Increase of paper right and left margins Details To increase the margin on the right and left of paper. As the value is incremented by 1, the margin is increased by 0.1 mm. The value obtained by adding this value and SPL25607 (decrease of the margin) is 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	
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2. Turn OFF/ON the main power switch. Display/adj/set range 0 to 20	applied.
Unit 0.1 mm	
Default value 0	
Related service mode COPIER > FUNCTION > SPLMAN > SPL25607	
SPL25607	
Title Decrease of paper right and left margins	
DetailsTo decrease the margin on the right and left of paper.As the value is incremented by 1, the margin is decreased by 0.1 mm. The value obtained by adding this value and SPL68677 (increase of the margin) is a	applied.
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 > SPL68677	
SPL93822	
Title Setting of department ID count all clear	
Details To set whether to disable clearing of all department ID counts.	
Adj/set/operate method 1. Enter the 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	's site.
Display/adj/set range 0 to 1 0: Disabled 1: Enabled	
Default value 0	
Related service mode COPIER > FUNCTION > SPLMAN > SPL78788	
SPL78788	
Title Setting of department ID count clear	
Details To set whether to disable clearing of department ID count.	

COPIER > FUNCTION > SPLMAN	
ltem	Description
Adj/set/operate method	 Enter the 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	
Title	Reset of calibration
Details	When the user allows printing at absence of toner, calibration using toner is disabled. As a remedy, calibration reset is executed by this switch.
Use case	When the user allows printing after absence of toner is displayed.
Adj/set/operate method	Select the item, and then press Yes key.
Display/adj/set range	0 to 1 0 : OFF 1 : ON
Default value	0
SPL15176	
Title	Extension of detection on absence of toner
Details	Error occurs when the drum running distance reaches a certain point in the case of toner absence. Turning this switch ON delays the occurrence of error (threshold value is changed).
Use case	When delaying the display of "absence of toner" message
Adj/set/operate method	 Enter the setting value, and then press Apply key. Turn OFF/ON the main power switch.
Display/adj/set range	0 to 1 0 : OFF 1 : ON
Default value	0
SPL89821	
Title	Shop demonstration mode
Details	To display image data on color UI repeatedly to appeal the product features to potential users.
Use case	When appealing the product features to users at shops
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
Default value	0
Supplement/memo	When the setting value is 1 at startup, the shop demonstration mode is enabled.
SPL58122	
Title	Wrinkle prevention mode
Details	To prevent envelope from getting wrinkles by keeping the speed of the Fixing Motor constant and feeding an envelope with a little pulling tension applied to it. When this setting is set to 1, "Wrinkle prevention mode" for alleviating the wrinkles on the envelope is turned ON.
Use case	When wrinkle occurs in envelope
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
Default value	0
SPL71100 *	
Title	Setting of the duty of Off-hook PCB
Details	This is the mode to make handsets of particular manufacturers to ring when fax reception mode is set to "Fax / Tel (Auto Switch)".
Use case	When fax reception mode is set to FAX/TEL switching
Adj/set/operate method	 Enter the setting value, and then press Apply key. Turn OFF/ON the main power switch.
Display/adj/set range	1 to 99

Item Default value	Description
Default value	
Dolault Value	50
SPL00171	
Title	To change the maximum auto sleep shift time.
Details	To change the maximum value of auto sleep shift time in Settings/Registration > Timer Settings > Auto Sleep Time.
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	From 0 (Default for Europe) to 60 min From 1 (Default for locations other than Europe) to Maximum value for each model
Default value	1
SPL80100	
Title	Mask setting at copyboard scanning
Details	To cancel the image mask occurs on the left edge at copyboard scanning.
Use case	Upon request from user who does not satisfy with the mask on the left edge
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: Mask value according to the specifications of each job 1: No mask (0 mm)
Default value	0
SPL27354	
Title	PC-less update, RMDS environment setting
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: Production environment / Release environment 1: Production environment / Staging environment 2: Maintenance environment 1 / Release environment 3: Maintenance environment 1 / Staging environment 4: Maintenance environment 2 / Release environment 5: Maintenance environment 2 / Staging environment
Default value	0
SPL84194	
Title	ON / OFF of E-RDS function
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
Default value	0
SPL32620	
Title	Switching to enable / disable PC-less update
Adj/set/operate method	 Enter the setting value, and then press Apply key. Turn OFF/ON the main power switch.
Details	To switch whether to enable the PC-less update function.
Display/adj/set range	0 to 1 0 : Disabled 1 : Enabled (default)
Default value	1
SPL60061	
Title	Switching to display the connection destination URL setting of GoogleCloudPrint on the remote UI
Details	To display the connection destination URL setting of GoogleCloudPrint on the remote UI.
Adj/set/operate method	 Enter the setting value, and then press Apply key. Turn OFF/ON the main power switch.
Display/adj/set range	0 to 1 0: Do not display 1: Display
Default value	0

INSTALL

COPIER > FUNCTION > INSTALL	
ltem	Description
STRD-POS	
Title	Scan position auto adj in ADF mode
Details	To adjust the ADF scanning position automatically.
Use case	At ADF installation/uninstallation
Adj/set/operate method	 Set a paper for stream reading position adjustment, and then close the ADF. Select the item, and then press Yes key. The operation automatically stops after the adjustment. Write the value displayed by COPIER > ADJUST > ADJ-XY > STRD-POS in the service label.
Caution	Write the adjusted value in the service label.
Related service mode	COPIER > ADJUST > ADJ-XY > STRD-POS
E-RDS	
Title	ON / OFF of Embedded-RDS
Details	To set ON / OFF of Embedded-RDS function.
Use case	When using Embedded-RDS
Adj/set/operate method	 Select the item, and then press Yes 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	0 to 1 0 : OFF 1 : ON
Default value	0
Related service mode	COPIER > FUNCTION > INSTALL > COPIER > FUNCTION > INSTALL > RGW-PORT COPIER > FUNCTION > INSTALL > COM-TEST COPIER > FUNCTION > INSTALL > COM-RSLT COPIER > FUNCTION > INSTALL > COM-LOG
Supplement/memo	Embedded-RDS: Function to send device information such as the device counter, failure, and con- sumables to UGW via SOAP protocol UGW (Universal Gate Way): Remote monitoring service system
RGW-PORT	
Title	Setting of UGW port number when using Embedded-RDS
Details	To set the port number of UGW to be used for Embedded-RDS.
Use case	When using Embedded-RDS
Adj/set/operate method	 Select the item, and then press Yes 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 COPIER > FUNCTION > INSTALL > COM-TEST COPIER > FUNCTION > INSTALL > COM-RSLT COPIER > FUNCTION > INSTALL > COM-LOG
Supplement/memo	Embedded-RDS: Function to send device information such as the device counter, failure, and con- sumables to UGW via SOAP protocol UGW (Universal Gate Way): Remote monitoring service system
COM-TEST	
Title	Execution of Embedded-RDS communication test
Details	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.
Display/adj/set range	0 to 1
Default value	0

COPIER > FUNCTION > INSTALL	
ltem	Description
Related service mode	COPIER > FUNCTION > INSTALL > ERDS COPIER > FUNCTION > INSTALL > RGW-PORT COPIER > FUNCTION > INSTALL > COM-RSLT COPIER > FUNCTION > INSTALL > COM-LOG
Supplement/memo	Embedded-RDS: Function to send device information such as the device counter, failure, and con- sumables to UGW via SOAP protocol UGW (Universal Gate Way): Remote monitoring service system
COM-RSLT	
Title	Embedded-RDS communication test result
Details	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 COPIER > FUNCTION > INSTALL > RGW-PORT COPIER > FUNCTION > INSTALL > COM-TEST COPIER > FUNCTION > INSTALL > COM-LOG
Supplement/memo	Embedded-RDS: Function to send device information such as the device counter, failure, and con- sumables to UGW via SOAP protocol UGW (Universal Gate Way): Remote monitoring service system
COM-LOG	
Title	Embedded-RDS communication error log
Details	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 COPIER > FUNCTION > MISC-P > ERDS-LOG.
Use case	When using Embedded-RDS
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 COPIER > FUNCTION > INSTALL > RGW-PORT COPIER > FUNCTION > INSTALL > COM-TEST COPIER > FUNCTION > INSTALL > COM-RSLT COPIER > FUNCTION > MISC-P > ERDS-LOG
Supplement/memo	Embedded-RDS: Function to send device information such as the device counter, failure, and con- sumables to UGW via SOAP protocol UGW (Universal Gate Way): Remote monitoring service system

BODY

COPIER > OPTION > BODY	
Item	Description
LOCALE	
Title	Setting of location
Details	To set the location. At installation in areas other than Japan, perform the following procedure to match the setting information with that of the location.
Use case	At installationWhen changing the location information
Adj/set/operate method	 Enter the setting value under LOCALE, and then press Apply key. Set the paper size configuration under SIZE-LC. Execute COPIER > FUNCTION > CLEAR > ALL. Turn OFF/ON the main power switch.

COPIER > OPTION > BODY	
Item	Description
Caution	Since COPIER> FUNCTION> CLEAR> ALL is executed when changing the location, the setting informa- tion of user mode, service mode, etc. is initialized. The setting information of this item is 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
Default value	1
Related service mode	COPIER> FUNCTION> CLEAR> ALL COPIER> OPTION> BODY> SIZE-LC
SIZE-LC	
Title	Setting of paper size configuration
Details	To set the paper size configuration. At installation in areas other than Japan, perform the following proce- dure to match the setting information with that of the location.
Use case	At installation Upon user's request
Adj/set/operate method	 Set the location under LOCALE. Set the paper size configuration under SIZE-LC, and then press Apply key. Execute COPIER > FUNCTION > CLEAR > ALL. Turn OFF / ON the main power switch.
Caution	Since COPIER > FUNCTION > CLEAR > ALL is executed when changing the location, the setting infor- mation of user mode, service mode, etc. is initialized. The setting information of this item is 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
NS-CMD5	
Title	Setting of CRAM-MD5 authentication method at SMTP authentication
Details	Restriction of the use of CRAM-MD5 authentication method at SMTP authentication When 1 is set, CRAM-MD5 authentication method is not used.
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 1 0 : Used (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 pro- tocol to be used for e-mail transmission. At the time of e-mail transmission, this protocol executes authen- tication 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	
Title	Setting of plaintext authentication at SMTP authentication
Details	To restrict use of PLAIN / LOGIN authentication, which is plaintext authentication, at the time of SMTP authentication under the environment where the communication packet is not encrypted. When 1 is set, plaintext authentication is not used.
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.

COPIER > OPTION > BODY	
Item	Description
Display/adj/set range	0 to 1 0 : Used (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 pro- tocol to be used for e-mail transmission. At the time of e-mail transmission, this protocol executes authen- tication of the user account and the password between the SMTP server and the user to approve e-mail transmission only when it's authenticated.
NS-LGN	
Title	Setting of LOGIN authentication at SMTP authentication
Details	Restriction of the use of LOGIN authentication method at SMTP authentication When 1 is set, LOGIN authentication method is not used.
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 1 0 : Used (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 pro- tocol to be used for e-mail transmission. At the time of e-mail transmission, this protocol executes authen- tication 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	
Title	Setting of shift to sleep mode
Details	To restrict shift to sleep mode 1/sleep mode 3. When 1 is set, the machine does not shift to sleep mode.
Use case	When sleep failure occurs
Adj/set/operate method	 Enter the setting value, and then press Apply key. Turn OFF / ON the main power switch.
Display/adj/set range	0 to 1 0 : Shift is available. 1 : Shift is not available.
Default value	0
SDTM-DSP	
Title	Setting of automatic shutdown menu display
Details	It is a new function added to support LOT6. To display the auto shutdown menu in the machine supporting LOT6.
Adj/set/operate method	 Enter the setting value, and then press Apply key. Turn OFF / ON the main power switch.
Caution	Even the models not supporting auto shutdown function display the service mode item (In such case, the menu will not be displayed even 1 is set).
Display/adj/set range	0 to 1 0 : Hide the menu 1 : Display the menu
Default value	0
RMT-SW	
Title	ON/OFF of RUI service mode function
Details	To set whether to enable the service mode function that can be used on remote UI.
Adj/set/operate method	 Enter the setting value, and then press Apply key. Turn OFF / ON the main power switch.
Display/adj/set range	0 to 1 0 : OFF 1 : ON
Default value	1
PSWD-SW	
Title	Service mode password level
Details	To change the service mode password level.

COPIER > OPTION > BODY		
Item	Description	
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 2 0: Password is not required 1: Password for service engineer is required 2: Passwords for service engineer and system administrator at user's site are required	
Default value	0	
SM-PSWD		
Title	Password for service engineer	
Details	To set the password for service technician in 8-digit decimal number.	
Adj/set/operate method	 Enter the setting value, and then press Apply key. Turn OFF / ON the main power switch. 	
Display/adj/set range	1 to 99999999	
Default value	1111111	

FNC-SW

COPIER > OPTION > FNC-SW	
Item	Description
CRG-PROC	
Title	Setting of the operation at the end of CRG life
Details	To set the following 3 kinds of operations at the end of CRG life: Not stopped / Stopped once/Completely stopped.
Adj/set/operate method	Enter the setting value, and then press Apply key.
Display/adj/set range	0 to 2 0 : Not stopped (default of B&W machine) 1 : Stopped once (default for color machine) 2 : Completely stopped
Default value	1
CRGLF-K	
Title	Reference value of components other than toner included in the CRG life (for K)
Details	Reference value of the life of the components other than toner (Drum / Developing Assembly / waste toner) included in the life of CRG (for K)
Adj/set/operate method	Enter the setting value, and then press Apply key.
Display/adj/set range	100 to 200
Default value	100
CRGLF-CL	
Title	Reference value of component other than toner included in the CRG life (for CMY)
Details	Reference value of the life of the components other than toner (Drum / Developing Assembly / waste toner) included in the life of CRG (for CMY)
Adj/set/operate method	Enter the setting value, and then press Apply key.
Display/adj/set range	100 to 200
Default value	100

DSPL-SW

COPIER > OPTION > DSPL-SW	
Item	Description
CRGLW-LV	
Title	SW to display / hide the setting menu (user mode) of toner low threshold value
Details	To switch whether to display the menu to set the threshold value in user mode which generates toner low.
Adj/set/operate method	Enter the setting value, and then press Apply key.
Display/adj/set range	0 to 1
Default value	1

IMG-MCON

	COPIER > OPTION > IMG-MCON	
ltem	Description	
TMIC-BK		
Title	ON/OFF of TMIC Bk PASCAL gamma LUT trailing edge correction	
Details	To set ON/OFF of the trailing edge correction of Bk color PASCAL gamma LUT used by TMIC. When 1 is set, the density of the high density area is high. Therefore, while text and thin lines are clear, gradation of photos may become unnatural. When 0 is set, the density of the high density area becomes low. Therefore, while the gradation is im- proved, thin lines may be partly missing or characters 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		
Title	ON/OFF of TMIC Y/M/C PASCAL gamma LUT trailing edge correction	
Details	To set ON/OFF of the trailing edge correction of Y/M/C color PASCAL gamma LUT used by TMIC. When 1 is set, the density of the high density area is high. Therefore, while text and thin lines are clear, the hue of gradation area of photos may change. When 0 is set, the density of the high density area	
	becomes low. Therefore, while the gradation is improved, thin lines may be partly missing or characters may be faded.	
Use case	 When gradation of photos become unnatural When 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.	

USER

COPIER > OPTION > USER	
Item	Description
SMD-EXPT	
Title	Export of service mode
Details	To enable the export of service mode setting values from RUI.
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: Disabled 1: Enabled
Default value	0

COPIER > OPTION > ACC	
Item	Description
WLAN	
Title	Presence/absence of the wireless LAN function
Details	To set whether to enable the wireless LAN function.
Use case	Upon user's request

COPIER > OPTION > ACC	
Item	Description
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: Disabled 1: Enabled
Default value	0 (Model where wireless LAN is provided as an option) 1 (Wireless LAN model)
WLANMODE	
Title	Setting of IEEE802.11n
Details	To set whether to enable IEEE802.11n which is the wireless LAN standard.
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 1 0: Disabled 1: Enabled
Default value	1 (All models)

SERIAL

COPIER > OPTION > SERIAL	
Item	Description
SN-MAIN	
Title	Entry of serial number
Details	To write the serial number of this machine in the Main Controller PCB. When this item is executed, the 8-digit alphanumeric entered in System Settings > Device Information > Location in user mode is 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	 Write down the current data in System Settings > Device Information > Location in user mode. After turning OFF the main power, replace the Main Controller PCB. Enter the serial number (8-digit alphanumeric) in "Location" of step 1. Execute SN-MAIN. After writing, the serial number entered in step 3 is deleted. Turn OFF and the ON the main power. Execute COPIER > FUNCTION > MISC-P> SPEC to output the spec report to check the serial number. 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
Related user mode	System Settings > Device Information> Location

COUNTER

TOTAL

COPIER > COUNTER > TOTAL	
Item	Description
SERVICE1	
Title	Service-purposed total counter 1
Details	To advance the counter when a paper is delivered outside the printer. The counter is advanced regardless of the original size. The counter is not advanced by delivery in service mode.
Display/adj/set range	0 to 99999999
Unit	Number of sheets
Default value	0

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Default value 0	9999999
	per of sheets
Related service mode COPI	
	ER > COUNTER > TOTAL > TTL
RPT-PRT	
Title Report	rt print counter
The c	bunt up when the report print is delivered outside the machine/2-sided printout is stacked. counter is advanced regardless of the original size. The counter is not advanced by blank paper or ery in service mode.
Display/adj/set range 0 to 9	9999999
Unit Numb	per of sheets
Default value 0	
Related service mode COPI	
MD-PRT	ER > COUNTER > TOTAL > TTL

COPIER > COUNTER > TOTAL	
Item	Description
Title	Media print counter
Details	To count up when the media print is delivered outside the machine. The counter is advanced regardless of the original size. The counter is not advanced by blank paper or delivery in service mode.
Display/adj/set range	0 to 99999999
Unit	Number of sheets
Default value	0
Related service mode	COPIER > COUNTER > TOTAL > TTL
SCAN	
Title	Scan counter
Details	To count up the number of scan operations when the scanning operation is complete. The counter is advanced regardless of the original size. The counter is not advanced by delivery in service mode.
Display/adj/set range	0 to 99999999
Unit	Number of times
Default value	0

*: FAX model only

■ PICK-UP

COPIER > COUNTER > PICK-UP	
Item	Description
C1	
Title	Cassette 1 pickup total counter
Details	To count up the number of sheets picked up from the Cassette 1 (standard Pickup Cassette). The counter is advanced regardless of the original size. The counter is advanced by printout in service mode.
Display/adj/set range	0 to 99999999
Unit	Number of sheets
Default value	0
MF	
Title	Multi-purpose Tray pickup total counter
Details	To count up the number of sheets picked up from the Multi-purpose Tray Pickup Unit. The counter is advanced regardless of the original size. The counter is advanced by printout in service mode.
Display/adj/set range	0 to 99999999
Unit	Number of sheets
Default value	0

FEEDER

COPIER > COUNTER > FEEDER	
Item	Description
FEED	
Title	ADF original pickup total counter
Details	To count up the number of originals picked up from the ADF.
	The counter is advanced regardless of the original size.
Use case	When checking the total counter of original pickup by ADF
Display/adj/set range	0 to 99999999
Unit	Number of sheets
Default value	0

JAM

COPIER > COUNTER > JAM	
Item	Description
TOTAL	
Title	Printer total jam counter
Details	To count up the number of total jam occurrences.
Use case	When checking the total jam counter of printer
Display/adj/set range	0 to 99999999
Unit	Number of times
Default value	0
FEEDER	
Title	ADF total jam counter
Details	When checking the total jam counter of ADF
Display/adj/set range	0 to 99999999
Unit	Number of times
Default value	0
MF	
Title	Multi-purpose Pickup Tray jam counter
Details	To count up the number of jam occurrences in the Multi-purpose Tray Pickup Unit. The counter is advanced by paper size mismatch or misprint.
Use case	When checking the jam counter of Multi-purpose Pickup Tray
Display/adj/set range	0 to 99999999
Unit	Number of times
Default value	0
C1	
Title	Cassette 1 pickup jam counter
Details	To count up the number of jam occurrences in the Cassette 1 (standard Pickup Cassette). The counter is advanced by paper size mismatch or misprint.
Display/adj/set range	0 to 99999999
Unit	Number of times
Default value	0

DRBL-2

COPIER > COUNTER > DRBL-2		
ltem	Description	
DF-SP-PD		
Title	Separation Pad parts counter: ADF	
Details	To count up the number of sheets to be fed regardless of 1-sided/2-sided mode. Accumulated counter value	
Use case	When checking the consumption level of parts/replacing the parts	
Adj/set/operate method	To clear the counter value: Select the item, and then enter 0. Press Apply key.	
Caution	Clear the counter value after replacement.	
Display/adj/set range	0 to 99999999	
Unit	Number of sheets	
Default value	0	
DF-SP-RL	DF-SP-RL	
Title	ADF Pickup Roller parts counter	
Details	To count up the number of sheets to be fed regardless of 1-sided/2-sided mode. Accumulated counter value	
Use case	When checking the consumption level of parts/replacing the parts	
Adj/set/operate method	To clear the counter value: Select the item, and then enter 0. Press Apply key.	
Caution	Clear the counter value after replacement.	

8. Service Mode

COPIER > COUNTER > DRBL-2	
ltem	Description
Display/adj/set range	0 to 99999999
Unit	Number of sheets
Default value	0

FEEDER

ADJUST

FEEDER > ADJUST	
ltem	Description
DOCST	
Title	Fine adjustment of VSYNC timing at ADF reading [front side]
Details	To make a fine adjustment of the VSYNC timing when reading the front side of original with ADF. Execute this item when the output image after ADF installation is displaced. When replacing the Main Controller PCB / clearing RAM, enter the value of service label. As the value is incremented by 1, the margin at the leadgin edge of image is reduced by 0.1%.(The image moves in the direction of the leading edge of the sheet.)
Use case	 When installing the ADF When replacing the Main Contoroller 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	-30 to 30
Unit	0.1 mm
Default value	0
LA-SPD	
Title	Fine adjustment of magnification ratio in vertical scanning direction at ADF stream reading [front side]
Details	To make a fine adjustment of the image magnification ratio in vertical scanning direction when stream reading the front side of original with ADF. As the value is incremented by 1, the image is reduced by 0.01% in vertical scanning direction. (The feeding speed increases, and the image is reduced.)
Use case	 When installing the ADF When replacing the Main Controller PCB/ clearing RAM data
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-200 to 200
Unit	0.01%
Default value	0
DOCST-R	
Title	Fine adjustment of trailing edge at ADF reading
Details	To make a fine adjustment of trailing edge when reading original with ADF. Execute this item when the output image after ADF installation is displaced. When replacing the Main Controller PCB / clearing RAM, enter the value of service label. As the value is incremented by 1, the margin at the trailing edge of the image is decreased by 0.1mm. (The image moves in the direction of the trailing edge of the sheet.)
Use case	 When installing the ADF When replacing the Main Controller PCB / clearing RAM data
Adj/set/operate method	Enter the setting value (switch negative / positive by * key) and press Apply key.
Display/adj/set range	-30 to 30
Unit	0.1 mm
Default value	0

FUNCTION

FEEDER > FUNCTION	
Item	Description
MTR-ON	
Title	Operation check of ADF Motor
Details	To start operation check of ADF Motor (M702).
Use case	At operation check

FEEDER > FUNCTION	
Item	Description
Adj/set/operate method	 Select the item, and then press Yes key. It is driven for approximately 5 seconds and is automatically stopped. Press Yes key. The operation check is completed.
Required time	5 secons
FEED-ON	
Title	Operation check of ADF individual feed
Details	To start operation check of the ADF individual feed in the 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

FAX

Lis of SSSW

SW 01 (Switch relating to error and copy) Bit 0 Output of error code for service technician Bit 1 Error memory dump SW 02 (Switch relating to settings for network connection condition) Bit 7 Connect the terminal as F network type 2 SW 03 Bit 7 Connect the terminal as F network type 2 SW 04 (Switch relating to echo prevention) 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 cecho timer Bit 5 Frequency check of CI signal Bit 6 No CNO transmission at the time of manual transmission SW 05 Bit 7 No CED transmission at the time of manual transmission Bit 4 Declaration of out paper Switch relating to settings for reading condition) Bit 4 Declaration of cut paper Switch relating to settings for page timer) Bit 4 Scan width 0: A4, 1: LTR SW 07 to No 1 Not in use Bit 1< Timeout period for 1 page (Rans	SSSW No.	Bit No.	Function
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SW 06 (Switch relating to settings for reading condition) Bit 4 Scan width 0: A4, 1: LTR SW 07 to 11 Not in use SW 12 (Switch relating to settings for page timer) Bit 0 Timeout period for 1 page (transmission) Bit 1 Timeout period for 1 page (transmission) Bit 2 Timeout period for 1 page (Halftone transmission) Bit 3 Timeout period for 1 page (Reception) Bit 4 Timeout period for 1 page (Reception) Bit 5 Timeout period for 1 page SW 13 Bit 2 Execution of mm/inch conversion when sending the received image SW 14 Bit 2 Bit 4 Declaration of inch-configuration resolution SW 16 Not in use SW 17 Bit 1 Bit 0 Detection of carrier disconnection between DCS and TCF			
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SW 07 to 11 Not in use SW 12 (Switch relating to settings for page timer) Bit 0 Timeout period for 1 page (transmission) Bit 1 Timeout period for 1 page (transmission) Bit 2 Timeout period for 1 page (Halftone transmission) Bit 3 Timeout period for 1 page (Halftone transmission) Bit 4 Timeout period for 1 page (Reception) Bit 5 Timeout period for 1 page (Reception) 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 Bit 4 Declaration of inch-configuration resolution 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		· · ·	
SW 12 (Switch relating to settings for page timer) Bit 0 Timeout period for 1 page (transmission) Bit 1 Timeout period for 1 page (transmission) Bit 2 Timeout period for 1 page (Halftone transmission) Bit 3 Timeout period for 1 page (Halftone transmission) Bit 4 Timeout period for 1 page (Reception) Bit 5 Timeout period for 1 page (Reception) Bit 7 Timeout period for 1 page (Reception) 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 version in horizontal and vertical scanning directions or in version in horizontal and vertical scanning directions or in version in horizontal and vertical scanning directions or in version in horizontal and vertical scanning directions or in version in horizontal and vertical scanning directions or in version in horizontal and vertical scanning directions or in version in horizontal and vertical scanning directions or in version in horizontal and vertical scanning directions or in version in horizontal and vertical scanning directions or in version in horizontal and vertical scanning directions or in version in horizontal and vertical scanning directions or in version in horizontal and vertical scanning directions or in version in horizontal and vertical scanning directions or in version in horizontand vertical scanning direction or inch-configuration res	SW 07 to		
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Bit 1 Timeout period for 1 page (transmission) Bit 2 Timeout period for 1 page (Halftone transmission) Bit 3 Timeout period for 1 page (Halftone transmission) Bit 4 Timeout period for 1 page (Reception) Bit 5 Timeout period for 1 page (Reception) Bit 7 Timeout period for 1 page (Reception) 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 Bit 4 Declaration of inch-configuration resolution SW 16 Not in use SW 17 Bit 1 Bit 0 Detection of carrier disconnection between DCS and TCF	SW 12		
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Bit 3 Timeout period for 1 page (Halftone transmission) Bit 4 Timeout period for 1 page (Reception) Bit 5 Timeout period for 1 page (Reception) 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 version of inch-configuration resolution 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		· · ·	
Bit 4 Timeout period for 1 page (Reception) Bit 5 Timeout period for 1 page (Reception) 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 version of inch-configuration resolution 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			
Bit 5 Timeout period for 1 page (Reception) 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 version in horizontal and vertical scanning directions or in version in horizontal and vertical scanning directions or in version of inch-configuration resolution 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		· · ·	
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SW 14 Bit 2 Setting whether to execute inch to mm conversion in horizontal and vertical scanning directions or in version in horizontal and vertical scanning direction of the scanning direction resolution 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		3it 7 Timeout period	for 1 page
scanning direction only Bit 4 Declaration of inch-configuration resolution 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	SW 13	3it 2 Execution of mr	n/inch conversion when sending the received image
SW 16Not in useSW 17Bit 1Range of selection of transmission level of modem (0 : 8 to 15, 1 : 0 to 15)SW 18Bit 0Detection of carrier disconnection between DCS and TCF	SW 14	, e	•
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		3it 4 Declaration of ir	nch-configuration resolution
SW 18 Bit 0 Detection of carrier disconnection between DCS and TCF	SW 16	Not in use	
	SW 17	Bit 1 Range of select	ion of transmission level of modem (0 : 8 to 15, 1 : 0 to 15)
Bit 1 Time to wait for carrier disconnection between DCS and TCF	SW 18	3it 0 Detection of car	rier disconnection between DCS and TCF
		Bit 1 Time to wait for	carrier disconnection between DCS and TCF
Bit 2 Prohibition of communication control for IP network		Bit 2 Prohibition of co	mmunication control for IP network
SW 19 to Not in use 21 Image: State of the state of		Not in use	
SW 22 Bit 3 Prohibition of manual polling operation	SW 22	Bit 3 Prohibition of m	anual polling operation
SW 23 to 24 Not in use		Not in use	
SW 25 (Setting for report display function)	SW 25	(Setting for repo	rt display function)
Bit 0 Prioritize the received abbreviated name to the dialed abbreviated name			
SW 26 to 27 Not in use		Not in use	

SSSW No.	Bit No.	Function	
SW 28	Bit 0	rohibit calling party for V8 procedure	
	Bit 1	hibit called party from V8 procedure	
	Bit 2	ohibit calling party from V8 late-start	
	Bit 3	ohibit called party from V8 late-start	
	Bit 4	rohibit V.34 called party from starting fallback	
	Bit 5	Prohibit V.34 calling party from starting fallback	
SW 29 to		ot in use	
35			

List of MENU

No.	Parameter	Selection
01 to 05	Not in use	
06	Telephone line monitor	0 to 3 0: DIAL 1: SERVICEMAN1 2: SERVICEMAN2 3: OFF
07	Transmission level (ATT)	0 to 15
08	Upper limit of V.34 modulation speed	0 to 5 0: 3429 BAUD 1: 3200 BAUD 2: 3000 BAUD 3: 2800 BAUD 4: 2743 BAUD 5: 2400 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
11 to 20	Not in use	

List of NUM

	Numeric parameter setting mode			
No.	Parameter	Allowable setting range		
01	Not in use			
02	RTN transmission criteria X	1 to 99 %		
03	RTN transmission criteria n	2 to 99 times		
04	RTN transmission criteria m	1 to 99 lines		
05	NCC pause (before ID code)	1 to 60 sec		
06	NCC pause (after ID code)	1 to 60 sec		

Numeric parameter setting mode				
No.	Parameter	Allowable setting range		
07	Spare			
08	STORED_DIAL_MODE wait timer	0 to 65 sec		
09	Not in use			
10	T.30 T0 timer	55 sec principally		
11	T.30 T1 timer (for incoming transmission)	0 to 9999 (France: 3500, Others: 3000)		
12	Maximum incoming lines	0 to 65535 (line)0: without limitation		
13	T.30 EOL timer	500 to 3000 (set to 55 sec by default)		
14	Not in use			
15	Threshold between hooking and on-hook	0 to 999		
16	Lead time to the first response when switching between FAX and TEL	0 to 9		
17	Duration to activate pseudo-RBT cadence	0 to 999		
18	Duration to deactivate pseudo-RBT cadence (short)	0 to 999		
		0 to 999		
		0 to 999		
21	Duration to deactivate OFF Hook cadence (short)	0 to 999		
22	Duration to deactivate OFF Hook cadence (long)	0 to 7		
23 to 24	Not in use			
25	CNG monitor duration while the answering device is activated	0 to 999		
26 to 28	Not in use			
29	Off-hook PCB duty settings(For NAC, setting can be made with SPL71100 in special management mode.)	20 (*10ms)		
30 to 48	Not in use			
49	NSX MODEL ID	0 to 4095		
50	Not in use			
51	Threshold to detect hook	10 to 9999		
52	Not in use			
53	Set DTMF calling counts when receiving FAX remotely	10 to 9999 (default 25)		
54	Set Busy Tone outgoing duration when using handset			
55 to 80	Not in use			

Setting of NCU Parameters

TONE/PULSE

Operation Method

- 1. Setting of Tone Parameters
 - Operate as follows, and change to the parameter setting mode.
 - 1. While "#NCU" is displayed, press "OK" key
 - 2. Press "#TONE" key
 - 3. Press "OK" key

2. Setting of Pulse Parameters

- Operate as follows, and change to the pulse setting mode.
- 1. While "#NCU" is displayed, press "OK" key
- 2. Press "#PULSE" key
- 3. press "OK" key

Item			Function	Setting range
TONE 01; 7		Tone signal sending time (PSTN)	10 to 9999 (msec)	
02;		02;	Minimum pause time (PSTN)	10 to 9999 (msec)
PULSE PULSE FORM				0 to DP(N) 1 to DP(N+1) 2 to DP(10-N)
	PULSE NUM	01;	Not in use	
		02;	Not in use	
		03;	Pulse dial make ratio	10 to 90 (%)



Item			Function	Setting range
PULSE	PULSE NUM	04;	Minimum pause time	10 to 9999 (msec)

DIAL TONE

• 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 signal 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
01; T0 timer		0 to 9999 (x 10 msec)
02;	T1 timer	0 to 9999 (x 10 msec)
03;	T2 timer	0 to 9999 (x 10 msec)
04;	T3 timer	0 to 9999 (x 10 msec)
05;	T4 timer	0 to 9999 (x 10 msec)
06;	Signal detection table	0 to 16
07;	Signal detection level	0 to 7
08;	Number of signal frequency	0 to 9999

2nd DIAL TONE

Not in use

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

BUSY TONE 1

• Bit Switch

Bit No.	Function	1	0
Bit 0	-	-	-

Bit No.	Function	1	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
01;	-	-
02;	T1 timer	0 to 9999 (x 10 msec)
03;	T2 timer	0 to 9999 (x 10 msec)
04;	T3 timer	0 to 9999 (x 10 msec)
05;	T4 timer	0 to 9999 (x 10 msec)
06;	Signal detection table	0 to 16
07;	Signal detection level	0 to 7
08;	Number of signal frequency	0 to 9999

REORDER TONE

• Bit Switch

Bit No.	Function	1	0
Bit 0	-	-	-
Bit 1	-	-	-
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 signal 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
01;	-	-
02;	T1 timer	0 to 9999 (x 10 msec)
03;	T2 timer	0 to 9999 (x 10 msec)
04;	T3 timer	0 to 9999 (x 10 msec)
05;	T4 timer	0 to 9999 (x 10 msec)
06;	Signal detection table	0 to 16
07;	Signal detection level	0 to 7
08;	Number of signal frequency	0 to 9999

■ MULTI

Not in use

AUTO RX

• Numeric value parameter

Parameter No.	Function	Setting range
01;	CI ON time	0 to 9999 (x 10 msec)
02;	CI LONG ON time	0 to 9999 (x 10 msec)
03;	CI OFF time	0 to 9999 (x 10 msec)
04;	CI LONG OFF time	0 to 9999 (x 10 msec)
05;	CI MAX OFF time	0 to 9999 (x 10 msec)
06;	CI WAIT time	0 to 9999 (x 10 msec)
07;	CI frequency	0 to 9999 (cycle)
08;	CI frequency lower limit	0 to 9999 (Hz)
09;	CI frequency upper limit	0 to 9999 (Hz)

CNG DETECT

• Numeric value parameter

Parameter No.	De	scription	Setting range
01;	At F/T switching	CNG MIN ON time	0 to 9999 (x10 msec)
02;		CNG MAX ON time	0 to 9999 (x 10 msec)
03;		-	-
04;		-	-
05;		-	-
06;		-	-
07;	At direct connecting to answering	CNG MIN ON time	0 to 9999 (x 10 msec)
08;	phone	CNG MAX ON time	0 to 9999 (x 10 msec)
09;		Tolerable time of instantaneous interrup- tion	0 to 9999 (x 10 msec)
10;		-	-
11;		Number of detection	0 to 9999 (times)
12;		Hit ratio	0 to 9999 (%)

RKEY

• Numeric value parameter

Parameter No.	Function	Setting range
01;	Connection time of flash	0 to 9999 (x 10 msec)
02;	Connection time of grounding wire	0 to 9999 (x 10 msec)

PBX DIAL TONE 1

Not in use

PBX BUSY TONE

Not in use

TESTMODE

	TESTMODE > PRINT
Item	Description
PG-TYPE	
Title	Setting of PG number
Details	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 6
	 0 : PASCAL correction chart 1 1 : PASCAL correction chart 2 2 : Color chart 3 : Skew correction chart 4 : Rainbow chart (vertical scanning direction) 5 : Rainbow chart (horizontal scanning direction) 6 : Grid Bk
Default value	0
COUNT	
Title	Setting of PG output quantity
Details	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
MODE	
Title	Setting of test print image formation method
Details	To set the image formation method for the test print. If PG-TYPE is 0/1, 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(T-MIC) • 1 : High screen ruling (SCA) • 2 : Low screen ruling (SCB) • 3 : TBIC
Default value	0
THRU	
Title	Setting of image correction table at test print
Details	It is possible to check the density characteristics due to the density correction process when normal gamma LUT is used, and the density characteristics of the engine when the linear gamma LUT is used.
Use case	At trouble analysis
Adj/set/operate method	Enter the setting value, and then press Apply key.
Display/adj/set range	0 to 1 0 : Normal gamma LUT 1 : Through (linear) gamma LUT
Default value	0
Supplement/memo	Gamma LUT: Density gradation characteristic table
NRKE	
Title	ON/OFF of laser scanning transfer process of test print
Details	To perform line transfer process for skew correction of test print engine's laser scanning.
Use case	At trouble analysis
Adj/set/operate method	Enter the setting value, and then press Apply key.

TESTMODE > PRINT		
Item	Description	
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		
Title	ON/OFF of interpolation process at test print	
Details	To set ON/OFF of interpolation process at test print (linked with NSC). 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.	
FEED		
Title	Setting of paper source at test print	
Details	To set the paper source at the time of test print output. If this mode is set when there is no Cassette 2 (option Pickup Cassette), the output is made from Cassette 1 (standard Pickup Cassette).	
Use case	At trouble analysis	
Adj/set/operate method	Enter the setting value, and then press Apply key.	
Display/adj/set range	0 to 4 0 : MP Tray 1 : Cassette1 2 : Cassette2 3 : Cassette3 4 : Cassette4	
Default value	1	
START		
Title	Output of test print	
Details	To output a test print with the PG pattern set in PG-TYPE, MODE, etc.	
Use case	At trouble analysis	
Adj/set/operate method	Press Apply key.	
Display/adj/set range	0 to 1	
Default value	0	



MODEM

FAX model only

TESTMODE > FAX > MODEM	
Item Description	
RELAY-1	
Title	NCU relay test 1
Details	N To test ON/OFF of relay and port switch of NCU. This mode is disabled for an NCU with no relay and port switch.
Use case	When analyzing the cause of a problem
Adj/set/operate method	Enter the setting value, and then press Apply key.
Caution	Be sure to set the value back to 0 after the test.

	TESTMODE > FAX > MODEM
ltem	Description
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	
Title	NCU relay test 2
Details	To test ON/OFF of relay and port switch of NCU. This mode is disabled for an NCU with no relay and port switch.
Use case	When analyzing the cause of a problem
Adj/set/operate method	Enter the setting value, and then press Apply key.
Caution	Be sure to set the value back to 0 after the test.
Display/adj/set range	0 to 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
Default value	0
Related service mode	TESTMODE > FAX > MODEM > RELAY-1
FREQ	
Title	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.
Details	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 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	
Title	G3 signal transmission test
Details	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.

8. Service Mode

1:2:3:4:5:6:7:8:9:Default value0DTMFTXTitleDTMDetailsTo teBy cltransChecAdj/set/operate methodEnter	OFF 300 bps 2400 bps 4800 bps 7200 bps 7200 bps 7200 bps TC7200 bps TC7200 bps 12000 bps 12000 bps 14400 bps It ransmission test Extended to the specified DTMF signal is transmitted. Is whether the specified DTMF signal is transmitted. Is smitted by the DTMF transmission function of the modem. Ext this with the speaker. Ext the setting value, and then press Apply key.
0:1:2:3:4:5:6:7:8:9:Default value0DTMFTXTitleDTMDetailsTo teBy cltransChecAdj/set/operate methodEnter	OFF 300 bps 2400 bps 4800 bps 7200 bps 9600 bps TC7200 bps TC7200 bps 12000 bps 12000 bps 14400 bps Iteransmission test Extended to the specified DTMF signal is transmitted. Is whether the specified DTMF signal is transmitted. Is smitted by the DTMF transmission function of the modem. Ext this with the speaker. Ext the setting value, and then press Apply key.
DTMFTX Title DTM Details To te By cl trans Chec Adj/set/operate method Enter	est whether the specified DTMF signal is transmitted. losing or opening the DC circuit in accordance with the setting value, the specified DTMF signal is smitted by the DTMF transmission function of the modem. ck this with the speaker. er the setting value, and then press Apply key.
Title DTM Details To te By cl trans Chec Adj/set/operate method Enter	est whether the specified DTMF signal is transmitted. losing or opening the DC circuit in accordance with the setting value, the specified DTMF signal is smitted by the DTMF transmission function of the modem. ck this with the speaker. er the setting value, and then press Apply key.
Details To te By cl trans Chec Adj/set/operate method Enter	est whether the specified DTMF signal is transmitted. losing or opening the DC circuit in accordance with the setting value, the specified DTMF signal is smitted by the DTMF transmission function of the modem. ck this with the speaker. er the setting value, and then press Apply key.
Adj/set/operate method Enter	losing or opening the DC circuit in accordance with the setting value, the specified DTMF signal is smitted by the DTMF transmission function of the modem. ck this with the speaker. In the setting value, and then press Apply key.
Caution Be su	
	ure to set the value back to 0 after the test.
1: 2: 3: 4: 5: 6: 7: 8: 9: 10 11	OFF 1 2 3 4 5 6 7 8 9 0:0
Default value 0	
Supplement/memo DTM phon	IF (Dual Tone Multi Frequency): Signal method combining two specific frequencies like a push-tone ne.
V34G3TX	
Title V.34	G3 signal transmission test
By cl trans tion (A set trans	est whether the specified V.34 G3 signal is transmitted. losing or opening the DC circuit in accordance with the setting value, the specific G3 signal pattern is smitted at the specified transmission speed and modulation speed by the G3 signal transmission func- (V.34) of the modem.Check this with the speaker. tting value other than 0 is indicated as a 3-digit integer (1st digit: modulation speed, last 2 digits: smission speed). lue other than the specified numerical value is invalid.
	r the setting value, and then press Apply key.
	ure to set the value back to 0 after the test.

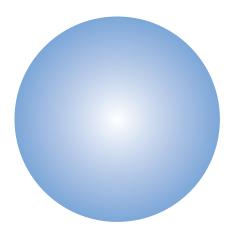
TESTMODE > FAX > MODEM	
ltem	Description
Display/adj/set range	0 to 614
	0: OFF
	First digit (Modulation speed/baud rate)
	1: 2400 baud
	2: 2743 baud
	3: 2800 baud
	4: 3000 baud
	5: 3200 baud
	6: 3429 baud
	Last 2 digits (Transmission speed)
	01: 2400 bps
	02: 4800 bps
	03: 7200 bps
	04: 9600 bps
	05: 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
Default value	0

FACULTY

FAX model only

TESTMODE > FAX > FACULTY									
Item	Description								
G34800TX									
Title	G3 4800 bps signal transmission test								
Details	To test whether the G3 signal is transmitted at 4800 bps. By closing or opening the DC circuit, the specific G3 signal pattern is transmitted at 4800 bps by the G3 signal transmission function. Check this with the speaker.								
Adj/set/operate method	Enter the setting value, and then press Apply key.								
Caution	Be sure to set the value back to 0 after the test.								
Display/adj/set range	0 to 1 0: OFF 1: ON								
Default value	0								
DETECT1									
Title	Ring detection								
Details	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): Con- sole								
DETECT2									
Title	Calling tone detection test 1								

	TESTMODE > FAX > FACULTY								
Item	Description								
Details	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									
Title	Calling tone detection test 2								
Details	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:

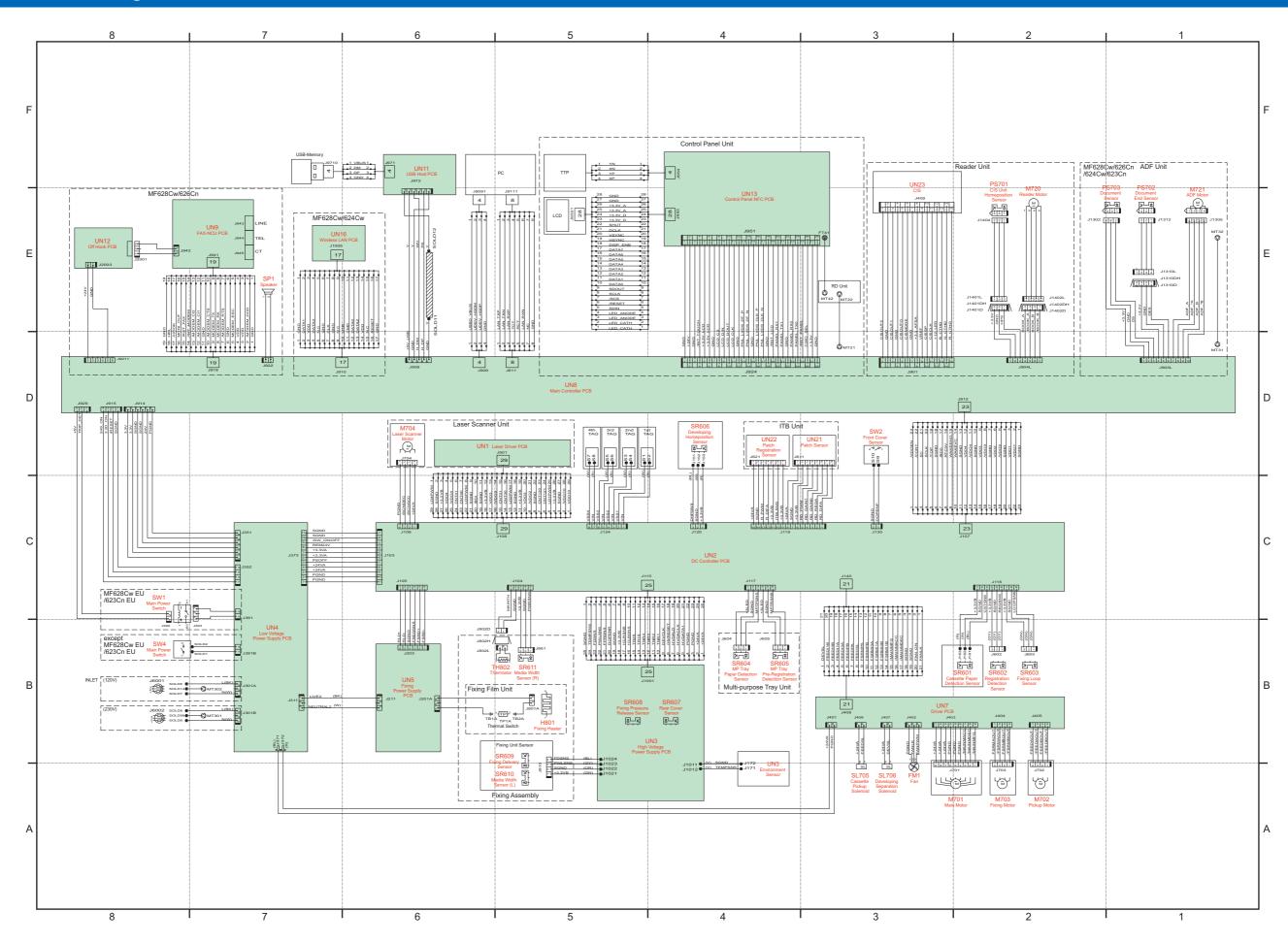
Name of Tool	Parts.No	Use
Digital Multimeter	FY9-2002	Used as a probe extension when making electrical checks.

Solvents and Oils

The table below lists the standard tools required in service works for this product.

No.	Name of Tool	Use	Remarks
1	Alcohol	Cleaning: Plastic Rubber Metal part Oil stain Toner stain	 Keep away from flame Purchase locally
2	Lubricant	Apply to gear	 HY9-0007 (MOLYCOTE EM-50L)
3	Lubricant	Apply to ADF scanning area	 FY9-6020(Oil glass clean- er)

General Circuit Diagram



General Circuit Diagram

Print Sequence

Full-color print on A4 plain paper (3 pages)

		Print co							(second)
	Operation	STBY	INTR		PRNT			LSTR	STBY
L									
1	Fixing temperature control								
2	Main motor (M701)								
3	Pickup motor (M702)		3.5						
4	Fixing motor (M703)		3.9	-			_		
5	Scanner motor (M704)		2.0						
6	Cassette pickup solenoid (SL705)		<u>€.1</u>						
7	Development contact solenoid (SL706)		4.4		_	_			
8	Paper leading edge sensor (SR60	2)	7.6						
9	Fixing/delivery sensor (SR609)		•	21.2					
10	Vertical sync signal (/TOP)		< <u>6.1</u>						
11	Primary charging bias		1.6						
12	Development bias (Y, M, C)		4.4						
13	Development bias (Bk)		4.4						
14	Primary transfer bias (Y)		2.1 4.7						
15	Primary transfer bias (M, C)		6.1						
16	Primary transfer bias (Bk)		0.5		_				
17	Secondary transfer bias		3.7	14.7	→				
18				► ATVC	Print bias	Sheet-to-sheet bias			
19									
20									

Backup Data

[Data	Location	Rep	lace					Delete						Backup by Use	r	В	ackup by Serv	ice
					Mei	nu > System Mai	nagement Set	tings		COPIER	> FUNCTION >	CLEAR							
			Engine Con- troller PCB	Main Con- troller PCB *1	Initializing Address Book	Initializing Key and Cer- tificate	Initializing Menu	System Man- agement Set- tings		SRVC-DAT*3	COUNTER	HIST *4	ALL *5	Yes/No	Method	Location to be stored	Yes/No	Method	Location to be stored
Address Boo	ok	Main Control-	-	Clear	Clear	-	Clear	-	-	-	-	-	Clear	Yes	Remote UI	PC, USB memory	No	-	-
Settings Menu	Preferences	Main Control-	-	Clear	-	-	Clear	-	-	-	-	-	Clear	Yes	Remote UI	PC, USB memory	No	-	-
	Timer Set- tings	Main Control- ler	-	Clear	-	-	Clear	-	-	-	-	-	Clear	Yes	Remote UI	PC, USB memory	No	-	-
	Common Settings	Main Control- ler	-	Clear	-	-	Clear	-	-	-	-	-	Clear	Yes	Remote UI	PC, USB memory	No	-	-
	Copy Set- tings	Main Control- ler	-	Clear	-	-	Clear	-	-	-	-	-	Clear	Yes	Remote UI	PC, USB memory	No	-	-
	Fax Settings	Main Control- ler	-	Clear	-	-	Clear	-	-	-	-	-	Clear	Yes *6	Remote UI	PC, USB memory	No	-	-
	Scan Set- tings	Main Control- ler	-	Clear	-	-	Clear	-	-	-	-	-	Clear	Yes	Remote UI	PC, USB memory	No	-	-
	Memory Me- dia Print Set- tings	Main Control- ler	-	Clear	-	-	Clear		-	-	-	-	Clear	Yes	Remote UI	PC, USB memory	No	-	-
	Printer Set- tings	Main Control- ler	-	Clear	-	-	Clear	-	-	-	-	-	Clear	Yes	Remote UI	PC, USB memory	No	-	-
	System Man- agement Set- tings	Main Control- ler	-	Clear	-	-	Clear	Clear	-	-	-	-	Clear *8	Yes	Remote UI	PC, USB memory	No	-	-
Key and Cer	rtificate	Main Control- ler	-	Clear	-	Clear *7	-	-					Clear	No	-	-	No	-	-
Serial Numb	per	Main Control- ler	-	Clear	-	-	-	-	-	-	-	-	-	No	-	-	No	-	-
Job History		Main Control- ler	-	Clear	-	-	-	-	-	-	-	Clear	Clear	No	-	-	No	-	-
Service mode	Service mode setting values (Reader)	Main Control- ler	-	Clear	-	-	-		Clear	-	-	-	-	No	-	-	No	-	-
	Service mode setting values(Main Controller)	Main Control- ler	-	Clear	-	-	-	-	-	Clear	-	-	Clear	No	-	-	Yes	Service mode *9	USB memory
	Service mode setting values (En- gine Control- ler)	Engine Con- troller	Clear	-	-	-	-	-	-	-	-	-	-	No	-	-	Yes	Service mode *10	Main Control- ler
(Including th	e / part/mode. ne fax-related own in the sys-	Main Control- ler	Clear	Clear	-	-	-	-	-	-	Clear	-	-	No	-	-	No	-	-

*1: Log data such as Mac address, USB serial number, printer-related setting values, scanner-related setting values, user data, and logs are initialized.

*2: The factory adjustment values of the Reader and ADF are initialized.

*3: Service data is cleared. User data is not cleared. The factory adjustment values of the Reader and ADF are not initialized.

*4: The logs (communication management, print, jam, error, and alarm) are cleared.

*5: The user data, service data, logs, and system administrator are initialized. (The system manager ID and password are changed back to the default values.) The factory adjustment values of the Reader and ADF are not initialized. *6: Excluding Fax Setup Guide

*7: When the key and certificate are initialized, TLS authentication of IEEE802.1X and the SSL setting are changed to "OFF".

*8: The system administrator ID and the password are changed back to the default values. ID: 0 / PWD: 0.

*9: FUNCTION > SYSTEM > IMPORT / FUNCTION > SYSTEM > EXPORT

*10: FUNCTION > VIFFNC > STOR-DCN / FUNCTION > VIFFNC > STOR-DCN

Backup Data