

# CS 205c CS 255c



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#### CAUTION

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

It may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for proper disposal.

#### ATTENTION

IL Y A UN RISQUE D'EXPLOSION SI LA BATTERIE EST REMPLACEE PAR UN MODELE DE TYPE INCORRECT. METTRE AU REBUT LES BATTERIES UTILISEES SELON LES INSTRUCTIONS DONNEES.

Il peut être illégal de jeter les batteries dans des eaux d'égout municipales. Vérifiez avec les fonctionnaires municipaux de votre région pour les détails concernant des déchets solides et une mise au rebut appropriée.

#### **Revision history**

Revision	Date	Replaced pages	Remarks
1	17 January 2011	1-3-1, 1-3-2, 1-3-14, 1-3-52, 1-3-92	

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## **КУОСЕКА**

## **Safety precautions**

This booklet provides safety warnings and precautions for our service personnel to ensure the safety of their customers, their machines as well as themselves during maintenance activities. Service personnel are advised to read this booklet carefully to familiarize themselves with the warnings and precautions described here before engaging in maintenance activities.

#### Safety warnings and precautions

Various symbols are used to protect our service personnel and customers from physical danger and to prevent damage to their property. These symbols are described below:

- **ADANGER:** High risk of serious bodily injury or death may result from insufficient attention to or incorrect compliance with warning messages using this symbol.
- **WARNING:** Serious bodily injury or death may result from insufficient attention to or incorrect compliance with warning messages using this symbol.
- **CAUTION:** Bodily injury or damage to property may result from insufficient attention to or incorrect compliance with warning messages using this symbol.

#### Symbols

The triangle ( $\triangle$ ) symbol indicates a warning including danger and caution. The specific point of attention is shown inside the symbol.



General warning.

Warning of risk of electric shock.



Warning of high temperature.

⊘ indicates a prohibited action. The specific prohibition is shown inside the symbol.



General prohibited action.



Disassembly prohibited.

indicates that action is required. The specific action required is shown inside the symbol.



General action required.



Remove the power plug from the wall outlet.



Always ground the copier.

#### **1. Installation Precautions**

#### **WARNING**

- Do not use a power supply with a voltage other than that specified. Avoid multiple connections to one outlet: they may cause fire or electric shock. When using an extension cable, always check that it is adequate for the rated current.
- Connect the ground wire to a suitable grounding point. Not grounding the copier may cause fire or electric shock. Connecting the earth wire to an object not approved for the purpose may cause explosion or electric shock. Never connect the ground cable to any of the following: gas pipes, lightning rods, ground cables for telephone lines and water pipes or faucets not approved by the proper authorities.



#### **A**CAUTION:

•	Do not place the copier on an infirm or angled surface: the copier may tip over, causing injury	$\bigcirc$
•	Do not install the copier in a humid or dusty place. This may cause fire or electric shock	$\bigcirc$
•	Do not install the copier near a radiator, heater, other heat source or near flammable material. This may cause fire.	$\bigcirc$
•	Allow sufficient space around the copier to allow the ventilation grills to keep the machine as cool as possible. Insufficient ventilation may cause heat buildup and poor copying performance	$\bigcirc$
•	Always handle the machine by the correct locations when moving it.	0
•	Always use anti-toppling and locking devices on copiers so equipped. Failure to do this may cause the copier to move unexpectedly or topple, leading to injury.	0
•	Avoid inhaling toner or developer excessively. Protect the eyes. If toner or developer is accidentally ingested, drink a lot of water to dilute it in the stomach and obtain medical attention immediately. If it gets into the eyes, rinse immediately with copious amounts of water and obtain medical attention.	0
•	Advice customers that they must always follow the safety warnings and precautions in the copier's instruction handbook.	0

#### 2. Precautions for Maintenance

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•	Always remove the power plug from the wall outlet before starting machine disassembly	
•	Always follow the procedures for maintenance described in the service manual and other related brochures.	$\bigcirc$
•	Under no circumstances attempt to bypass or disable safety features including safety mechanisms and protective circuits.	$\bigcirc$
•	Always use parts having the correct specifications.	$\bigcirc$
•	Always use the thermostat or thermal fuse specified in the service manual or other related brochure when replacing them. Using a piece of wire, for example, could lead to fire or other serious accident.	0
•	When the service manual or other serious brochure specifies a distance or gap for installation of a part, always use the correct scale and measure carefully.	0
•	Always check that the copier is correctly connected to an outlet with a ground connection	Ð
•	Check that the power cable covering is free of damage. Check that the power plug is dust-free. If it is dirty, clean it to remove the risk of fire or electric shock.	0
•	Never attempt to disassemble the optical unit in machines using lasers. Leaking laser light may damage eyesight.	
•	Handle the charger sections with care. They are charged to high potentials and may cause electric shock if handled improperly.	

### 

•	Wear safe clothing. If wearing loose clothing or accessories such as ties, make sure they are safely secured so they will not be caught in rotating sections.	$\triangle$
	Use utmost caution when working on a powered machine. Keep away from chains and belts	^
•	Handle the fixing section with care to avoid burns as it can be extremely hot.	
•	Check that the fixing unit thermistor, heat and press rollers are clean. Dirt on them can cause abnormally high temperatures.	0

Do not remove the ozone filter, if any, from the copier except for routine replacement	$\bigcirc$
<ul> <li>Do not pull on the AC power cord or connector wires on high-voltage components when removing them; always hold the plug itself.</li> </ul>	$\bigcirc$
• Do not route the power cable where it may be stood on or trapped. If necessary, protect it with a cable cover or other appropriate item.	$\bigcirc$
• Treat the ends of the wire carefully when installing a new charger wire to avoid electric leaks	0
Remove toner completely from electronic components.	
Run wire harnesses carefully so that wires will not be trapped or damaged	0
• After maintenance, always check that all the parts, screws, connectors and wires that were removed, have been refitted correctly. Special attention should be paid to any forgotten connector, trapped wire and missing screws.	0
Check that all the caution labels that should be present on the machine according to the instruction handbook are clean and not peeling. Replace with new ones if necessary.	0
<ul> <li>Handle greases and solvents with care by following the instructions below:</li></ul>	0
Never dispose of toner or toner bottles in fire. Toner may cause sparks when exposed directly to fire in a furnace, etc.	$\bigcirc$
Should smoke be seen coming from the copier, remove the power plug from the wall outlet immedi- ately.	→ 8 €;

#### 3. Miscellaneous

#### **WARNING**

• Never attempt to heat the drum or expose it to any organic solvents such as alcohol, other than the specified refiner; it may generate toxic gas.



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#### Installation Guide

Paper feeder Document finisher FAX System(U)

## 1-1-1 Specifications

#### Machine

ltom		Specifications					
Item		20p	opm	25p	opm		
Туре		Desktop		·			
Printing method		Electrophotograph	y by semiconducto	r laser, tandem (4)	drum system		
Origi	inals	Sheet, Book, 3-dir	mensional objects (	maximum original s	ize: A3/Ledger)		
Original fe	ed system	Fixed					
Paper weight	Cassette	60 to 256 g/m <sup>2</sup> (Duplex: 60 to 220 g/m <sup>2</sup> )					
i aper weight	MP tray	60 to 256 g/m <sup>2</sup> , 23	0µm (Cardstock)				
Denertune	Cassette	-	Plain, Recycled, Preprinted, Bond, Color (Colour), Letterhead, Thick, High quality, Custom 1 to 8 (Duplex: Same as simplex)				
Paper type	MP tray		Plain, Vellum, Recycled, Preprinted, Bond, Cardstock, Color (Colour), Letterhead, Thick, Envelope, Coated, High quality, Custom 1 to 8				
	Cassette	A3, A4, A5, A6, B Folio, 16K,Envelo	•	egal, Statement, Ex	ecutive, Oficio II,		
Paper size MP tray		A3, A4, A5, A6, B5, ISO B5, B6, Ledger, Letter, Legal, Statement, Executive, Oficio II, Folio, 16K, Envelope #10, Envelope #9, Envelope #6, Envelope Monarch, Envelope DL, Envelope C5, Postcards, Return postcard, Youkei 2, Youkei 4, Custom					
Zoom level		Manual mode : (When using the DP)         25 to 400%, 1% increments           (When the DP is not used) 25 to 400%, 1% increments           Auto mode         : 400%, 200%, 141%, 122%, 115%, 86%, 81%, 70%, 50%, 25%					
		Color	B/W	Color	B/W		
	A4/Letter	20 sheets/min	20 sheets/min	25 sheets/min	25 sheets/min		
	A4R/LetterR	14 sheets/min	14 sheets/min	17 sheets/min	17 sheets/min		
Copying speed	A3/Ledger	8 sheets/min	10 sheets/min	8 sheets/min	13 sheets/min		
(Simplex)	B4/Legal	8 sheets/min	10 sheets/min	8 sheets/min	13 sheets/min		
	B5	20 sheets/min	20 sheets/min	25 sheets/min	25 sheets/min		
	B5R	14 sheets/min	14 sheets/min	17 sheets/min	17 sheets/min		
	A5R	10 sheets/min	10 sheets/min	13 sheets/min	13 sheets/min		
First copy time (A4, feed from cassette)		B/W : 11.7 s or less Color : 13.6 s or less					
Warm-up time (22 °C/71.6 °F, 60% RH)		Power on: 50 s or lessPower on: 40 s or lessSleep mode : 23 s or lessSleep mode : 23 s or less					
Danar	Cassette	500 sheets (80g/m	1 <sup>2</sup> )				
Paper capacity MP tray		100 sheets (80 g/m <sup>2</sup> , plain paper, A4/Letter or less) 25 sheets (80 g/m <sup>2</sup> , plain paper, A4/Letter or more)					
Output tray capacity		Inner tray : 250 sheets (80g/m <sup>2</sup> ) Job separator : 150 sheets (80g/m <sup>2</sup> )					

Item		Specifications		
		20ppm	25ppm	
Continuous copying		1 to 999 sheets		
Light source		White LED		
Scanning system		Flat bed scanning by CCD image sensor		
Photoco	onductor	OPC drum (diameter 30 mm)		
Image wri	te system	Semiconductor laser:		
Charging	g system	Contact charger roller method		
Develope	er system	Touch down developing system Developer: 2-component Toner replenishing: Automatic from the toner container		
Transfei	<sup>-</sup> system	Primary: Transfer belt Secondary: Transfer roller		
Separatio	on system	Small diameter separation, separation	electrode	
Cleaning	g system	Counter blade cleaning		
Charge eras	sing system	Exposure by cleaning lamp (LED)		
Fusing system		One axis IH established method Heat source: IH inverter heating Abnormally high temperature protection devices: thermostat		
CI	PU	PowerPC464 (800MHz)		
Main	Standard	1024 MB		
memory	Maximum	2048 MB		
Interface	Standard	USB interface connector: 1 (USB Hi-speed) USB host: 2 (USB Hi-speed) Network interface: 1 (10BASE-T/100/1000BASE-TX)		
	Option	eKUIO slot: 2		
Reso	lution	600 × 600 dpi		
	Temperature	10 to 32.5 °C/50 to 90.5 °F		
Operating	Humidity	15 to 80% RH		
environment	Altitude	2,500 m/8,202 ft or less		
	Brightness	1,500 lux or less		
Dimensions (W × D × H)		590 × 590 × 748 mm / 23 1/4" × 23 1/4 "× 29 7/16"		
Weight		80 kg / 176.4 lb (with toner containers)		
Space requ	ired (W × D)	874× 590 mm / 34 7/16" × 23 1/4" (using MP tray)		
Power source		120 V AC, 60 Hz, more than 12.0 A 220 - 240 V AC, 50/60 Hz, more than 6.5 A		
Options		Paper feeder (single cassette), Paper finisher, Network kit, Fax kit, Expanded	· ,	

#### **Document processor**

Item	Specifications	
Original feed method	Automatic feed	
Supported original types	Sheet originals	
Original sizes	Maximum: A3/Ledger Minimum : A5/Statement	
Original weights	Simplex: 45 to 160 g/m <sup>2</sup> Duplex : 50 to 120 g/m <sup>2</sup>	
Loading capacity	ading capacity 50 sheets (50 to 80 g/m <sup>2</sup> ) or less	
Dimensions (W × D × H)	mensions (W × D × H) 590 × 489 × 123 mm / 23 1/4" × 19 1/4" × 4 13/16"	
Weight	Weight         7 kg / 15.4 lb or less	

#### Printer

ltem		Specifications				
		20ppm		25ppm		
		Color	B/W	Color	B/W	
Printing	A4/Letter	20 sheets/min	20 sheets/min	25 sheets/min	25 sheets/min	
	A4R/LetterR	14 sheets/min	14 sheets/min	17 sheets/min	17 sheets/min	
	A3/Ledger	10 sheets/min	10 sheets/min	13 sheets/min	13 sheets/min	
speed (Simplex)	B4/Legal	10 sheets/min	10 sheets/min	13 sheets/min	13 sheets/min	
<b>、 、 、 、</b>	B5	20 sheets/min	20 sheets/min	25 sheets/min	25 sheets/min	
	B5R	14 sheets/min	14 sheets/min	17 sheets/min	17 sheets/min	
	A5R	10 sheets/min	10 sheets/min	13 sheets/min	13 sheets/min	
		Color	B/W	Color	B/W	
	A4/Letter	16 sheets/min	16 sheets/min	20 sheets/min	25 sheets/min	
Printing speed (Duplex)	A4R/LetterR	11 sheets/min	11 sheets/min	14 sheets/min	14 sheets/min	
	A3/Ledger	8 sheets/min	8 sheets/min	10 sheets/min	10 sheets/min	
	B4/Legal	8 sheets/min	8 sheets/min	10 sheets/min	10 sheets/min	
	B5	16 sheets/min	16 sheets/min	20 sheets/min	20 sheets/min	
	B5R	14 sheets/min	11 sheets/min	14 sheets/min	14 sheets/min	
	A5R	8 sheets/min	8 sheets/min	10 sheets/min	10 sheets/min	
First print time (A4, feed from cassette)		20ppm B/W         : 11.0 s or less         25ppm B/W         : 10.0 s or less           20ppm Color : 14.0 s or less         25ppm Color : 12.0 s or less				
Reso	lution	600 × 600 dpi				
Operating system		Windows 2000, Windows XP, Windows XP Professional, Windows Server 2003, Windows Server 2003 x64 Edition, Windows Vista x86 Edition, Windows Vista x64 Edition, Windows 7 x86 Edition, Windows 7 x64 Edition, Windows Server 2008, Windows Server 2008 x64 Edition, Apple Macintosh OS 10.x				
Inte	Interface		USB interface connector: 1 (USB Hi-speed) Network interface: 1 (10BASE-T/100/1000BASE-TX)			
Page descrip	tion language	PRESCRIBE				

#### Scanner

lte	em	Specifications			
Operating system		Windows 2000 (Service Pack 2), Windows XP, Windows Vista, Windows 7, Windows Server 2003, Windows Server 2008			
System requirements		IBM PC/AT compatible CPU: Celeron 600 MHz or higher RAM: 128 MB or more HDD free space: 20 MB or more Interface: Ethernet			
Resolution		600 dpi, 400 dpi, 300 dpi, 200 dpi, 200 × 100dpi, 200 × 400dpi			
File format		JPEG, TIFF, PDF, XPS			
Scanning speed	Simplex	B/W : 40 images/min Color: 40 images/min (A4 landscape,300 dpi, Image quality: Text/Photo original)			
	Duplex	B/W : 14 images/min Color : 14 images/min (A4 landscape, 300 dpi, Image quality: Text/Photo original)			
Inter	rface	Ethernet (10 BASE-T/100 BASE-TX)			
Network	protocol	TCP/IP			
Transmission system		PC transmission SMB Scan to SMB FTP Scan to FTP, FTP over SSL E-mail transmission SNTP Scan to E-mail TWAIN scan <sup>*1</sup> WIA scan <sup>*2</sup>			

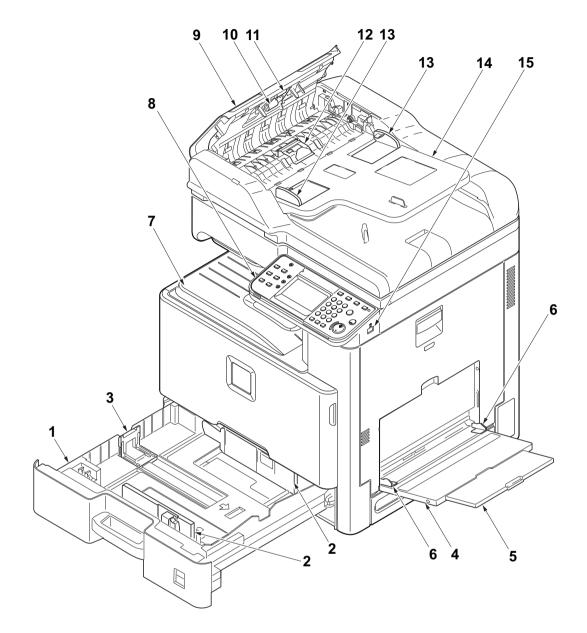
\*1 Available operating system: Windows 2000 (Service Pack 2), Windows XP, Windows Vista, Windows Server 2008, Windows 7

\*2 Available operating system: Windows Vista, Windows Server 2008, Windows 7

NOTE: These specifications are subject to change without notice.

#### 1-1-2 Parts names

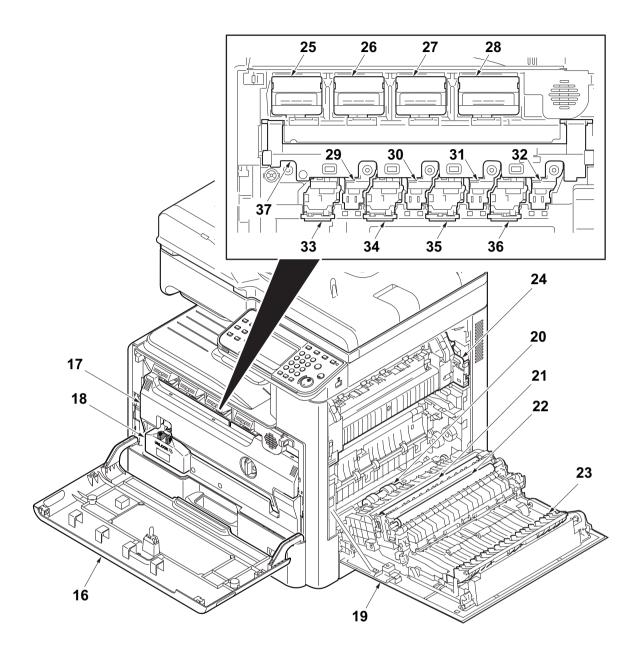
#### (1) Machine (front side)





- 1. Cassette
- 2. Paper width guides
- 3. Paper length guide
- 4. MP (multi purpose) tray
- 5. MP tray extension
- 6. MP Paper width guides
- 7. Inner tray
- 8. Operation panel

- 9. DP top cover
- 10. DP paper feed roller
- 11. DP forwarding roller
- 12. DP separation pully
- 13. DP original width guides
- 14. Original table
- 15. USB memory slot





- 16. Front cover
- 17. Duct cover
- 18. Waste toner box
- 19. Right cover 1
- 20. MP paper feed roller
- 21. Right registration roller
- 22. Secondary transfer roller
- 23. Feed shift guide

- 24. Fuser unit
- 25. Toner container /Y
- 26. Toner container /C
- 27. Toner container /M
- 28. Toner container /K
- 29. Drum unit /Y
- 30. Drum unit /C
- 31. Drum unit /M

- 32. Drum unit /K
- 33. Developer unit /Y
- 34. Developer unit /C
- 35. Developer unit /M
- 36. Developer unit /K
- 37. Duct holder

#### (2) Machine (rear side)

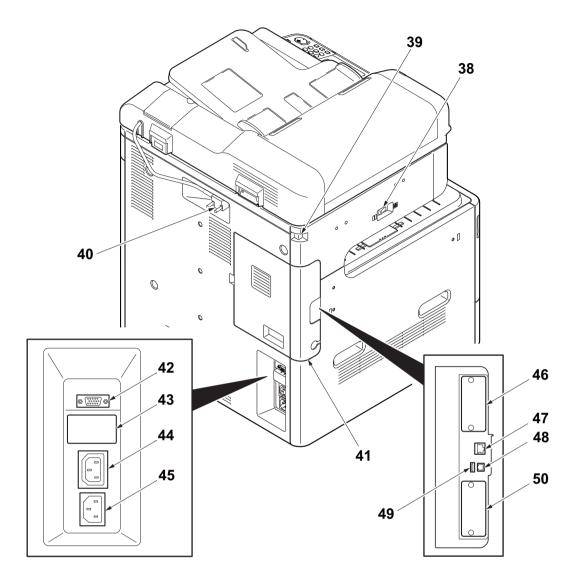
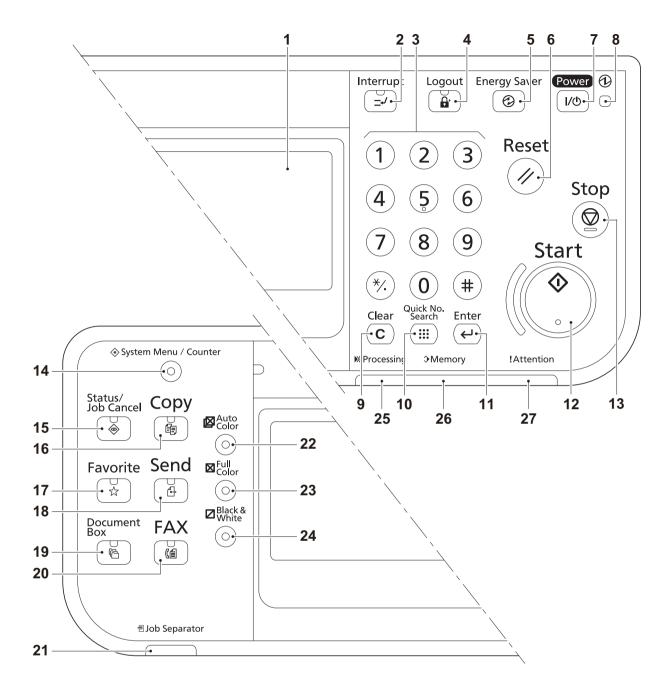


Figure 1-1-3

- 38. Main power switch
- 39. Scanner lock lever
- 40. DP interface connector
- 41. Controller box cover
- 42. DF interface connector
- 43. Cassette heater switch (cover)
- 44. Outlet connector

- 45. Inlet connector
- 46. Option interface slot 1
- 47. Network interface connector
- 48. USB port
- 49. USB interface connector
- 50. Option interface slot 2

#### (3) Operation panel



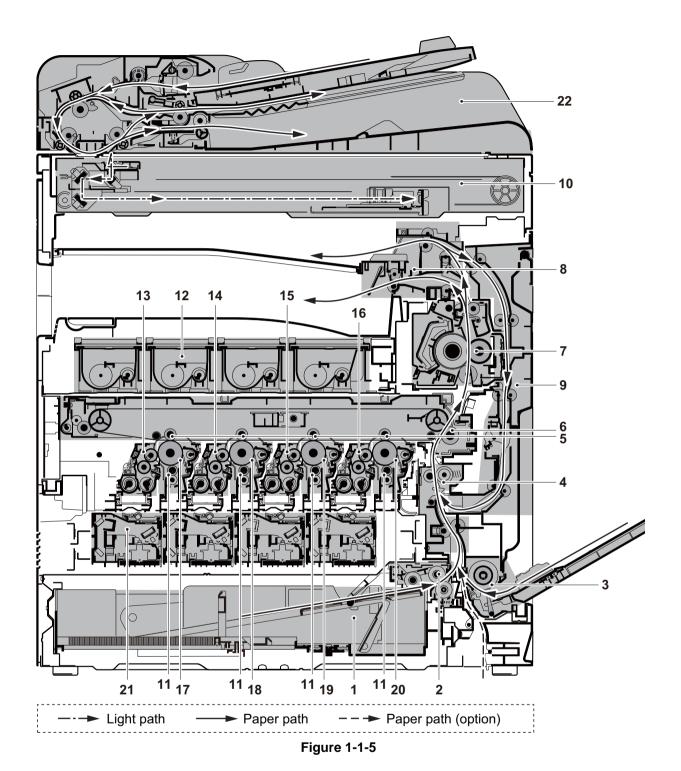
#### Figure 1-1-4

- 1. Message display
- 2. Interrupt key / LED
- 3. Numeric keys
- 4. Logout key / LED
- 5. Energy saver / LED
- 6. Reset key
- 7. Power key / LED
- 8. Main power LED
- 9. Clear key
- 10. Quick No.search key

- 11. Enter key
- 12. Start key / LED
- 13. Stop key
- 14. System menu/Counter key / LED
- 15. Status/Job cancel / LED
- 16. Copy key / LED
- 17. Favorite key / LED
- 18. Send key / LED
- 19. Document box key / LED

- 20. FAX key / LED
- 21. Job separator LED
- 22. Auto color key / LED
- 23. Full color key / LED
- 24. Black & white key / LED
- 25. Processing LED
- 26. Memory LED
- 27. Attention LED

## 1-1-3 Machine cross section



- 1. Cassette
- 2. Cassette paper feed section
- 3. MP tray paper feed section
- 4. Conveying section
- 5. Primary transfer section
- 6. Secondary transfer section / Separation sections
- 7. Fuser unit

- 8. Eject section
- 9. Duplex/conveyning section
- 10. Image scanner unit (ISU)
- 11. Charger roller unit
- 12. Toner container /YCMK
- 13. Developer unit /Y
- 14. Developer unit /C
- 15. Developer unit /M

- 16. Developer unit /K
- 17. Drum unit /Y
- 18. Drum unit /C
- 19. Drum unit /M
- 20. Drum unit /K
- 21. Laser scanner unit (LSU) /YCMK
- 22. Document processor (DP)

## 1-2-1 Installation environment

- 1. Temperature: 10 to 32.5°C/50 to 90.5°F
- 2. Humidity: 15 to 80% RH
- 3. Power supply: 120 V AC, 12.0 A

220 - 240 V AC, 6.5 A

- 4. Power supply frequency: 50 Hz ±2%/60 Hz ±2%
- 5. Installation location

Avoid direct sunlight or bright lighting. Ensure that the photoconductor will not be exposed to direct sunlight or other strong light when removing paper jams.

Avoid locations subject to high temperature and high humidity or low temperature and low humidity; an abrupt change in the environmental temperature; and cool or hot, direct air.

Avoid places subject to dust and vibrations.

Choose a surface capable of supporting the weight of the machine.

Place the machine on a level surface (maximum allowance inclination: 1°).

Avoid air-borne substances that may adversely affect the machine or degrade the photoconductor, such as mercury, acidic of alkaline vapors, inorganic gasses, NOx, SOx gases and chlorine-based organic solvents.

Select a well-ventilated location.

6. Allow sufficient access for proper operation and maintenance of the machine.

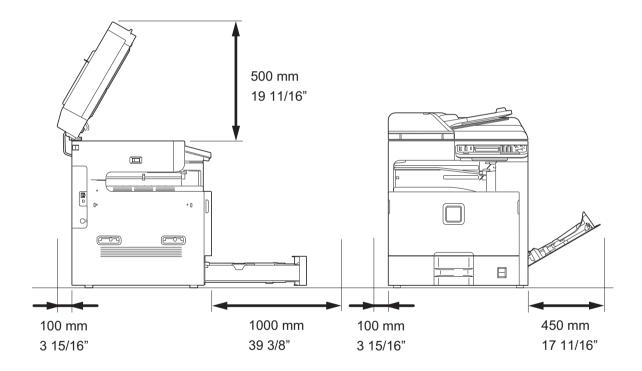
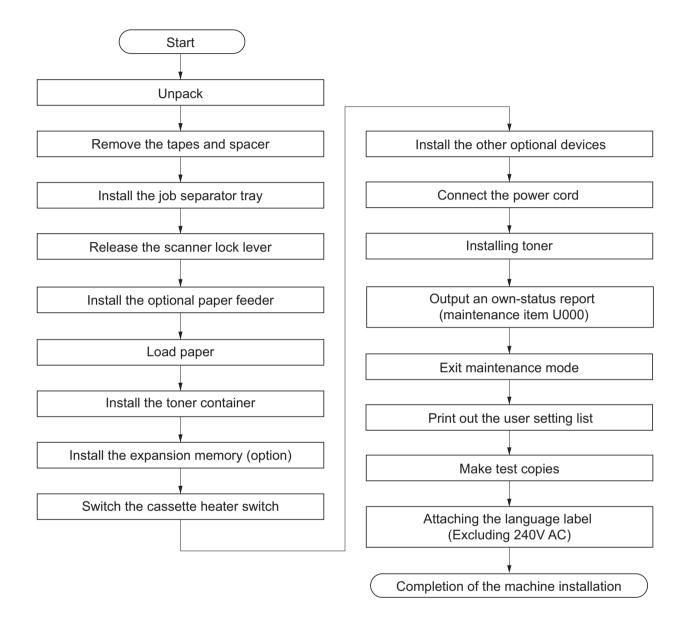
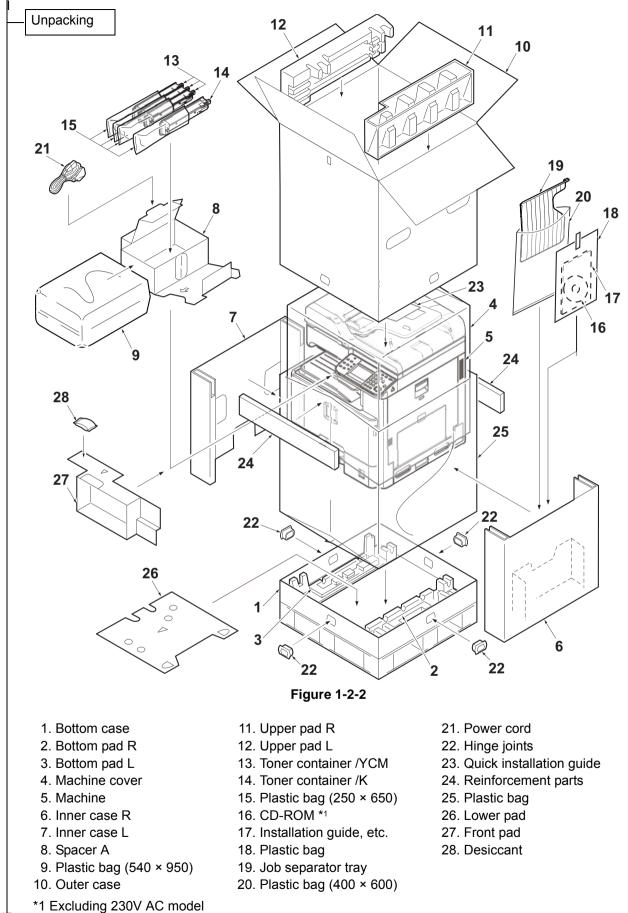


Figure 1-2-1

## 1-2-2 Unpacking and installation

#### (1) Installation procedure





Place the machine on a level surface.

1-2-3

Remove the tapes and spacer

1. Remove four tapes.

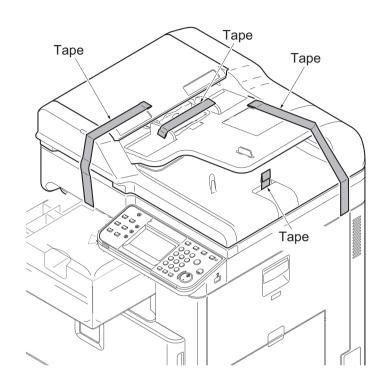


Figure 1-2-3

- 2. Open the DP top cover.
- 3. Slide two DP original width guides and then remove the pad.
- 4. Close the DP top cover.

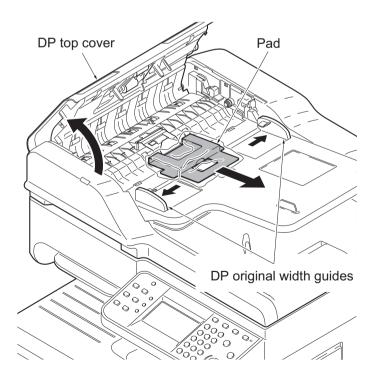


Figure 1-2-4

- 5. Open the DP.
- 6. Remove the protective sheet and paper.

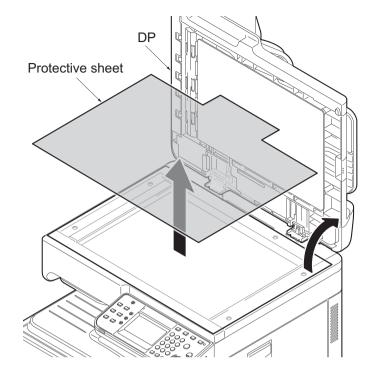


Figure 1-2-5

- 7. Remove the paper.
- 8. Close the DP.

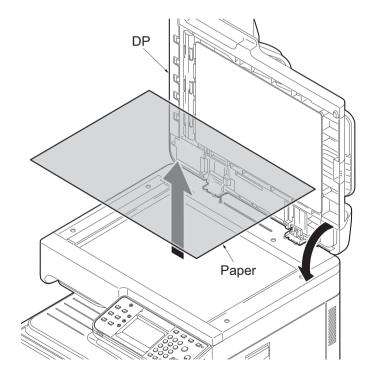
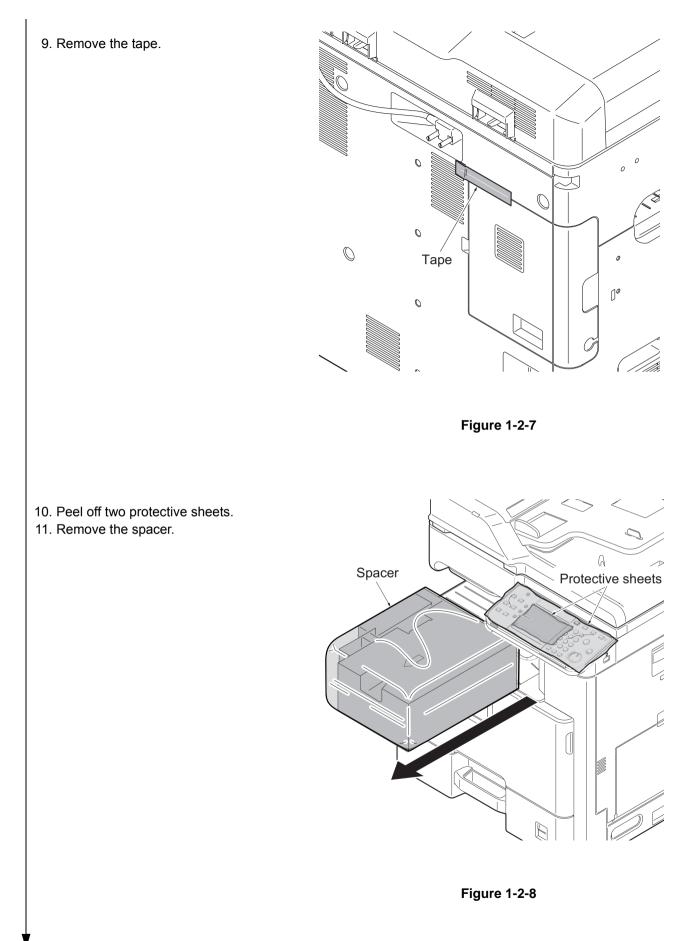
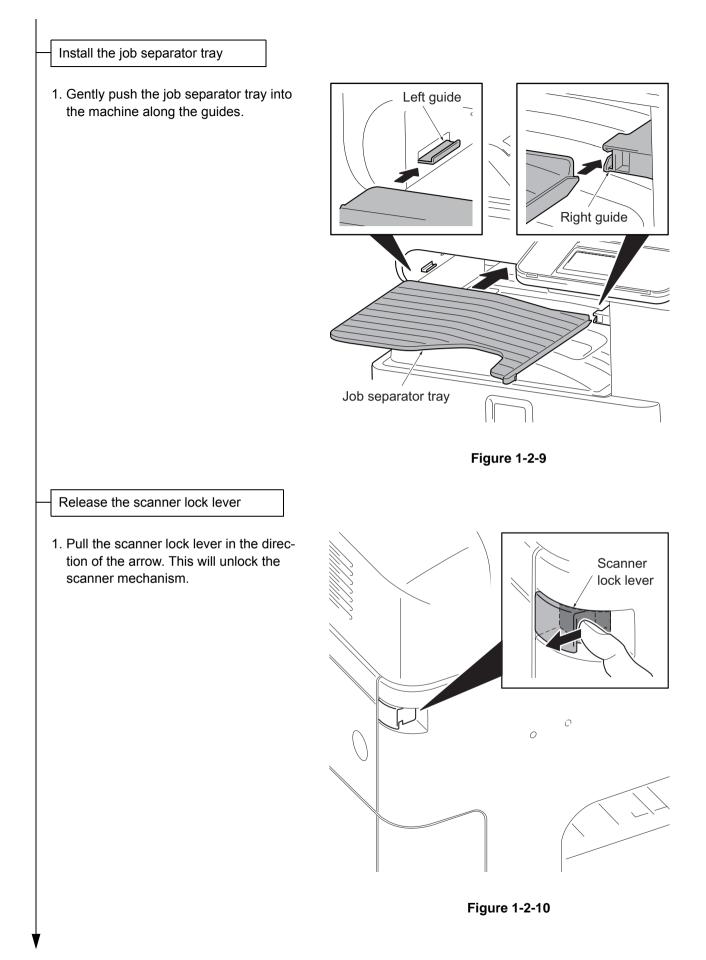


Figure 1-2-6





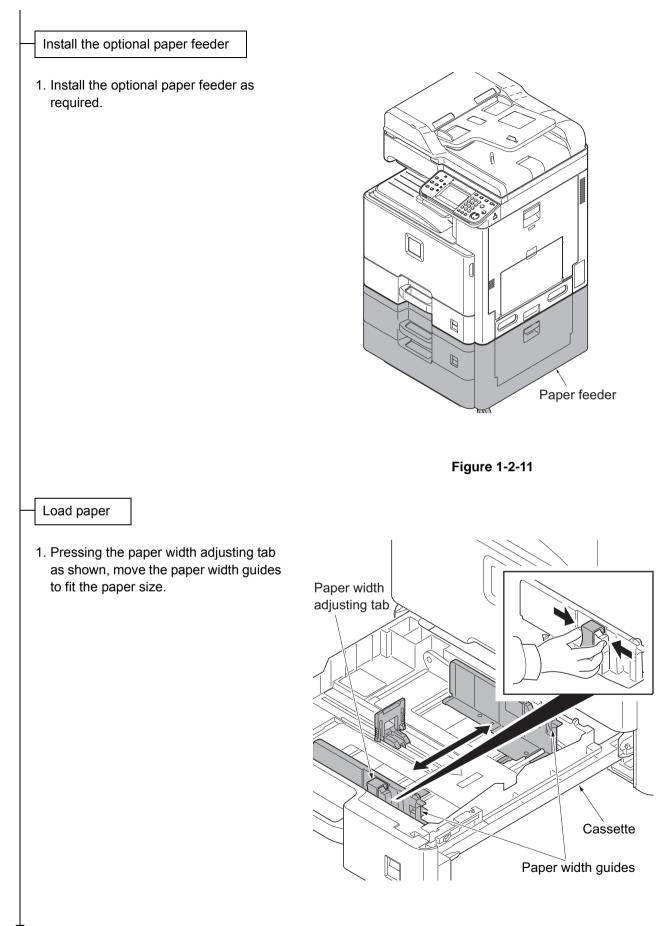
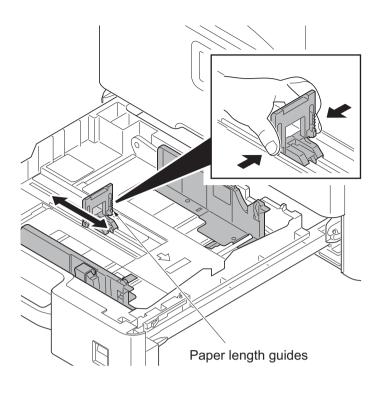


Figure 1-2-12

2. Adjust the paper length guide to fit the paper size.





- 3. Align the paper so that it is abut with the right end of the cassette.
- 4. Insert the cassette size plate.
- 5. Gently push the cassette back in.

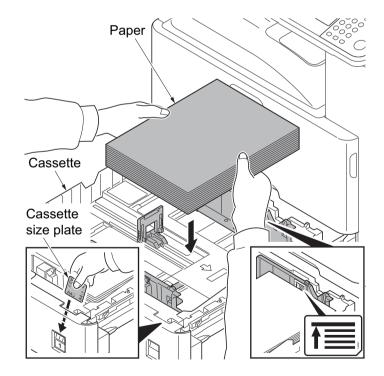


Figure 1-2-14

#### Install the toner container

- 1. Open the front cover.
- 2. Hold the toner container vertically and tap the upper part five times or more. Turn the toner container upside down and tap the upper part five times or more.

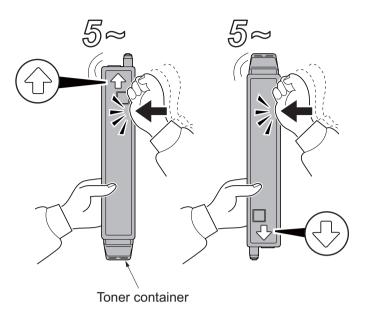
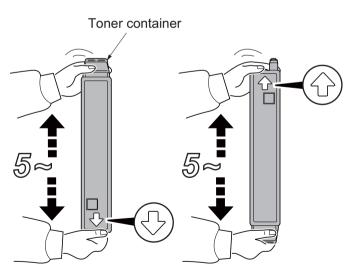


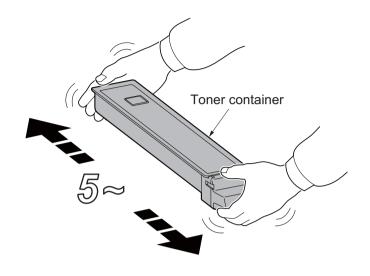
Figure 1-2-15

 Shake the toner container up and down five times or more. Turn the toner container upside down and shake it five times or more.





4. Shake the toner container approximately five or six times in the horizontal direction to stir toner.





5. Gently push the toner container into the machine.Push the container all the way into the

machine until it locks in place.

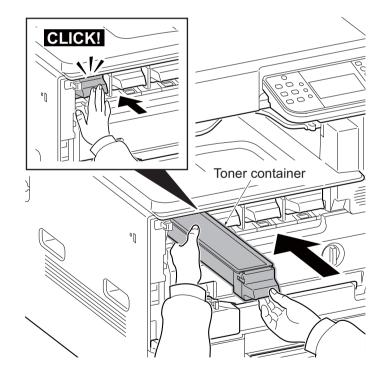
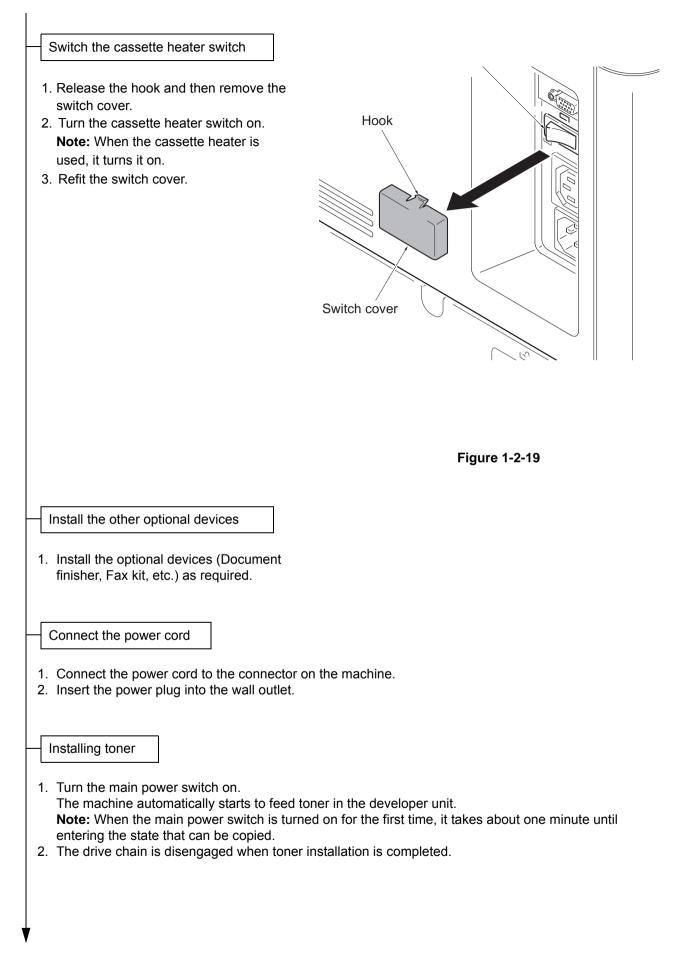


Figure 1-2-18



Output an own-status report (maintenance item U000)
<ol> <li>Enter 000 using the numeric keys and press the start key.</li> <li>Select Maintenance and press the start key to output a list of the current settings of the maintenance items.</li> <li>Press the stop key.</li> </ol>
Exit maintenance mode
1. Enter 001 to exit maintenance mode.
Print out a user setting list 1. Select [Report Print] to print a user setting list.
Make test copies
1. Place an original and make test copies.
Attaching the language label (Excluding 240V AC)
1. Attach the corresponding language label as required.

Installation is completed.

### (2) Setting initial copy modes

Factory settings are as follows:

Maintenance item No.	Contents	Factory setting
U253	Switching between double and single counts	Double count (A3/Ledger)
U260	Selecting the timing for copy counting	Eject
U285	Setting service status page	On
U326	Setting the black line cleaning indication	On/8
U343	Switching between duplex/simplex copy mode	Off

# 1-2-3 Install the expansion memory (option)

#### Procedure

1. Turn off the main power switch. Caution: Do not insert or remove expansion memory while machine power is on.

Doing so may cause damage to the machine and the expansion memory.

- 2. Release four hooks and then remove the controller box cover.
- 3. Remove two screws.

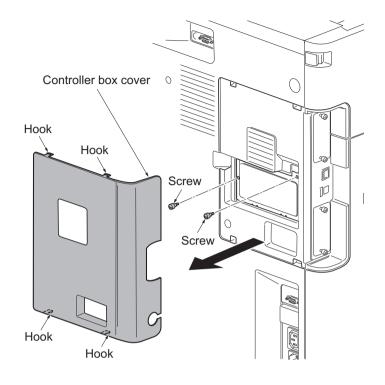


Figure 1-2-20

- 4. Remove the memory slot cover.
- 5. Insert the expansion memory into the memory socket so that the notches on the memory align with the corresponding protrusions in the slot.
- 6. Refit the memory slot cover.
- 7. Refit two screws.
- 8. Refit the controller box cover.
- Print a status page to check the memory expansion.(See 1-3-98) If memory expansion has been properly performed, information on the installed memory is printed with the total memory capacity has been increased. Standard memory capacity is 1024 MB.

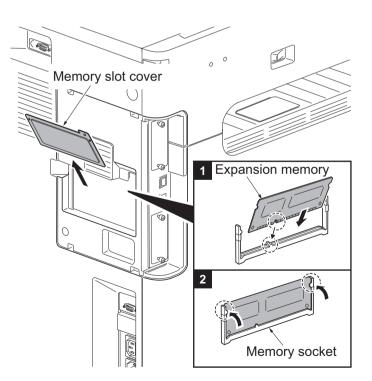
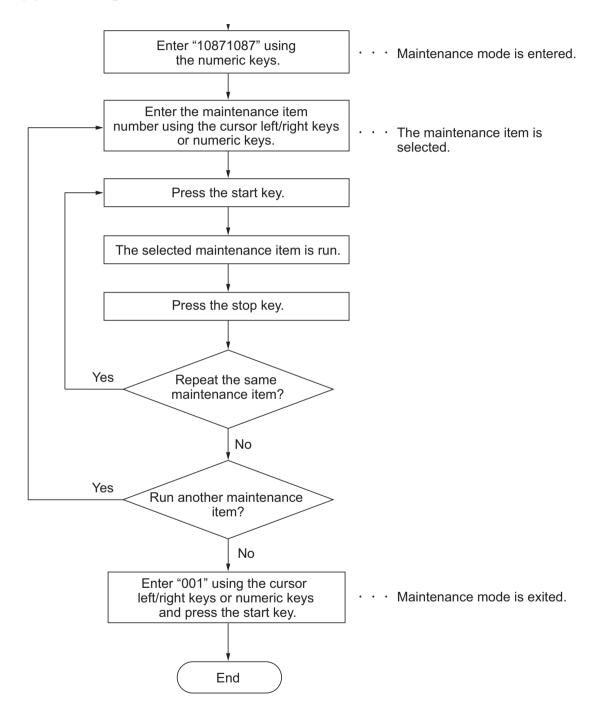


Figure 1-2-21

## 1-3-1 Maintenance mode

The machine is equipped with a maintenance function which can be used to maintain and service the machine.

### (1) Executing a maintenance item



### (2) Maintenance modes item list

Section	ltem No.	Content of maintenance item	Initial setting
General	U000	Outputting an own-status report	-
	U001	Exiting the maintenance mode	-
	U002	Setting the factory default data	-
	U004	Setting the machine number	-
	U019	Displaying the ROM version	-
Initialization	U021	Memory initializing	-
Drive, paper	U030	Checking the operation of the motors	-
feed and	U031	Checking switches and sensors for paper conveying	-
paper con- veying sys-	U032	Checking the operation of the clutches	-
tem	U033	Checking the operation of the solenoids	-
	U034	Adjusting the print start timing Leading edge registration Center line	0/0/0 0/0/0/0/0
	U035	Setting the printing area for folio paper	330/210
	U037	Checking the operation of the fan motors	-
	U051	Adjusting the deflection in the paper	0/0/0/0
	U053	Setting the adjustment of the motor speed	-/0/5/5/0/5/10/0/0
Optical	U063	Adjusting the shading position	0
	U065	Adjusting the scanner magnification	0/0
	U066	Adjusting the scanner leading edge registration	0/0
	U067	Adjusting the scanner center line	0/0
	U068	Adjusting the scanning position for originals from the DP	0/0
	U070	Adjusting the DP magnification	0/0
	U071	Adjusting the DP scanning timing	0/0/0/0
	U072	Adjusting the DP center line	0/0
	U074	Adjusting the DP input light luminosity	0
	U089	Outputting a MIP-PG pattern	-
	U099	Adjusting original size detection	40/30/20/19 50/50/50/49 (When DP is installed.)

Section	ltem No.	Content of maintenance item	Initial setting
High voltage	U100	Setting the main high voltage	145/145/145/145
	U101	Setting the voltage for the primary transfer	55/35 0/15/5/20 -3/-3/-3 10
	U106	Setting the voltage for the secondary transfer	60/60/45/40 80/82/55/40 53/55/41/35 47/52/39/32 45/48/38/30 43/45/35/27 35/45/35/35/25/30 55/45/40/65/55/38 50/41/32/50/40/30 40/38/27/37/36/25
	U107	Setting the voltage for the intermediate transfer cleaning	-
	U108	Setting separation shift bias	-
	U111	Checking the drum drive time	-
	U118	Displaying the drum history	-
	U127	Checking/clearing the transfer count	-
Developer	U135	Checking toner motor operation	-
	U136	Setting toner near end detection	0/0
	U139	Displaying the temperature and humidity outside the machine	-
	U140	Setting developer bias	450/150/36/27/1400 480/180/36/27/1400 480/180/36/27/1400 450/150/36/27/1400 50/150/36/27/1000 50/150/36/27/1000 50/150/36/27/1000 350/180/36/27/1200 350/180/36/27/1200 350/180/36/27/1200 0/0 0/0 0/0 0/0
	U147	Setting for toner applying operation	0/60
	U150	Checking sensors for toner	-
	U157	Checking the developing drive time	0/0/0/0

Section	ltem No.	Content of maintenance item	Initial setting
Fuser	U161	Setting the fuser control temperature	210/240/190/140/100/ 130/150/160/160/130/ 160/240/90/60/240/100
	U167	Displaying fuser heater temperature	0
	U169	Confirmation/setting the fuser power supply	0
	U199	Displaying fuser heater temperature	-
Operation	U201	Initializing the touch panel	-
panel and support	U203	Checking DP operation	-
equipment	U207	Checking the operation panel keys	-
	U222	Setting the IC card type	Other
	U243	Checking the operation of the DP motors	-
	U244	Checking the DP switches	-
Mode setting	U250	Checking/clearing the maintenance cycle	200000/200000/0
	U251	Checking/clearing the maintenance counter	0/0/0
	U252	Setting the destination	-
	U253	Switching between double and single counts	Double count (A3/Ledger)
	U260	Selecting the timing for copy counting	Eject
	U285	Setting service status page	ON
	U325	Setting the paper interval	1
	U326	Setting the black line cleaning indication	ON/8
	U332	Setting the size conversion factor	1.0
	U341	Specific paper feed location setting for printing function	Off/Off/Off
	U343	Switching between duplex/simplex copy mode	Off
	U345	Setting the value for maintenance due indication	0

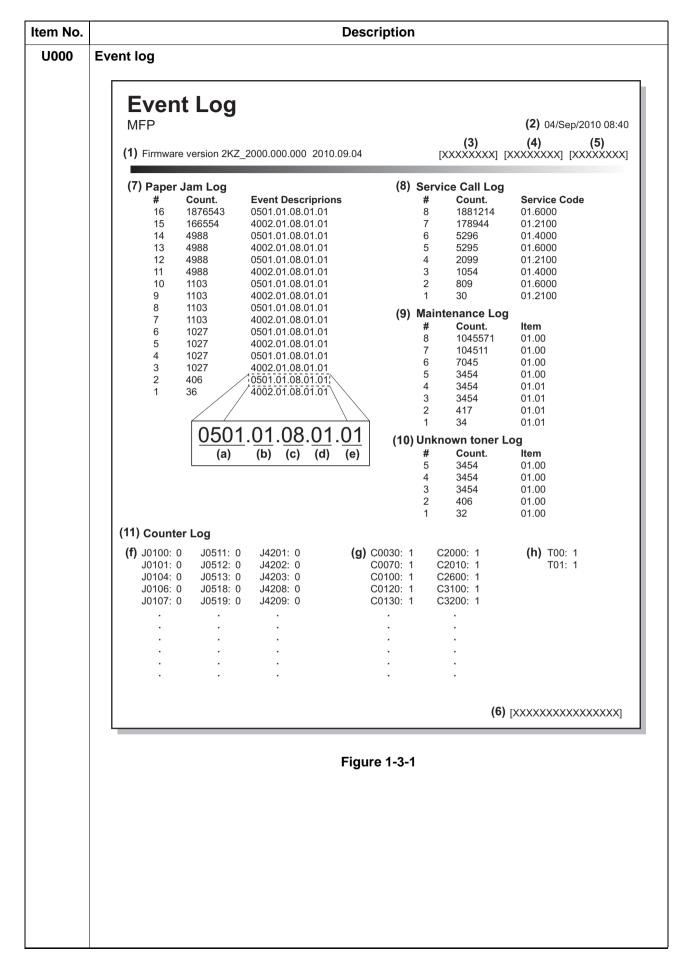
Section	ltem No.	Content of maintenance item	Initial setting
Image	U402	Adjusting margins of image printing	3.0/2.5/2.5/5.0
processing	U403	Adjusting margins for scanning an original on the contact glass	2.0/2.0/2.0/2.0
	U404	Adjusting margins for scanning an original from the DP	3.0/2.5/3.0/4.0
	U407	Adjusting the leading edge registration for memory image printing	0
	U411	Adjusting the scanner automatically	-
	U425 U429	Setting the target White Black Gray1 Gray2 Gray3 C M Y R G B Adjust original Setting the offset for the color balance Text+Photo Photo Text Graphics/Map Copy/Printout	93.6/0.9/-0.4 10.6/-0.2/-0.7 76.2/-0.2/1.2 25.2/-0.2/-0.2 51.3/-0.3/0.3 72.6/-32.8/-11.5 48.1/69.9/-6.1 86.2/-18.6/81.7 46.7/54.2/38.6 67.8/-51.3/48.9 38.8/25.3/-22.8 5/10.0/190.0 0/0/0/0/0 0/0/0/0/0 0/0/0/0/0 0/0/0/0/0
	U432	Setting the center offset for the exposure	0/0/0
	U464	Setting the ID correction operation	On/On 10/20 935/400 895/200 885/200 846/130
	U470	Setting the JPEG compression ratio Copy Send Photo Text HC-PDF System	85/85/85/85 30/40/51/70/90 30/40/51/70/90 30/40/51/70/90 30/40/51/70/90 15/25/60 15/25/60 90/90
	U473	Adjusting laser power output	92/92/92/50

Section	ltem No.	Content of maintenance item	Initial setting
Others	U901	Checking copy counts by paper feed locations	0/0/0/0
	U903	Checking/clearing the paper jam counts	-
	U904	Checking/clearing the call for service counts	-
	U905	Checking counts by optional devices	0/0/0/0
	U910	Clearing the print coverage data	-
	U917	Setting backup data reading/writing	-
	U927	Clearing the all copy counts and machine life counts (one time only)	-
	U942	Setting of deflection for feeding from DP	0/0
	U984	Checking the developing unit number	-
	U985	Displaying the developer history	-

## (3) Contents of the maintenance mode items

Item No.	Description					
U000	Outputting an own-status report					
	occurrences. Outputs the ev <b>Purpose</b> To check the current setting Before initializing or replacin	ettings of the maintenance items and paper jam and service call rent log. Also sends output data to the USB memory. of the maintenance items, or paper jam or service call occurrences. Ig the backup RAM, output a list of the current settings of the mainte ettings after initialization or replacement.				
		put using the cursor up/down keys. ne cursor left/right keys or numeric keys.				
	Display	Output list				
	Maintenance	List of the current settings of the maintenance modes				
	Event	Outputs the event log				
	All	Outputs the all reports				
	4. Press the start key. A list	t is output.				
	<ol> <li>Insert USB memory in U</li> <li>Turn the main power swith</li> <li>Enter the maintenance it</li> <li>Press the start key.</li> <li>Select the item to be ser</li> <li>Select [Text] or [HTML].</li> </ol>	itch on. tem.				
	Display	Output list				
	Print	Outputs the report				
	USB (Text)	Sends output data to the USB memory (text type)				
	USB (HTML)	Sends output data to the USB memory (HTML type)				
	<ol> <li>Press the start key. Output will be sent to the</li> <li>Completion Press the stop key. The screet</li> </ol>	e USB memory. een for selecting a maintenance item No. is displayed.				

### 2KZ/2K0



Item No.			Desc	ription	
U000	Detail	of event log			
	No.	Items		Description	
	(1)	System vers	sion		
	(2)	System date	9		
	(3)	Engine soft	version		
	(4)	Engine boot	version		
	(5) (6)	Operation pa	anel mask version		
		Machine ser	ial number		
	(7)	Paper Jam	#	Count.	Event
		Log	Remembers 1 to 16 of occurrence. If the occur- rence of the previous paper jam is less than 16, all of the paper jams are logged. When the occurrence excesseds 16, the oldest occur- rence is removed. (a) Cause of paper jam (H Refer to P.1-4-1 for paper 0000: Initial jam 0100: Secondary paper fe 0101: Waiting for process 0104: Waiting for conveyi 0106: Paper feeding requ 0107: Waiting for fuser pa 0110: Right cover open 0110: Right cover open 0120: Receiving a duplex 0121: Exceeding number 0210: Right lower cover of 0501: No paper feed from 0502: No paper feed from 0503: No paper feed from 0503: No paper feed from 0504: Multiple sheets in of 0513: Multiple sheets in of 0514: Multiple sheets in of 0515: Multiple sheets in of 0515: Multiple sheets in of 0515: Multiple sheets in of 0516: Multiple sheets in of 0517: Multiple sheets in of 0518: Multiple sheets in of 0518: Multiple sheets in of 0519: Multiple sheets in of 0519: Multiple sheets in of 0511: Multiple sheets in of 0511: Multiple sheets in of 0511: Multiple sheets in of 0511: Multiple sheets in	jam location eed request time out package to be ready ng package to be ready est for duplex printing ackage to be ready paper feeding request of duplex pages circul open a cassette 1 a cassette 2 a cassette 3 a duplex section a MP tray assette 1 cassette 2 cassette 3 a luplex section <i>MP</i> tray assette 3 luplex section <i>MP</i> tray	time out t while paper is empty
			1413: PF feed sensor 1 s 4002: Registration senso 4003: Registration senso	tay jam r non arrival jam (casse	

Item No.	Description					
U000		ltown	Decemination			
	No.	Items	Description			
	(7)	Paper Jam	4012: Registration sensor stay jam (cassette 2)			
	cont.	Log	4013: Registration sensor stay jam (cassette 3)			
			4201: Eject sensor non arrival jam (cassette 1)			
			4202: Eject sensor non arrival jam (cassette 2)			
			4203: Eject sensor non arrival jam (cassette 3) 4208: Eject sensor non arrival jam (duplex)			
			4209: Eject sensor non arrival jam (Mp tray)			
			4211: Eject sensor stay jam (cassette 1)			
			4212: Eject sensor stay jam (cassette 2)			
			4213: Eject sensor stay jam (cassette 3)			
			4218: Eject sensor stay jam (duplex)			
			4219: Eject sensor stay jam (MP tray)			
			4301: Duplex sensor non arrival jam (cassette 1)			
			4302: Duplex sensor non arrival jam (cassette 2)			
			4303: Duplex sensor non arrival jam (cassette 3)			
			4309: Duplex sensor non arrival jam (MP tray)			
			4311: Duplex sensor stay jam (cassette 1)			
			4312: Duplex sensor stay jam (cassette 2)			
			4313: Duplex sensor stay jam (cassette 3)			
			4319: Duplex sensor stay jam (MP tray)			
			4901: Bridge conveying sensor 1 non arrival jam (cassette 1)			
			4902: Bridge conveying sensor 1 non arrival jam (cassette 2)			
			4903: Bridge conveying sensor 1 non arrival jam (cassette 3) 4908: Bridge conveying sensor 1 non arrival jam (duplex)			
			4909: Bridge conveying sensor 1 non arrival jam (ddplex)			
			4911: Bridge conveying sensor 1 stay jam (cassette 1)			
			4912: Bridge conveying sensor 1 stay jam (cassette 2)			
			4913: Bridge conveying sensor 1 stay jam (cassette 3)			
			4918: Bridge conveying sensor 1 stay jam (duplex)			
			4919: Bridge conveying sensor 1 stay jam (MP tray)			
			5001: Bridge conveying sensor 3 non arrival jam (cassette 1)			
			5002: Bridge conveying sensor 3 non arrival jam (cassette 2)			
			5003: Bridge conveying sensor 3 non arrival jam (cassette 3)			
			5008: Bridge conveying sensor 3 non arrival jam (duplex)			
			5009: Bridge conveying sensor 3 non arrival jam (MP tray)			
			5011: Bridge conveying sensor 3 stay jam (cassette 1)			
			5012: Bridge conveying sensor 3 stay jam (cassette 2)			
			5013: Bridge conveying sensor 3 stay jam (cassette 3)			
			5018: Bridge conveying sensor 3 stay jam (duplex)			
			5019: Bridge conveying sensor 3 stay jam (MP tray)			
			6023: Staple cover open			
			6043: DF top cover open6103: DF paper conveying sensor non arrival			
			jam 6113: DE paper conveying sensor stav jam			
			6113: DF paper conveying sensor stay jam 6123: DF paper conveying sensor remaining jam			
			6413: DF eject paper sensor stay jam			
			6423: DF eject paper sensor remaining jam			
			6803: Front adjustment plate operation ON error			

Item No.	Description					
U000	No	Itoms		Description		
	No. (7) cont.	Items Paper Jam Log	6903: Rear adjustmer 6913: Rear adjustmer 7013: Staple operation 7023: Staple initial op 7913: Sequence error 7923: Sequence error 7933: Sequence error 7943: Sequence error 7953: Sequence error 9000: No original feed 9001: DP original con 9004: DP original swid 9010: DP open 9011: DP top cover op 9110: DP paper feed s	eration error 1 (operation prohibited) 2 (initialoperation error) 3 (Error in the reception 4 (standby) 5 (Error in between cop veying jam chback jam pen sensor stay jam sensor non arrival jam	or rror n of backup data)	
			9410: DP timing sense (b) Detail of paper sou 00: MP tray 01: Cassette 1 02: Cassette 2 (paper 03: Cassette 3 (paper 04 to 09: Reserved	or stay jam irce (Hexadecimal) feeder 1)		
			<ul> <li>(c) Detail of paper size</li> <li>00: (Not specified)</li> <li>01: Monarch</li> <li>02: Business</li> <li>03: International DL</li> <li>04: International C5</li> <li>05: Executive</li> <li>06: Letter-R</li> <li>86: Letter-E</li> <li>07: Legal</li> <li>08: A4R</li> <li>88: A4E</li> <li>09: B5R</li> <li>89: B5E</li> <li>0A: A3</li> </ul>	e (Hexadecimal) 0B: B4 0C: Ledger 0D: A5R 0E: A6 0F: B6 10: Commercial #9 11: Commercial #6 12: ISO B5 13: Custom size 1E: C4 1F: Postcard 20: Reply-paid post- card 21: Oficio II	<ul> <li>22: Special 1</li> <li>23: Special 2</li> <li>24: A3 wide</li> <li>25: Ledger wide</li> <li>26: Full bleed paper (12 x 8)</li> <li>27: 8K</li> <li>28: 16K-R</li> <li>A8: 16K-E</li> <li>32: Statement-R</li> <li>B2: Statement-E</li> <li>33: Folio</li> <li>34: Western type 2</li> <li>35: Western type 4</li> </ul>	
	L			<u> </u>	<u> </u>	

No.		De	scription	
00	1	1		
No.	Items	Description		
(7)	Paper Jam	(d) Detail of paper type (Hexadecimal)		
cont.	Log	01: Plain 02: Transparency 03: Preprinted 04: Labels 05: Bond 06: Recycled 07: Vellum 08: Rough 09: Letterhead (e) Detail of paper eje	0A: Color 0B: Prepunched 0C: Envelope 0D: Cardstock 0E: Coated 0F: 2nd side 10: Media 16 11: High quality	15: Custom 1 16: Custom 2 17: Custom 3 18: Custom 4 19: Custom 5 1A: Custom 6 1B: Custom 7 1C: Custom 8
		01: Face down (FD) 02: Face up (FU)/Doc 03: Document finishe	cument finisher face u	, ,
(8)	Service Call	#	Count.	Service Code
	Log	Remembers 1 to 8 of occurrence of self diagnostics error. If the occurrence of the previous diag- nostics error is less than 8, all of the diagnostics errors are logged.	The total page count at the time of the self diagnostics error.	Self diagnostic error code (See page 1-4-9) Example: 01.6000 01: Self diagnostic error 6000: Self diagnostic erro code number
(9)	Maintenance	#	Count.	Item
	Log	Remembers 1 to 8 of occurrence of replacement. If the occurrence of the previous replace- ment of toner con- tainer is less than 8, all of the occur- rences of replace- ment are logged.	The total page count at the time of the replacement of the toner container.	Code of maintenance replacing item (1 byte, 2 categories) First byte (Replacing item 01: Toner container Second byte (Type of replacing item) 00: Black First byte (Replacing item) 02: Maintenance kit Second byte (Type of replacing item) 01: MK-895A 02: MK-895B

Item No.			Desc	ription	
U000	No.	Items		Description	]
	(10)	Unknown Toner	#	Count.	Item
		Log	Remembers 1 to 5 of occurrence of unknown toner detection. If the occurrence of the previous unknown toner detection is less than 5, all of the unknown toner detection are logged.	The total page count at the time of the toner empty error with using an unknown toner con- tainer.	Unknown toner log code (1 byte, 2 categories) First byte 01: Toner container (Fixed) Second byte 00: Black
	(11)	Counter Log	(f) Paper jam	(g) Self diagnostic error	(h) Maintenance item replacing
		Comprised of three log coun- ters including paper jams, self diagnostics errors, and replacement of the toner con- tainer.	Indicates the log counter of paper jams depending on location. Refer to Paper Jam Log. All instances includ- ing those are not occurred are dis- played.	Indicates the log counter of self diag- nostics errors depending on cause. (See page 1-3-9) Example: C6000: 4 Self diagnostics error 6000 has hap- pened four times.	Indicates the log coun- ter depending on the maintenance item for maintenance. T: Toner container 00: Black M: Maintenance kit 01: MK-477/475/479 Example: T00: 1 The toner container has been replaced once.

Item No.		Description
U001	Exiting the maintenance mo	ode
	<b>Description</b> Exits the maintenance mode <b>Purpose</b> To exit the maintenance mode	and returns to the normal copy mode. e.
	<b>Method</b> Press the start key. The norm	al copy mode is entered.
U002	Setting the factory default of	data
	Purpose	ions to the factory default settings. he scanner to the position for transport
	<ul> <li>4. Turn the main power swit</li> <li>* : An error code is displa</li> <li>When errors occurred</li> <li>maintenance item U00</li> </ul>	ayed in case of an initialization error. , turn main power switch off then on, and execute initialization using
	Error codes	Description
	0001	Description
		Entity error Controller error
	0002	
	0040	Engine error Scanner error
	0040	
l		

n No.	. Description				
04	Setting the machine number				
	Description				
	Sets or displays the machin	le number.			
	<b>Purpose</b> To check or set the machine	e number			
	Method				
	<ol> <li>Press the start key. If the machine serial nu</li> </ol>	mber of engine PWB matches with that of main PWB			
	Display	Description			
	Machine No.	Displays the machine serial number			
	If the machine serial nu	mber of engine PWB does not match with that of main PWB			
	Display	Description			
	Machine No.(Main)	Displays the machine serial number of main			
	Machine No.(Eng)	Displays the machine serial number of engine			
	Press the stop key. The scr	een for selecting a maintenance item No. is displayed.			

em No.		Description			
U019	Displaying the ROM vers	sion			
	Description	scription			
	Displays the part number of the ROM fitted to each PWB.				
	Purpose	or to decide, if the newest version of ROM is installed.			
	Method				
	-	e ROM version are displayed. ing the cursor up/down keys.			
	Display	Description			
	Main	Main ROM			
	MMI	Operation ROM			
	Engine	Engine ROM			
	Engine Boot	Engine booting			
	RFID	RFID ROM			
	IO CPU	IO CPU ROM			
	IO CPU Boot	IO CPU booting			
	Option Language	Optional language ROM			
	Dictionary	-			
	DP	Document processor ROM			
	DP Boot	Document processor booting			
	PF	Paper feeder ROM			
	PF Boot	Paper feeder booting			
	DF	Document finisher ROM			
	DF Boot	Document finisher booting			
	AK	Bridge ROM			
	AK Boot	Bridge booting			
	Fax APL	Fax control PWB APL			
	Fax Boot	Fax control PWB booting			
	Fax IPL	Fax control PWB IPL			

Press the stop key. The screen for selecting a maintenance item No. is displayed.

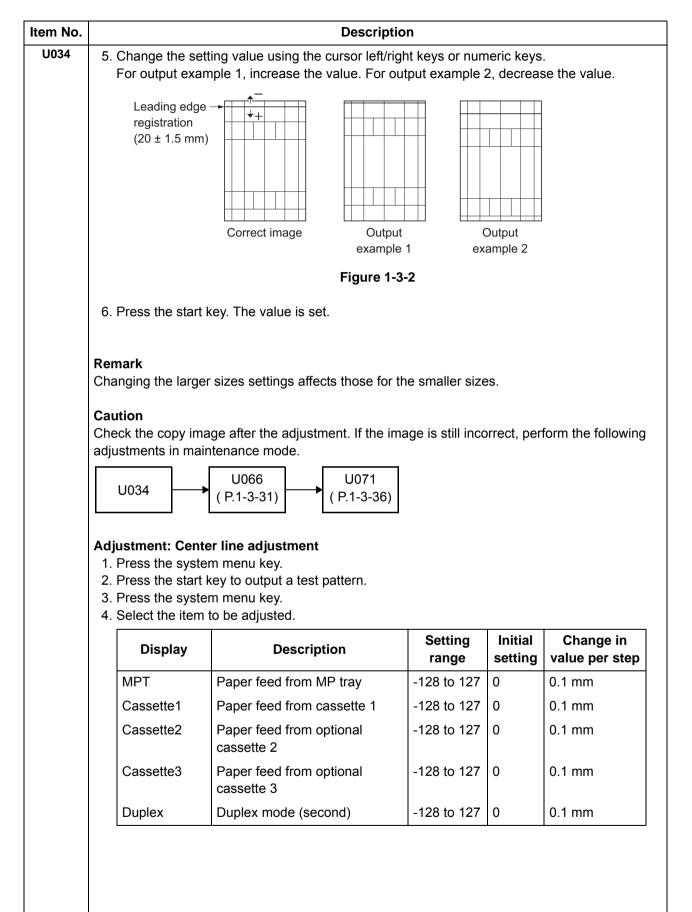
Item No.		Description
U021	Memory initializing	
	vice call history and mode set	those pertinent to the type of machine, namely each counter, ser- tting. Also initializes backup RAM according to region specification U252 Setting the destination. s to their factory default.
	machines is initialized bas 4. Turn the main power swite * : An error code is displa	yed in case of an initialization error. turn main power switch off then on, and execute initialization using
	Error codes	
	Codes	Description
	0001	Entity error
	0002	
	0020	
	0040	Scanner error

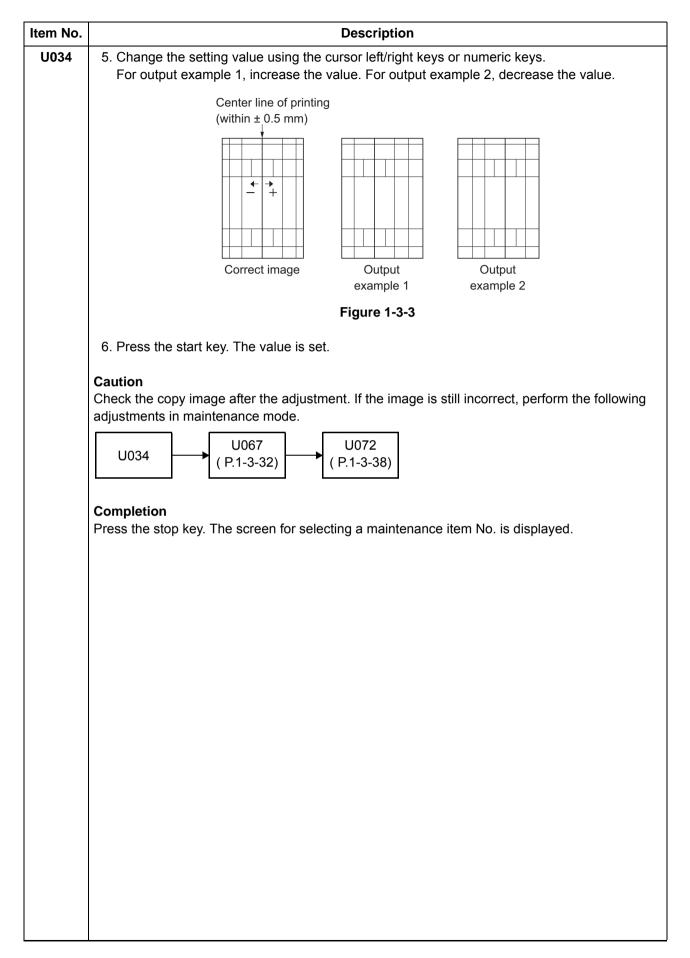
	Description			
Checking the operation of	of the motors			
Description				
Drives each motor.				
Purpose				
To check the operation of e	ach motor.			
Method				
1. Press the start key.				
2. Select the motor to be	•			
3. Press the start key. The operation starts.				
Display Feed	Description			
	Conveying motor (CM) is turned on			
Exit(CW)	Eject motor (EM) is turned on clockwise			
Exit(CCW)	Eject motor (EM) is turned on counterclockwise			
Drum K	Drum motor K (DRM-K) is turned on			
Drum COL	Drum motor YCM (DRM-YCM) is turned on			
Drum K(CW)	Drum motor K (DRM-K) is turned on clockwise			
Drum K(CCW)	Drum motor K (DRM-K) is turned on counterclockwise			
Drum COL(CW)	Drum motor YCM (DRM-YCM) is turned on clockwise			
Drum COL(CCW)	Drum motor YCM (DRM-YCM) is turned on counterclockwise			
<ol> <li>To stop operation, pres</li> <li>Completion</li> <li>Press the stop key. The sc</li> </ol>	reen for selecting a maintenance item No. is displayed.			

U031       Checking switches and sensors for paper conveying         Description       Displays the on-off status of each paper detection switch or sensor on the paper path.         Purpose       To check if the switches and sensors for paper conveying operate correctly.         Method       1. Press the start key.         2. Turn each switch or sensor on and off manually to check the status.         When a switch or sensor is detected to be in the ON position, the display for that switch sensor will be "1".         Display       Switches and sensors         Switch       00000000         1st digit       Euser pre sensor (FUPS)         2nd digit       Job paper full sensor (JPFS)         4th digit       Paper full sensor (FFS)         5th digit       Feed sensor (FUS)         6th digit       Duplex sensor (BUS)         7th digit       Eject sensor (ES)         8th digit       Registration sensor (RS)	Description         Displays the on-off status of each paper detection switch or sensor on the paper path.         Purpose         To check if the switches and sensors for paper conveying operate correctly.         Method         1. Press the start key.         2. Turn each switch or sensor on and off manually to check the status.         When a switch or sensor is detected to be in the ON position, the display for that switch o sensor will be "1".         Display       Switches and sensors         Switch       00000000         1st digit       Euser pre sensor (FUPS)         2nd digit       Bridge detection switch (BRDSW)         3rd digit       Job paper full sensor (JPFS)         4th digit       Paper full sensor (PFS)         5th digit       Feed sensor (EUS)         6th digit       Duplex sensor (DUS)         7th digit       Eject sensor (ES)         8th digit       Registration sensor (RS)	Item No.			Description
Displays the on-off status of each paper detection switch or sensor on the paper path. Purpose To check if the switches and sensors for paper conveying operate correctly. Method 1. Press the start key. 2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch sensor will be "1". Display Switches and sensors Switch 00000000 1st digit Euser pre sensor (FUPS) 2nd digit Bridge detection switch (BRDSW) 3rd digit Job paper full sensor (JPFS) 4th digit Paper full sensor (PFS) 5th digit Feed sensor (FUS) 6th digit Duplex sensor (DUS) 7th digit Eject sensor (ES) 8th digit Registration sensor (RS)	Displays the on-off status of each paper detection switch or sensor on the paper path. Purpose To check if the switches and sensors for paper conveying operate correctly. Method 1. Press the start key. 2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1". Display Switches and sensors Switch 00000000 1st digit Euser pre sensor (FUPS) 2nd digit Bridge detection switch (BRDSW) 3rd digit Job paper full sensor (JPFS) 4th digit Paper full sensor (PFS) 5th digit Feed sensor (FUS) 7th digit Eject sensor (ES) 8th digit Registration sensor (RS)	U031	Checking s	witches and sen	sors for paper conveying
Displays the on-off status of each paper detection switch or sensor on the paper path. Purpose To check if the switches and sensors for paper conveying operate correctly. Method 1. Press the start key. 2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch sensor will be "1". Display Switches and sensors Switch 00000000 1st digit Euser pre sensor (FUPS) 2nd digit Bridge detection switch (BRDSW) 3rd digit Job paper full sensor (JPFS) 4th digit Paper full sensor (PFS) 5th digit Feed sensor (FUS) 6th digit Duplex sensor (DUS) 7th digit Eject sensor (ES) 8th digit Registration sensor (RS)	Displays the on-off status of each paper detection switch or sensor on the paper path. Purpose To check if the switches and sensors for paper conveying operate correctly. Method 1. Press the start key. 2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1". Display Switches and sensors Switch 00000000 1st digit Euser pre sensor (FUPS) 2nd digit Bridge detection switch (BRDSW) 3rd digit Job paper full sensor (JPFS) 4th digit Paper full sensor (PFS) 5th digit Feed sensor (FUS) 7th digit Eject sensor (ES) 8th digit Registration sensor (RS)		Description		
To check if the switches and sensors for paper conveying operate correctly.          Method         1. Press the start key.         2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch sensor will be "1".         Display       Switches and sensors         Switch       00000000         1st digit       Euser pre sensor (FUPS)         2nd digit       Bridge detection switch (BRDSW)         3rd digit       Job paper full sensor (JPFS)         4th digit       Paper full sensor (FUS)         5th digit       Feed sensor (FUS)         7th digit       Eject sensor (DUS)         7th digit       Registration sensor (RS)	To check if the switches and sensors for paper conveying operate correctly.          Method         1. Press the start key.         2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1".         Display       Switches and sensors         Switch       00000000         1 st digit       Euser pre sensor (FUPS)         2nd digit       Bridge detection switch (BRDSW)         3rd digit       Job paper full sensor (JPFS)         4th digit       Paper full sensor (FS)         6th digit       Duplex sensor (ES)         8th digit       Registration sensor (RS)		Displays the		each paper detection switch or sensor on the paper path.
Method         1. Press the start key.         2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch sensor will be "1".         Display       Switches and sensors         Switch       00000000         1st digit       Euser pre sensor (FUPS)         2nd digit       Bridge detection switch (BRDSW)         3rd digit       Job paper full sensor (JPFS)         4th digit       Paper full sensor (FFS)         5th digit       Feed sensor (FUS)         6th digit       Duplex sensor (DUS)         7th digit       Eject sensor (ES)         8th digit       Registration sensor (RS)	Method         1. Press the start key.         2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1".         Display       Switches and sensors         Switch       00000000         1 st digit       Euser pre sensor (FUPS)         2nd digit       Bridge detection switch (BRDSW)         3rd digit       Job paper full sensor (JPFS)         4th digit       Paper full sensor (PFS)         5th digit       Feed sensor (FUS)         7th digit       Eject sensor (ES)         8th digit       Registration sensor (RS)		•	a awitahaa and a	
<ul> <li>1. Press the start key.</li> <li>2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch sensor will be "1".</li> <li>Display Switches and sensors</li> <li>Switch 00000000</li> <li>1st digit Euser pre sensor (FUPS)</li> <li>2nd digit Bridge detection switch (BRDSW)</li> <li>3rd digit Job paper full sensor (JPFS)</li> <li>4th digit Paper full sensor (PFS)</li> <li>5th digit Eiget sensor (FUS)</li> <li>6th digit Duplex sensor (DUS)</li> <li>7th digit Eiget sensor (ES)</li> <li>8th digit Registration sensor (RS)</li> </ul>	<ol> <li>Press the start key.</li> <li>Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1".</li> <li>Display Switches and sensors</li> <li>Switch 00000000</li> <li>1st digit Euser pre sensor (FUPS)</li> <li>2nd digit Bridge detection switch (BRDSW)</li> <li>3rd digit Job paper full sensor (JPFS)</li> <li>4th digit Paper full sensor (PFS)</li> <li>5th digit Feed sensor (FUS)</li> <li>6th digit Duplex sensor (DUS)</li> <li>7th digit Eject sensor (ES)</li> <li>8th digit Registration sensor (RS)</li> </ol>			le switches and s	sensors for paper conveying operate correctly.
2. Turn each switch or sensor on and off manually to check the status.         When a switch or sensor is detected to be in the ON position, the display for that switch sensor will be "1".         Display       Switches and sensors         Switch       00000000         1st digit       Euser pre sensor (FUPS)         2nd digit       Bridge detection switch (BRDSW)         3rd digit       Job paper full sensor (JPFS)         4th digit       Paper full sensor (FS)         5th digit       Feed sensor (FUS)         6th digit       Duplex sensor (DUS)         7th digit       Eject sensor (ES)         8th digit       Registration sensor (RS)	2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1".         Display       Switches and sensors         Switch       00000000         1st digit       Euser pre sensor (FUPS)         2nd digit       Bridge detection switch (BRDSW)         3rd digit       Job paper full sensor (JPFS)         4th digit       Paper full sensor (FS)         5th digit       Feed sensor (FUS)         7th digit       Eject sensor (ES)         8th digit       Registration sensor (RS)				
When a switch or sensor is detected to be in the ON position, the display for that switch sensor will be "1".         Display       Switches and sensors         Switch       00000000       Switches and sensors         Switch       00000000       1st digit       Euser pre sensor (FUPS)         2nd digit       Bridge detection switch (BRDSW)       3rd digit       Job paper full sensor (JPFS)         3rd digit       Job paper full sensor (PFS)       4th digit       Paper full sensor (PFS)         5th digit       Feed sensor (FUS)       5th digit       Eject sensor (DUS)         7th digit       Eject sensor (ES)       8th digit       Registration sensor (RS)	When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1".         Display       Switches and sensors         Switch       00000000       Switches and sensors         Switch       00000000       1st digit       Euser pre sensor (FUPS)         2nd digit       Bridge detection switch (BRDSW)       3rd digit       Job paper full sensor (JPFS)         3rd digit       Job paper full sensor (PFS)       4th digit       Paper full sensor (PFS)         5th digit       Feed sensor (FUS)       6th digit       Duplex sensor (DUS)         7th digit       Eject sensor (ES)       8th digit       Registration sensor (RS)			-	or on and off manually to check the status
DisplaySwitches and sensorsSwitch00000001st digitEuser pre sensor (FUPS)2nd digitBridge detection switch (BRDSW)3rd digitJob paper full sensor (JPFS)4th digitPaper full sensor (PFS)5th digitFeed sensor (FS)6th digitDuplex sensor (DUS)7th digitEject sensor (ES)8th digitRegistration sensor (RS)	DisplaySwitches and sensorsSwitch00000001st digitEuser pre sensor (FUPS)2nd digitBridge detection switch (BRDSW)3rd digitJob paper full sensor (JPFS)4th digitPaper full sensor (PFS)5th digitFeed sensor (FS)6th digitDuplex sensor (DUS)7th digitEject sensor (ES)8th digitRegistration sensor (RS)				
Switch       00000000         1st digit       Euser pre sensor (FUPS)         2nd digit       Bridge detection switch (BRDSW)         3rd digit       Job paper full sensor (JPFS)         4th digit       Paper full sensor (PFS)         5th digit       Feed sensor (FS)         6th digit       Duplex sensor (DUS)         7th digit       Eject sensor (ES)         8th digit       Registration sensor (RS)	Switch       00000000         1st digit       Euser pre sensor (FUPS)         2nd digit       Bridge detection switch (BRDSW)         3rd digit       Job paper full sensor (JPFS)         4th digit       Paper full sensor (PFS)         5th digit       Feed sensor (FS)         6th digit       Duplex sensor (DUS)         7th digit       Eject sensor (ES)         8th digit       Registration sensor (RS)		sensor w	/ill be "1".	
1st digitEuser pre sensor (FUPS)2nd digitBridge detection switch (BRDSW)3rd digitJob paper full sensor (JPFS)4th digitPaper full sensor (PFS)5th digitFeed sensor (FS)6th digitDuplex sensor (DUS)7th digitEject sensor (ES)8th digitRegistration sensor (RS)	1st digit       Euser pre sensor (FUPS)         2nd digit       Bridge detection switch (BRDSW)         3rd digit       Job paper full sensor (JPFS)         4th digit       Paper full sensor (PFS)         5th digit       Feed sensor (FS)         6th digit       Duplex sensor (DUS)         7th digit       Eject sensor (ES)         8th digit       Registration sensor (RS)			Display	Switches and sensors
2nd digitBridge detection switch (BRDSW)3rd digitJob paper full sensor (JPFS)4th digitPaper full sensor (PFS)5th digitFeed sensor (FS)6th digitDuplex sensor (DUS)7th digitEject sensor (ES)8th digitRegistration sensor (RS)	2nd digitBridge detection switch (BRDSW)3rd digitJob paper full sensor (JPFS)4th digitPaper full sensor (PFS)5th digitFeed sensor (FS)6th digitDuplex sensor (DUS)7th digitEject sensor (ES)8th digitRegistration sensor (RS)		Switch	0000000	
3rd digit       Job paper full sensor (JPFS)         4th digit       Paper full sensor (PFS)         5th digit       Feed sensor (FS)         6th digit       Duplex sensor (DUS)         7th digit       Eject sensor (ES)         8th digit       Registration sensor (RS)	3rd digit       Job paper full sensor (JPFS)         4th digit       Paper full sensor (PFS)         5th digit       Feed sensor (FS)         6th digit       Duplex sensor (DUS)         7th digit       Eject sensor (ES)         8th digit       Registration sensor (RS)			1st digit	Euser pre sensor (FUPS)
4th digit       Paper full sensor (PFS)         5th digit       Feed sensor (FS)         6th digit       Duplex sensor (DUS)         7th digit       Eject sensor (ES)         8th digit       Registration sensor (RS)	4th digit       Paper full sensor (PFS)         5th digit       Feed sensor (FS)         6th digit       Duplex sensor (DUS)         7th digit       Eject sensor (ES)         8th digit       Registration sensor (RS)			2nd digit	Bridge detection switch (BRDSW)
5th digit     Feed sensor (FS)       6th digit     Duplex sensor (DUS)       7th digit     Eject sensor (ES)       8th digit     Registration sensor (RS)	5th digit     Feed sensor (FS)       6th digit     Duplex sensor (DUS)       7th digit     Eject sensor (ES)       8th digit     Registration sensor (RS)			3rd digit	Job paper full sensor (JPFS)
6th digit     Duplex sensor (DUS)       7th digit     Eject sensor (ES)       8th digit     Registration sensor (RS)	6th digit     Duplex sensor (DUS)       7th digit     Eject sensor (ES)       8th digit     Registration sensor (RS)			4th digit	Paper full sensor (PFS)
7th digit     Eject sensor (ES)       8th digit     Registration sensor (RS)	7th digit     Eject sensor (ES)       8th digit     Registration sensor (RS)			5th digit	Feed sensor (FS)
8th digit     Registration sensor (RS)       Completion	8th digit Registration sensor (RS) Completion			6th digit	Duplex sensor (DUS)
Completion	Completion			7th digit	Eject sensor (ES)
Completion	Completion				
				8th digit	Registration sensor (RS)
			Completion		

em No.		Description	
U032	Checking the operation	on of the clutches	
	Description		
	Turns each clutch on.		
	Purpose		
	To check the operation	of each clutch.	
	Method		
	<ol> <li>Press the start key.</li> <li>Select the clutch to</li> </ol>	he operated	
	3. Press the start key.	•	
	Display	Description	
	Feed	Paper feed clutch (PFCL) is turned on	
	Regist	Registration clutch (RCL) is turned on	
	Duplex	Duplex clutch (DUCL) is turned on	
	Middle	Middle clutch (MCL) is turned on	
	DLP	Developer stop clutch (DEVSCL) is turned on	
	4. Droce the step key		
	4. Press the stop key.		
	Completion		
	-	screen for selecting a maintenance item No. is displayed.	
	Press the stop key. The		
U033	-		
U033	Press the stop key. The Checking the operation		
U033	Press the stop key. The Checking the operation Description Turns each solenoid on	on of the solenoids	
U033	Press the stop key. The Checking the operation Description Turns each solenoid on Purpose	on of the solenoids	
U033	Press the stop key. The Checking the operation Description Turns each solenoid on	on of the solenoids	
U033	Press the stop key. The Checking the operation Description Turns each solenoid on Purpose To check the operation Method	on of the solenoids	
U033	Press the stop key. The Checking the operation Description Turns each solenoid on Purpose To check the operation Method 1. Press the start key.	on of the solenoids of each solenoid.	
U033	Press the stop key. The Checking the operation Description Turns each solenoid on Purpose To check the operation Method	on of the solenoids of each solenoid. to be operated.	
U033	Press the stop key. The <b>Checking the operation</b> <b>Description</b> Turns each solenoid on <b>Purpose</b> To check the operation <b>Method</b> 1. Press the start key. 2. Select the solenoid	on of the solenoids of each solenoid. to be operated.	
U033	Press the stop key. The Checking the operation Description Turns each solenoid on Purpose To check the operation Method 1. Press the start key. 2. Select the solenoid 3. Press the start key.	on of the solenoids of each solenoid. to be operated. The operation starts.	
U033	Press the stop key. The Checking the operation Description Turns each solenoid on Purpose To check the operation Method 1. Press the start key. 2. Select the solenoid 3. Press the start key. Display	on of the solenoids of each solenoid. to be operated. The operation starts. Description	
U033	Press the stop key. The Checking the operation Description Turns each solenoid on Purpose To check the operation Method 1. Press the start key. 2. Select the solenoid 3. Press the start key. Display MPT	on of the solenoids of each solenoid. to be operated. The operation starts. Description MP solenoid (MPSOL) is turned on	
U033	Press the stop key. The Checking the operation Description Turns each solenoid on Purpose To check the operation Method 1. Press the start key. 2. Select the solenoid 3. Press the start key. Display MPT Eject 4. Press the stop key.	on of the solenoids of each solenoid. to be operated. The operation starts. Description MP solenoid (MPSOL) is turned on	
U033	Press the stop key. The Checking the operation Description Turns each solenoid on Purpose To check the operation Method 1. Press the start key. 2. Select the solenoid 3. Press the start key. Display MPT Eject 4. Press the stop key. Completion	on of the solenoids of each solenoid. to be operated. The operation starts. Description MP solenoid (MPSOL) is turned on Feedshift solenoid (FSSOL) is turned on	
U033	Press the stop key. The Checking the operation Description Turns each solenoid on Purpose To check the operation Method 1. Press the start key. 2. Select the solenoid 3. Press the start key. Display MPT Eject 4. Press the stop key. Completion	on of the solenoids of each solenoid. to be operated. The operation starts. Description MP solenoid (MPSOL) is turned on	
U033	Press the stop key. The Checking the operation Description Turns each solenoid on Purpose To check the operation Method 1. Press the start key. 2. Select the solenoid 3. Press the start key. Display MPT Eject 4. Press the stop key. Completion	on of the solenoids of each solenoid. to be operated. The operation starts. Description MP solenoid (MPSOL) is turned on Feedshift solenoid (FSSOL) is turned on	
U033	Press the stop key. The Checking the operation Description Turns each solenoid on Purpose To check the operation Method 1. Press the start key. 2. Select the solenoid 3. Press the start key. Display MPT Eject 4. Press the stop key. Completion	on of the solenoids of each solenoid. to be operated. The operation starts. Description MP solenoid (MPSOL) is turned on Feedshift solenoid (FSSOL) is turned on	
U033	Press the stop key. The Checking the operation Description Turns each solenoid on Purpose To check the operation Method 1. Press the start key. 2. Select the solenoid 3. Press the start key. Display MPT Eject 4. Press the stop key. Completion	on of the solenoids of each solenoid. to be operated. The operation starts. Description MP solenoid (MPSOL) is turned on Feedshift solenoid (FSSOL) is turned on	

Item No.			Descriptio	n		
U034	Adjusting the prin	t start tim	ing			
	-	edge regis	stration or center line.			
	Purpose Make the adjustme original.	nt if there is	s a regular error betwee	n the leading	edges of	the copy image an
	Make the adjustme original.	nt if there i	s a regular error betwee	en the center	lines of the	e copy image and
	Method 1. Press the start 2. Select the item		sted.			
	Displa	ıy		Descriptio	n	
	LSU Out Top		Leading edge registrat	ion adjustmer	nt	
	LSU Out Left		Center line adjustment			
	<ol> <li>Press the start</li> <li>Press the syste</li> <li>Select the item</li> </ol>	m menu ke	ey.	Pottin -	Im:4:-1	Chen za in
	Display		Description	Setting range	Initial setting	Change in value per step
	MPT(L)		ed from MP tray ge size paper is used)	-128 to 127	0	0.1 mm
	Cassette(L)		ed from cassette ge size paper is used)	-128 to 127	0	0.1 mm
	Duplex(L)		node (second) rge size paper is used)	-128 to 127	0	0.1 mm
	Large size: 218	mm or mo	re in width of paper.			





U035       Setting the printing area for folio paper         Description       Changes the printing area for copying on folio paper.         Purpose       To prevent cropped images on the trailing edge or left/right side of copy paper actual printing area for folio paper.         Destring       Destring	
Changes the printing area for copying on folio paper. <b>Purpose</b> To prevent cropped images on the trailing edge or left/right side of copy paper actual printing area for folio paper.	
Changes the printing area for copying on folio paper. <b>Purpose</b> To prevent cropped images on the trailing edge or left/right side of copy paper actual printing area for folio paper.	
To prevent cropped images on the trailing edge or left/right side of copy paper actual printing area for folio paper.	
actual printing area for folio paper.	or by cotting the
	er by setting the
Setting	
1. Press the start key.	
<ol> <li>Select the item to be set.</li> <li>Change the setting value using the cursor left/right keys.</li> </ol>	
Display Description Setting range	Initial setting
	330
	210
4. Press the start key. The value is set.	
<b>Completion</b> Press the stop key. The screen for selecting a maintenance item No. is displ	laved
U037 Checking the operation of the fan motors	
Description	
Drives each fan motor.	
Purpose	
To check the operation of each fan motor.	
Method	
1. Press the start key.	
2. Select the fan motor to be operated.	
3. Press the start key. The operation starts.	
Display Description	
All All fan motors are turned on	
Low Power Power source fan motor (PSFM) is turned on	
Container Container fan motor (CFM) is turned on	
IH Coil IH Coil fan motor (IHCFM) is turned on	
IH CoilIH Coil fan motor (IHCFM) is turned onLSU CoolingLSU Cooling fan motor (LSUFM) is turned on	
IH Coil IH Coil fan motor (IHCFM) is turned on	
IH CoilIH Coil fan motor (IHCFM) is turned onLSU CoolingLSU Cooling fan motor (LSUFM) is turned on	
IH CoilIH Coil fan motor (IHCFM) is turned onLSU CoolingLSU Cooling fan motor (LSUFM) is turned onIH EdgeIH fan motor (IHFM) is turned onTo stop operation, press the stop key.	
IH CoilIH Coil fan motor (IHCFM) is turned onLSU CoolingLSU Cooling fan motor (LSUFM) is turned onIH EdgeIH fan motor (IHFM) is turned on	
IH Coil       IH Coil fan motor (IHCFM) is turned on         LSU Cooling       LSU Cooling fan motor (LSUFM) is turned on         IH Edge       IH fan motor (IHFM) is turned on         To stop operation, press the stop key.         Completion	
IH Coil       IH Coil fan motor (IHCFM) is turned on         LSU Cooling       LSU Cooling fan motor (LSUFM) is turned on         IH Edge       IH fan motor (IHFM) is turned on         To stop operation, press the stop key.         Completion	

Item No.		Description		
U051	Adjusting the defle	ction in the paper		
	Purpose	n in the paper at the registration roller if the leading edge of the copy image		s randomly, or if t
	Adjustment 1. Press the start ke 2. Press the system	ey. n menu key. and press the start key to make a te n menu key.	st copy.	
	Display	Description	Setting range	Initial setting
	MPT	Paper feed from MP tray	-30 to 20	0
	Cassette	Paper feed from cassette 1	-30 to 20	0
	PF	Paper feed from paper feeder	-30 to 20	0
	Duplex	Duplex mode (second)	-30 to 20	0
		Original Copy example 1	Copy example 2	
		Figure 1-3-4		
	7. Press the start ke	ey. The value is set.		
	<b>Completion</b> Press the stop key. T	he indication for selecting a mainten	ance item No. appe	ars.

ct. Initial setting
Initial setting
setting
setting
)
5
5
)
5
0
)
)

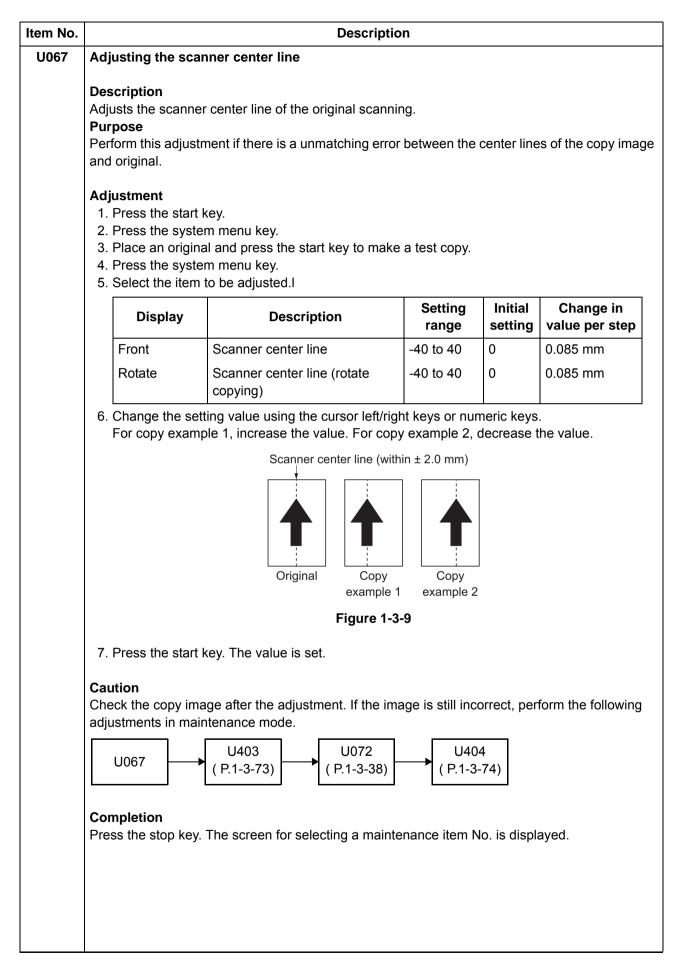
Item No.	Description						
U053	Adjustment						
	1. Press the system menu key.						
	2. Press the start key to output an A3/Ledger VTC pattern.						
	B						
	A Correct values for an A3/Ledger output are:						
	$A = 350 \pm 1.4 \text{ mm}$						
	B = 250 ± 1.0 mm						
	Figure 1-3-5						
	3. Press the system menu key.						
	4. A: Magnification in the auxiliary scanning direction						
	1) Select [Main].						
	2) Change the setting value using the cursor left/right keys or numeric keys.						
	Increasing the setting makes the image longer in the auxiliary scanning direction, and decreasing it makes the image shorter in the auxiliary scanning direction.						
	B: Magnification in the main scanning direction						
	1) Select [Polygon].						
	2) Change the setting value using the cursor left/right keys or numeric keys.						
	Increasing the setting makes the image shorter in the main scanning direction, and						
	decreasing it makes the image longer in the main scanning direction. 5. Press the start key. The value is set.						
	Completion						
	Press the stop key. The indication for selecting a maintenance item No. appears.						

tem No.	Description						
U063	Adjusting the shading position						
	Description						
	Description Changes the shading position of the scanner.						
	Purpose	3					
	Used when the white line continue to appear longitudinally on the image after the shading plate						
	cleaned.						
		or stains inside the shading plate ged so that shading is possible wi	•	•	• •		
	tion should be chan	iged so that shading is possible w	ithout being a	anected by			
	Setting						
	1. Press the start	-					
	2. Select [Position	-					
	3. Change the set	ting value using the cursor left/righ	nt keys or nur	meric keys			
	Display	Description	Setting	Initial	Change in		
			range	setting	value per step		
	Position	Shading position	-6 to 18	0	0.091 mm		
	-	value moves the shading position	toward the m	achine left	, and decreasing		
	moves the posit	tion toward the machine right.					
	4. Press the start	key. The value is set.					
	copying mode (whic	ance item is being executed, copyi ch is activated by pressing the sys	-	-	vailable in interrup		
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).	·		
	While this maintena copying mode (whice <b>Completion</b>		tem menu ke	ey).	·		
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).	·		
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).	·		
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).	·		
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).	·		
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).	·		
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).	·		
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).	·		
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).	·		
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).			
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).			
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).			
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).			
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).			
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).			
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).			
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).			
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).			
	While this maintena copying mode (whice <b>Completion</b>	ch is activated by pressing the sys	tem menu ke	ey).			

tem No.	Description							
U065	Adjusting the scanner magnification							
	DescriptionAdjusts the magnification of the original scanning.PurposeMake the adjustment if the magnification in the main scanning direction is incorrect.							
	Make the adjustment if the magnification in the auxiliary scanning direction is incorrect.							
	Caution							
		ation of the scanner in the followin	-					
	U053 (P.1-3-26)	U065 main scan- ning direction U065 auxiliary scan- ning direction	∪067 ( P.1-3-		U070 ( P.1-3-35)			
	Method							
	1. Press the start k 2. Press the system	•						
		I and press the start key to make	a test copy.					
	4. Press the system	-						
	5. Select the item to be adjusted.							
	Display	Description	Setting range	Initial setting	Change in value per step			
	Y Scan Zoom	Scanner magnification in the main scanning direction	-75 to 75	0	0.02 %			
	X Scan Zoom	Scanner magnification in the auxiliary scanning direction	-125 to 125	0	0.02 %			
	Adjustment: [V Seen Zeem]							
	Adjustment: [Y Scan Zoom] 1. Change the setting value using the cursor left/right keys or numeric keys.							
	For copy examp	le 1, increase the value. For copy	/ example 2, c	lecrease t	he value.			
		Original Copy example 1	Copy example 2					
		Figure 1-3-	-6					
	2. Droop the start	_	-6					
	2. Press the start k	<b>Figure 1-3-</b> key. The value is set.	-6					
	2. Press the start k	_	-6					
	2. Press the start k	_	-6					
	2. Press the start k	_	-6					

Item No.	Description					
U065	Adjustment: [X Scan Zoom]					
	1. Change the setting value using the cursor left/right keys or numeric keys.					
	For copy example 1, increase the value. For copy example 2, decrease the value.					
	Original Copy Copy					
	example 1 example 2					
	Figure 1-3-7					
	2. Press the start key. The value is set.					
	<b>Completion</b> Press the stop key. The screen for selecting a maintenance item No. is displayed.					

n No.	Description						
066	Adjusting the scanner leading edge registration						
	Description Adjusts the scanner leading edge registration of the original scanning. Purpose Make the adjustment if there is a regular error between the leading edges of the copy image and original.						
	Adjustment 1. Press the start 2. Press the syst 3. Place an origin 4. Press the syst 5. Select the item	em menu key. nal and press the start key to make em menu key.	a test copy.				
	Display	Description	Setting range	Initial setting	Change in value per step		
	Front	Scanner leading edge registra- tion	-45 to 45	0	0.091 mm		
	Rotate	Scanner leading edge registra- tion (rotate copying)	-45 to 45	0	0.100mm		
		Scanner leading edge regis	Copy example 2	± 2.5 mm)			
		Figure 1-3·	·8				
	Caution		-		form the following		
	Completion	U403 U071 (P.1-3-73) (P.1-3-36)	U40 ( P.1-3-				
	Press the stop key	n. The screen for selecting a mainter n. The screen for selecting a	nance item N	lo. is displa	ayed.		



em No.	Description					
J068	Adjusting the scanning position for originals from the DP					
	<ul> <li>Description</li> <li>Adjusts the position for scanning originals from the DP. Performs the test copy at the four scanning positions after adjusting.</li> <li>Purpose</li> <li>Used when the image fogging occurs because the scanning position is not proper when the DP used. Run U071 to adjust the timing of DP leading edge when the scanning position is change</li> <li>Setting</li> </ul>					
	1. Press the start	key.l	1		T	
	Display	Description	Setting range	Initial setting	Change in value per step	
	DP Read	Starting position adjustment for scanning originals	-55 to 55	0	0.091 mm	
	Black Line	Scanning position for the test copy originals	0 to 3	0	-	
	<ol> <li>8. Set the original</li> <li>9. Press the start</li> <li>10. Perform the test that no black line</li> <li>Completion</li> </ol>	key. The value is set. (the one which density is known) key. Test copy is executed. st copy at each scanning position w ne appears and the image is normal . The screen for selecting a mainte	with the settir ally scanned	ng value fro	om 0 to 3 and che	

Item No.	Description					
U070	Adjusting the DP magnification					
	Purpose	inal scanning speed. ment if the magnification is incorre	ect in the auxil	iary scanr	ning direction when	
	Adjustment 1. Press the start 2. Press the syste 3. Place an origina 4. Press the syste 5. Select the item	m menu key. al on the DP and press the start ke m menu key.	ey to make a t	est copy.		
	Display	Description	Setting range	Initial setting	Change in value per step	
	Y Scan Zoom	Magnification in the main scan- ning direction	-125 to 125	0	0.02 %	
	X Scan Zoom	Magnification in the auxiliary scanning direction	-125 to 125	0	0.02 %	
	-	ting value using the cursor left/righ ole 1, increase the value. For copy original Copy example 1 Figure 1-3-	example 2, or Copy example 2	-		

Item No.	Description
U070	2. Press the start key. The value is set.
	Adjustment: [X Scan Zoom]
	1. Change the setting value using the cursor left/right keys or numeric keys.
	For copy example 1, increase the value. For copy example 2, decrease the value.
	Original Copy Copy
	example 1 example 2
	Figure 1-3-11
	2. Press the start key. The value is set.
	<b>Caution</b> Check the copy image after the adjustment. If the image is still incorrect, perform the following adjustments in maintenance mode.
	U070 U071 U404 (P.1-3-36) (P.1-3-74)
	<b>Completion</b> Press the stop key. The screen for selecting a maintenance item No. is displayed.

Item No.		Descriptio	on						
U071	Adjusting the DP	scanning timing							
	Description								
	-	jinal scanning timing.							
	Purpose								
	Make the adjustme	nt if there is a regular error betwe	en the leading	g or trailing	edges of the orig				
	nal and the copy in	hage when the DP is used.							
	Method								
	1. Press the start	-							
	2. Press the syste	-							
	-	al on the DP and press the start k	ey to make a	test copy.					
	<ol> <li>Press the syste</li> <li>Select the item</li> </ol>	-							
	Display	Description	Setting range	Initial setting	Change in value per step				
	Front Head	Leading edge registration (first side)	-80 to 80	0	0.119 mm				
	Front Tail	Trailing edge registration (first side)	-80 to 80	0	0.119 mm				
	Back Head	Leading edge registration (second side)	-80 to 80	0	0.119 mm				
	Back Tail	Trailing edge registration (second side)	-80 to 80	0	0.119 mm				
	1. Change the set	ting edge registration ting value using the cursor left/rig ple 1, increase the value. For copy Original Copy example 1 Figure 1-3-	y example 2,						
	2. Press the start	key. The value is set.							
	adjustment. Check the copy ima adjustments in mai	ljusted, check the second side and age after the adjustment. If the ima ntenance mode.	-		-				
	U071	(P.1-3-74)							

Item No.	Description
U071	Adjustment: Trailing edge registration
	1. Change the setting value using the cursor left/right keys or numeric keys.
	For copy example 1, increase the value. For copy example 2, decrease the value.
	Original Original Copy example 1 example 2
	Figure 1-3-13
	2. Press the start key. The value is set.
	<b>Caution</b> If the first side is adjusted, check the second side and if adjustment is required, carry out the adjustment. Check the copy image after the adjustment. If the image is still incorrect, perform the following adjustments in maintenance mode.
	U071 U404 (P.1-3-74)
	<b>Completion</b> Press the stop key. The screen for selecting a maintenance item No. is displayed.

Item No.			Descriptio	n		
U072	Adj	usting the DP o	center line			
	Adji <b>Pur</b> Per	pose	g start position for the DP original nent if there is a regular error betwo is used.		ers of the o	riginal and the copy
	1. 2. 3. 4.	ustment Press the start I Press the syste Place an origina Press the syste Select the item	m menu key. al on the DP and press the start ke m menu key.	ey to make a t	est copy.	
		Display	Description	Setting range	Initial setting	Change in value per step
		Front	DP center line (first side)	-80 to 80	0	0.119 mm
		Back	DP center line (second side)	-80 to 80	0	0.119 mm
			Original Copy example 1	Copy t example 2		
			Figure 1-3-	14		
	7.	Press the start I	key. The value is set.			
	If th adju Che adju	ustment. eck the copy ima ustments in mair U072 mpletion	justed, check the second side and age after the adjustment. If the ima atenance mode. U404 ( P.1-3-74) The screen for selecting a mainte	age is still inco	brrect, per	form the following

tem No.			Description		
U074	Adjusting	the DP inp	out light luminosity		
	Purpose	uminosity co	prrection for scanning originals from the D y if a spotted background appears when a		is scanned fror
		the start key			
		e the setting Display	g value using the cursor left/right keys or Description	numeric keys. Setting range	Initial set- ting
	Coet	fficient	DP input light luminosity correction	0 to 3	0
	copying m	ode (which	te item is being executed, copying from a is activated by pressing the system menu		ailable in interru
	copying m	ode (which on		ı key).	
	copying m	ode (which on	is activated by pressing the system menu	ı key).	
	copying m	ode (which on	is activated by pressing the system menu	ı key).	
	copying m	ode (which on	is activated by pressing the system menu	ı key).	
	copying m	ode (which on	is activated by pressing the system menu	ı key).	
	copying m	ode (which on	is activated by pressing the system menu	ı key).	
	copying m	ode (which on	is activated by pressing the system menu	ı key).	
	copying m	ode (which on	is activated by pressing the system menu	ı key).	

em No.		Descriptio	n
U089	Outputting a MIP-PG pa	ttern	
	Purpose		e machine. sting image printing, using MIP-PG patter
	Method		
	1. Press the start key.	ttorp to be output and proce	the start key
	Display	ttern to be output and press	-
	256GRADATION	256-gradation PG	To check the gradation reproducibility
	COLOR BELT	Four color belts PG	To check the developing state and the engine section ID
	GRAY(C)	Cyan PG	To check the drum quality
	GRAY(M)	Magenta PG	To check the drum quality
	GRAY(Y)	Yellow PG	To check the drum quality
	GRAY(K)	Black PG	To check the drum quality
	WHITE	Blank paper PG	To check the drum quality
	GRADATION GRAY	5-graduation gray PG	To check for vertical lines on the laser scanner unit
	Completion	MIP-PG pattern is output.	enance item No. is displayed.
	Press the stop key. The s	creen for selecting a mainte	nance item No. is displayed.

em No.			Description							
U099	Adjusting original s	ize dete	ction							
	Description         Checks the operation of the original size sensor and sets the sensing threshold value.         Purpose         To adjust the sensitivity of the sensor and size judgement time if the original size sensor tions frequently due to incident light or the like.									
	Method <ol> <li>Press the start key.</li> <li>Select the item. The screen for executing each item is displayed.</li> </ol>									
	Display		-	Description						
	Data1		Displaying original size se	-	sion dat	ta				
	B/W Level1		B/W LEVEL setting origin Setting original size judgr		thresho	old value				
	Data2		Displaying original size se (when DP is installed)	ensor transmis	sion dat	ta				
	is displayed.	l and clos	se the original cover or DP.		sensor	transmission dat				
	Display		Description							
	Original Area (d		Detected original width size (dot)							
	Original Area (m	ım)	Detected original width size (mm)							
	Size SW L		Displays the original size sensor (OSS) ON/OFF							
	Setting: [B/W Level 1. Select an item to 2. Change the settin Display	be set.	using the cursor left/right k <b>Description</b>	eys or numeric Setting range	: keys.l	Initial setting				
	Original 1	Origina	al threshold value	0 to 255	40	50*				
	Original 2	Origina	al threshold value	0 to 255	30	50*				
	Original 2	Origina	al threshold value	0 to 255	20	50*				
	Light Source	Light s	ource threshold value	0 to 255	19	49*				
	* : When DP is i 3. Press the start ke		alue is set.							
	Completion Press the stop key. T	he scree	en for maintenance item Nc	o. is displayed.						

Item No. U100		Description		
U100	Setting the main I	nigh voltage		
	Description			
	Performs main cha	rging.		
	Purpose To check main cha	raina		
		rging.		
	Setting: [IDC Bias			
	1. Select an item	to be set. tting value using the cursor left/right keys or ı	numeric kevs l	
			Setting	Initial
	Display	Description	range	setting
	1st	Set value of the MC DC bias (Yellow)	0 to 250	145
	2nd	Set value of the MC DC bias (Cyan)	0 to 250	145
	3rd	Set value of the MC DC bias (Magenta)	0 to 250	145
	4th	Set value of the MC DC bias (Black)	0 to 250	145
	No. is displayed.			
	No. Is displayed.			
	No. Is displayed.			maintenanc
	No. Is displayed.			
	No. Is displayed.			
	No. Is displayed.			
	No. Is displayed.			
	No. Is displayed.			
	No. Is displayed.			
	No. Is displayed.			
	No. Is displayed.			

m No.			Description				
101	Setting the voltage	for the p	primary transfer				
	<b>Description</b> Sets the control voltage for the primary transfer. <b>Purpose</b> To change the setting when any density problems, such as too dark or light, occur.						
	Method <ol> <li>Press the start key.</li> <li>Select the item. The screen for executing each item is displayed.</li> </ol>						
	Display		-	scription			
	Base		Standard value				
	1st side		Correction value of single-si	de printing			
	2nd side		Correction value of duplex p	printing			
	B/W		Correction value of monochi	rome printing			
	<ul><li>Setting: [Base]</li><li>1. Select the item to be set.</li><li>2. Change the setting value using the cursor left/right keys or numeric keys.</li></ul>						
	Display		Description	Setting range	Initial setting		
	Full	Full s	peed printing	0 to 100	55		
	Half	Halfs	speed printing	0 to 100	35		
	3. Press the start ke Setting: [1st side/02 1. Select the item to 2. Change the settin Display	nd side		s or numeric keys. Setting range	Initial setting		
	1st	Corre	ection value (Yellow)	-50 to 50	0/-3		
	2nd		ection value (Cyan)	-50 to 50	15/-3		
	3rd		ection value (Magenta)	-50 to 50	5/-3		
	4th		ection value (Black)	-50 to 50	20/-3		
	3. Press the start ke	y. The v	alue is set.	1	1		

tem No.		Description		
U101	Setting: [B/W] 1. Select the item t			
	2. Change the setti Display	ing value using the cursor left/right keys Description	s or numeric keys. Setting range	Initial setting
	Value	Correction value	-50 to 50	10
		ey. The value is set.		<u> </u>
	Completion Press the stop key.	The screen for selecting a maintenance	e item No. is displaye	ed.

n No.			Description					
106	Setting the voltage for	or the s	secondary transfer					
	<b>Description</b> Sets the control voltage for the secondary transfer. <b>Purpose</b> To change the setting when any density problems, such as too dark or light, occur.							
	Mathad			-				
	Method 1. Press the start key							
	2. Select the item. Th	ie scree	en for executing each item is	displayed.				
	Display		De	escription				
	Color		Correction value of color pr	rinting				
	B/W		Correction value of monoch	nrome printing				
	Method:[Color]							
		le scre	en for executing each item is					
	Display			escription				
	Light/Normal1		Weight of paper (light to us					
	Normal2/3		Weight of paper (usual 2 to	93)				
	Heavy1		Weight of paper (heavy 1)					
	Heavy2-3		Weight of paper (heavy 2 to 3)					
	OHP		Kind of paper (OHP)					
	Coated		Kind of paper (Coated pape	er)				
	Method: [Light/Normal1 / Normal2/3 / Heavy1 / Heavy2-3] 1. Select the item. The screen for executing each item is displayed.							
	Display		Description					
	1st side		Correction value of single-s	side printing				
	2nd side		Correction value of duplex printing					
		be set.	using the cursor left/right ke	ys or numeric keys	S.			
	Display		Description	range	setting			
	Width<160	width	of paper<160	0 to 200	60/60/45/40 80/82/55/40			
	160<=Width<220	160<	= width of paper <220	0 to 200	53/55/41/35 47/52/39/32			
	220<=Width	220<	= width of paper	0 to 200	45/48/38/30 43/45/35/27			
	3. Press the start key	. The v	alue is set.					

	Description					
;		ting:[OHP/Coated] Select the item to b				
	2.	Change the setting value		sing the cursor left/right keys or numeric keys.		
		Display		Description	Setting range	Initial setting
		Width<160	width	of paper<160	0 to 200	35/45
		160<=Width<220	160<:	= width of paper <220	0 to 200	35/35
		220<=Width	220<:	= width of paper	0 to 200	25/30
	3.	Press the start key.	The v	alue is set.		
		:hod:[B/W] Select the item. The	e scree	en for executing each item is o	displayed.	
		Display		-	scription	
		Light/Normal1		Weight of paper (light to usu	al 1)	
		Heavy1		Weight of paper (heavy 1)		
N		Heavy2-3		Weight of paper (heavy 2 to	3)	
	١.	Select the item. The	e scree	en for executing each item is o	displayed.	
	1.		e scree	-		
	1.	Display	e scree	Des	scription	
	Ι.	Display	e scree	-	scription de printing	
	Set	Display 1st side 2nd side ting:[1st side/2nd side Select the item to b	side] e set.	Des Correction value of single-sid	scription de printing rinting s or numeric keys.	
	Set	Display 1st side 2nd side ting:[1st side/2nd side Select the item to b Change the setting Display	<b>side]</b> e set. value	Des Correction value of single-sid Correction value of duplex pr using the cursor left/right keys Description	scription de printing rinting	
	Set	Display 1st side 2nd side ting:[1st side/2nd select the item to b Change the setting	<b>side]</b> e set. value	Des Correction value of single-sic Correction value of duplex p using the cursor left/right keys	scription de printing rinting s or numeric keys. Setting	
	Set	Display 1st side 2nd side ting:[1st side/2nd side Select the item to b Change the setting Display	side] e set. value width	Des Correction value of single-sid Correction value of duplex pr using the cursor left/right keys Description	scription de printing rinting s or numeric keys. Setting range	setting 55/45/40
	Set	Display 1st side 2nd side ting:[1st side/2nd side Select the item to b Change the setting Display Width<160	side] e set. value width 160<	Des Correction value of single-sid Correction value of duplex pr using the cursor left/right keys Description of paper<160	scription de printing rinting s or numeric keys. Setting range 0 to 200	setting 55/45/40 65/55/38 50/41/32
	<b>Set</b> 1. 2.	Display 1st side 2nd side ting:[1st side/2nd side Select the item to b Change the setting Display Width<160 160<=Width<220	side] e set. value width 160<: 220<:	Description of paper<160 ewidth of paper	scription de printing rinting s or numeric keys. Setting range 0 to 200 0 to 200	setting 55/45/40 65/55/38 50/41/32 50/40/30 40/38/27
	<b>Set</b> 1. 2.	Display 1st side 2nd side ting:[1st side/2nd side Select the item to b Change the setting Display Width<160 160<=Width<220 220<=Width Press the start key.	side] e set. value width 160<: 220<:	Description of paper<160 ewidth of paper	scription de printing rinting s or numeric keys. Setting range 0 to 200 0 to 200	setting 55/45/40 65/55/38 50/41/32 50/40/30 40/38/27
	Set: 1. 2. 3.	Display 1st side 2nd side ting:[1st side/2nd side ting:[1st side/2nd side/2nd side Select the item to b Change the setting Display Width<160 160<=Width<220 220<=Width Press the start key. mpletion	side] e set. value width 160< 220< The v	Description of paper<160 ewidth of paper	scription de printing rinting s or numeric keys. Setting range 0 to 200 0 to 200 0 to 200 0 to 200	65/55/38 50/41/32 50/40/30 40/38/27 3736/25

tem No.	Description						
107	Setting the voltage for the intermediate transfer cleaning						
	DescriptionSets the control voltage for the intermediate transfer cleaning.PurposeTo change the setting when the offset by a defective cleaning of the transfer belt is generate						
	Method 1. Press the start ke 2. Select the item. T		en for executing each item is disp	laved.			
	Display		Descri				
	Belt(A)		Correction value of belt A				
	Belt(B)		Correction value of belt B				
	Belt(C)		Correction value of belt C				
			using the cursor left/right keys or	numeric keys.	Initial		
	Display		Description	range	setting		
	Full	Full s	peed printing of color	0 to 200	-		
	Half	Half s	speed printing of color	0 to 200	-		
	3/4	75%	of full speed printing of color	0 to 200	-		
	B/W Full	Full s	peed printing of monochrome	0 to 200	-		
	B/W Half	Halfs	speed printing of monochrome	0 to 200	-		
	B/W 3/4		5% of full speed printing of 0 to 200 onochrome		-		
	3. Press the start ke	y. The v	alue is set.				
	Completion Press the stop key. The screen for selecting a maintenance item No. is displayed.						

tting separation s	Description						
Setting separation shift bias							
Description							
Adjusts output of separation shift bias and ON/OFF timing.							
Purpose							
To set when the separated malfunction of the paper occurs.							
1. Press the start key.							
<b></b>		Г					
			-				
-							
-							
Titling		Setting of the separation timin	ig				
the d							
<b>Method</b> 1. Select the item. The screen for executing each item is displayed							
1st side		-					
2nd side							
Select the item to		using the cursor left/right keys	or numeric keys.				
Display		Description	Setting range	Initial setting			
	for the	e leading edge on paper	0 to 20				
Add Normal				-			
Add Normal Lead							
	Adjus	tment of the ON Timing 1	-100 to 100	-			
Lead	-	tment of the ON Timing 1 tment of the ON Timing 2	-100 to 100 -100 to 100	-			
Lead On Timing 1	Adjus	-		-			
	ethod Press the start ke Select the item. T Display Light/Normal1 Normal2/3 Heavy1 Coated Timing ethod Select the item. T Display 1st side 2nd side tting Select the item to Change the settin	ethod Press the start key. Select the item. The scree Display Light/Normal1 Normal2/3 Heavy1 Coated Timing ethod Select the item. The scree Display 1st side 2nd side tting Select the item to be set. Change the setting value	ethod         Press the start key.         Select the item. The screen for executing each item is di         Display       Desc         Light/Normal1       Weight of paper (light to usua         Normal2/3       Weight of paper (usual 2 to 3)         Heavy1       Weight of paper (heavy 1)         Coated       Kind of paper (Coated paper)         Timing       Setting of the separation timin         ethod       Select the item. The screen for executing each item is di         Display       Desc         1st side       Correction value of single-side         2nd side       Correction value of duplex pri         tting       Select the item to be set.         Change the setting value using the cursor left/right keys	ethod         Press the start key.         Select the item. The screen for executing each item is displayed.         Display       Description         Light/Normal1       Weight of paper (light to usual 1)         Normal2/3       Weight of paper (usual 2 to 3)         Heavy1       Weight of paper (heavy 1)         Coated       Kind of paper (Coated paper)         Timing       Setting of the separation timing         ethod       Select the item. The screen for executing each item is displayed.         Display       Description         1st side       Correction value of single-side printing         2nd side       Correction value of duplex printing         tting       Select the item to be set.         Change the setting value using the cursor left/right keys or numeric keys.			

em No.							
U111	Checking the drum drive time						
	Description						
	-	e time for checking a figure, which is used as a reference when correctin					
	the high voltage based	d on time.					
	Purpose To check the drum sta						
	TO CHECK the druff sta	lus.					
	Method						
	1. Press the start key						
		ne drum drive time is displayed.					
	Display	Description					
	C	Cyan drum drive time					
	Μ	Magenta drum drive time					
	Y	Yellow drum drive time					
	к	Black drum drive time					
		I					
	Setting						
	-	drive time using the cursor left/right keys or numeric keys.					
	2. Press the start key	γ. The drum drive time is set.					
	Completion Press the stop key. Th	ne screen for selecting a maintenance item No. is displayed.					
	-	e screen for selecting a maintenance item No. is displayed.					
	-	e screen for selecting a maintenance item No. is displayed.					
	-	e screen for selecting a maintenance item No. is displayed.					
	-	e screen for selecting a maintenance item No. is displayed.					
	-	e screen for selecting a maintenance item No. is displayed.					
	-	e screen for selecting a maintenance item No. is displayed.					
	-	e screen for selecting a maintenance item No. is displayed.					
	-	e screen for selecting a maintenance item No. is displayed.					
	-	he screen for selecting a maintenance item No. is displayed.					
	-	e screen for selecting a maintenance item No. is displayed.					
	-	e screen for selecting a maintenance item No. is displayed.					
	-	e screen for selecting a maintenance item No. is displayed.					
	-	e screen for selecting a maintenance item No. is displayed.					
	-	e screen for selecting a maintenance item No. is displayed.					

Item No.		Description				
U118	Displaying the drum history					
	Description Displays the past record of machine number and the drum counter. Purpose To check the count value of machine number and the drum counter.					
	Method 1. Press the start key. The each history displayed by five cases.					
	Display	Description				
	С	Cyan drum past record				
	М	Magenta drum past record				
	Y	Yellow drum past record				
	К	Black drum past record				
	2. The history of a machine cases.T	number and a drum counter for each color is displayed by three				
	Display	Description				
	Machine History 1 - 3	Historical records of the machine number				
	Cnt History 1 - 3	Historical records of drum counter				
		en for selecting a maintenance item No. is displayed.				
U123	Displaying the transfer bel	t unit history				
	<b>Description</b> Displays the past record of machine number and the transfer belt unit counter. <b>Purpose</b> To check the count value of machine number and the transfer counter.					
	Method 1. Press the start key. The history of a machine by three cases.	number and a transfer belt unit counter for each color is displayed				
	Display	Description				
	Machine History 1 - 3	Historical records of the machine number				
	Count History 1 - 3	Historical records of transfer belt unit counter				
	<b>Completion</b> Press the stop key. The scre	en for selecting a maintenance item No. is displayed.				

Item No.		Description				
U127	Checking/clearing the transf	fer count				
	Description Displays and clears the counts of the transfer counter. Purpose To check the count after replacement of the transfer belt unit or transfer roller. Also to clear the counts after replacing transfer roller.					
	<b>Method</b> 1. Press the start key. The cu	irrent counts of the transfer counter is displayed.				
	Display	Description				
	Mid Trans	Transfer belt unit counter value				
	2nd Trans	Transfer roller counter value				
	Cnt	Transfer counter value				
	<b>Clearing</b> 1. Select [Clear]. 2. Press the start key. The co	ounter value is cleared.				
	Setting 1. Change the counter value 2. Press the start key. The co	using the cursor left/right keys or numeric keys. ounter value is set.				
	<b>Completion</b> Press the stop key. The screer	n for selecting a maintenance item No. is displayed.				
U135	Checking toner motor opera	tion				
	Description Drives toner motors. Purpose To check the operation of toner motors. Remarks					
	When driving the toner motors long time or several times, developing section becomes the toner full and is locked.					
	Method 1. Press the start key. 2. Select [Toner]. 3. Press the start key. The op	peration starts.				
	<b>Completion</b> Press the stop key after operation played.	tion stops. The screen for selecting a maintenance item No. is dis-				

U136	Description							
0100	Setting toner near end detection							
	Description         Sets the level that indicates the number of sheets that can be printed from occurrence of toner near end to toner empty.         Purpose         To change the setting to advance detection of near end if the interval from toner near end to tone empty seems too short.							
		Press the start k						
		Select the item the sett		using the cursor left/right keys or nume	eric kevs			
	0.	Display		Description	Setting range	Initial setting		
		к	Setting t	he level of black toner	0 to 10*	0		
		CMY	-	he level of cyan/magenta/yellow toner	0 to 10*	0		
U139	<b>Description</b> Displays the detected temperature and humidity outside the machine.							
	<b>Purpose</b> To check the temperature and humidity outside the machine.							
	To ch	neck the tempera	ature and	humidity outside the machine.				
	Meth	od		humidity outside the machine. etected temperature and humidity are	displayed.			
	Meth	od	key. The d					
	Meth	od Press the start k	key. The d	letected temperature and humidity are				
	Meth	od Press the start k Displa	key. The d <b>y</b> erature	etected temperature and humidity are Description				
	Meth	od Press the start k Display External Tempe	xey. The d <b>y</b> erature lity	etected temperature and humidity are Description External temperature (°C)	<u> </u>	it (°C)		
	Meth	od Press the start k Display External Tempe External Humic	xey. The d y erature lity (LSU)	etected temperature and humidity are Description External temperature (°C) External humidity (%)	scanner uni	. ,		
	Meth	od Press the start k Display External Tempe External Humic Internal Temp1	xey. The d y erature lity (LSU)	etected temperature and humidity are Description External temperature (°C) External humidity (%) Internal temperature around the laser	scanner un	°C)		

Item No.								
U140	Setting developer bias							
	<b>Description</b> Setting the value of various developer bias. <b>Purpose</b> To check and setting the value of developer bias.							
	<ul><li>Method</li><li>1. Press the start key.</li><li>2. Select the item to be set or displayed.</li></ul>							
	Display		Description	1				
	Mag DC		Setting the value of magnet DC bias.					
	Sleeve DC		Setting the value of sleeve DC bias.					
	Clock Freq		Setting the value of clock frequency.					
	Clock Duty		Setting the value of clock duty.					
	AC Ctrl		Setting the value of AC control voltag	je.				
	On Timing		Setting the value of developer On tim	ling.				
	Off Timing		Setting the value of developer Off timing.					
	Setting: [Mag DC/Sle 1. Select the item to	be set.	/Clock Freq/Clock Duty/AC Ctrl]	-				
	Setting: [Mag DC/Sle 1. Select the item to	be set.		ric keys.				
	Setting: [Mag DC/Sle 1. Select the item to 2. Change the setting	be set. g value u	/Clock Freq/Clock Duty/AC Ctrl]	ric keys.				
	Setting: [Mag DC/Sle 1. Select the item to 2. Change the setting Display	be set. g value u Setting	/Clock Freq/Clock Duty/AC Ctrl] using the cursor left/right keys or nume Description	ric keys. Initial setting				
	Setting: [Mag DC/Sle 1. Select the item to 2. Change the setting Display 1st	be set. g value u Setting Setting	/Clock Freq/Clock Duty/AC Ctrl] using the cursor left/right keys or nume Description g the value of yellow.	ric keys.  Initial setting  450/150/36/27/1400				
	Setting: [Mag DC/Sle 1. Select the item to 2. Change the setting Display 1st 2nd	be set. g value u Setting Setting Setting	/Clock Freq/Clock Duty/AC Ctrl] using the cursor left/right keys or nume Description g the value of yellow. g the value of cyan.	ric keys.  Initial setting  450/150/36/27/1400 480/180/36/27/1400				
	Setting: [Mag DC/Sle 1. Select the item to 2. Change the setting Display 1st 2nd 3rd	be set. g value u Setting Setting Setting	/Clock Freq/Clock Duty/AC Ctrl] using the cursor left/right keys or nume Description g the value of yellow. g the value of cyan. g the value of magenta.	ric keys. Initial setting 450/150/36/27/1400 480/180/36/27/1400 480/180/36/27/1400				
	Setting: [Mag DC/Sle 1. Select the item to 2. Change the setting Display 1st 2nd 3rd 4th	be set. y value u Setting Setting Setting Setting Setting	/Clock Freq/Clock Duty/AC Ctrl] using the cursor left/right keys or nume Description g the value of yellow. g the value of cyan. g the value of magenta. g the value of black.	ric keys. Initial setting 450/150/36/27/1400 480/180/36/27/1400 480/180/36/27/1400 450/150/36/27/1400				
	Setting: [Mag DC/Sle 1. Select the item to 2. Change the setting Display 1st 2nd 3rd 4th Remove 1st	be set. g value u Setting Setting Setting Setting Setting	/Clock Freq/Clock Duty/AC Ctrl] using the cursor left/right keys or nume Description g the value of yellow. g the value of cyan. g the value of magenta. g the value of black. g the value of remove yellow.	ric keys. Initial setting 450/150/36/27/1400 480/180/36/27/1400 480/180/36/27/1400 450/150/36/27/1400 50/150/36/27/1000				
	Setting: [Mag DC/Sle 1. Select the item to 2. Change the setting Display 1st 2nd 3rd 4th Remove 1st Remove 2nd	be set. g value u Setting Setting Setting Setting Setting Setting	/Clock Freq/Clock Duty/AC Ctrl] using the cursor left/right keys or nume Description g the value of yellow. g the value of cyan. g the value of magenta. g the value of black. g the value of remove yellow. g the value of remove cyan.	ric keys. Initial setting 450/150/36/27/1400 480/180/36/27/1400 480/180/36/27/1400 450/150/36/27/1400 50/150/36/27/1000 50/150/36/27/1000				
	Setting: [Mag DC/Sle 1. Select the item to 2. Change the setting Display 1st 2nd 3rd 4th Remove 1st Remove 2nd Remove 3rd	be set. g value u Setting Setting Setting Setting Setting Setting Setting	/Clock Freq/Clock Duty/AC Ctrl] using the cursor left/right keys or nume Description g the value of yellow. g the value of cyan. g the value of magenta. g the value of black. g the value of remove yellow. g the value of remove cyan. g the value of remove magenta.	ric keys. Initial setting 450/150/36/27/1400 480/180/36/27/1400 480/180/36/27/1400 450/150/36/27/1400 50/150/36/27/1000 50/150/36/27/1000 50/150/36/27/1000				
	Setting: [Mag DC/Sle 1. Select the item to 2. Change the setting Display 1st 2nd 3rd 4th Remove 1st Remove 2nd Remove 3rd Remove 4th	be set. y value u Setting Setting Setting Setting Setting Setting Setting Setting	/Clock Freq/Clock Duty/AC Ctrl] using the cursor left/right keys or nume Description g the value of yellow. g the value of cyan. g the value of magenta. g the value of magenta. g the value of fremove yellow. g the value of remove cyan. g the value of remove magenta. g the value of remove black.	ric keys. Initial setting 450/150/36/27/1400 480/180/36/27/1400 480/180/36/27/1400 450/150/36/27/1400 50/150/36/27/1000 50/150/36/27/1000 50/150/36/27/1000				
	Setting: [Mag DC/Sle 1. Select the item to 2. Change the setting Display 1st 2nd 3rd 4th Remove 1st Remove 1st Remove 3rd Remove 4th Remove 1st Half	be set. y value u Setting Setting Setting Setting Setting Setting Setting Setting Setting	/Clock Freq/Clock Duty/AC Ctrl] using the cursor left/right keys or nume Description g the value of yellow. g the value of cyan. g the value of magenta. g the value of magenta. g the value of fremove yellow. g the value of remove cyan. g the value of remove magenta. g the value of remove black. g the value of remove black. g the value of remove black.	ric keys. Initial setting 450/150/36/27/1400 480/180/36/27/1400 480/180/36/27/1400 450/150/36/27/1400 50/150/36/27/1000 50/150/36/27/1000 50/150/36/27/1000 350/180/36/27/1200				

	Description							
U140	1. Se	ng: [On Timing/( elect the item to l hange the setting	be set.	ing] using the cursor left/right keys	or numeric keys.			
		Display		Description	Setting range	Initial setting		
	1	st	Settin	g the value of yellowt.	-500 to 500	0/0		
	2	2nd	Settin	ig the value of cyan.	-500 to 500	0/0		
	3	Brd	Settin	g the value of magenta.	-500 to 500	0/0		
	4	lth	Settin	g the value of black.	-500 to 500	0/0		
	3. Pr	ress the start key	. The va	alue is set.		·		
U147	Press the stop key. The screen for selecting a maintenance item No. is displayed.         Setting for toner applying operation         Description         Sets the mode for removing charged toner in the developer unit (T7 control: Toner applying operation).         Purpose         Changing settings are not required. However, when the documents with lower print density (e.g less than 2%) should customarily printed in a great volume, mode must be changed.         If the charged toner stays inside the developer unit, density decreases.         Setting							
	Sets t ation) Purpo Chang less th If the Settin 1. Pr	he mode for rem <b>DSE</b> ging settings are han 2%) should of charged toner start ng ress the start key	not req customa ays insid	uired. However, when the doc arily printed in a great volume,	uments with lower mode must be cha	print density (e		
	Sets t ation) Purpo Chang less th If the Settin 1. Pr 2. Set	he mode for rem <b>bse</b> ging settings are han 2%) should o charged toner start ng ress the start key elect the item to b	not req customa ays insid / be set.	uired. However, when the doc arily printed in a great volume, de the developer unit, density	uments with lower mode must be cha decreases.	print density (e		
	Sets t ation) Purpo Chang less th If the Settin 1. Pr 2. Set	he mode for rem <b>bse</b> ging settings are han 2%) should o charged toner start ng ress the start key elect the item to b	not req customa ays insid / be set.	uired. However, when the doc arily printed in a great volume,	uments with lower mode must be cha decreases.	print density (e		
	Sets t ation) Purpo Chang less th If the Settin 1. Pr 2. Se 3. Cl	he mode for rem <b>bse</b> ging settings are han 2%) should of charged toner start ng ress the start key elect the item to b hange the setting	not req customa ays insid / be set.	uired. However, when the doc arily printed in a great volume, de the developer unit, density using the cursor left/right keys	uments with lower mode must be cha decreases. or numeric keys.	print density (e inged.		
	Sets t ation) Purpo Chang less th If the Settin 1. Pr 2. Se 3. Cl	he mode for rem <b>bse</b> ging settings are han 2%) should of charged toner stand ress the start key elect the item to be hange the setting <b>Display</b>	not req customa ays insid / be set.	uired. However, when the doc arily printed in a great volume, de the developer unit, density using the cursor left/right keys <b>Description</b>	uments with lower mode must be cha decreases. or numeric keys. Setting range	print density (e inged. Initial setting		

No.	Description					
)	Checking sensors for to	ner				
	DescriptionDisplays the on-off status of each sensor or switch related to toner.PurposeTo check if the sensors and switches operate correctly.					
	Method 1. Press the start key. 2. Select the item. The	screen for executing each item is displayed.				
	Display	Description				
	T/C	Displays the state of the toner sensor.				
	Waste Box	Displays the state of the waste toner box.				
	<ul> <li>Method: [T/C]</li> <li>1. Turn each switch or sensor on and off manually to check the status.</li> <li>When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1"</li> </ul>					
	Display	Switches and sensors				
	T/C Sensor 1st	Displays the state of the toner sensor (Yellow).				
	T/C Sensor 2nd	Displays the state of the toner sensor (Cyan).				
	T/C Sensor 3rd	Displays the state of the toner sensor (Magenta).				
	T/C Sensor 4th	Displays the state of the toner sensor (Black).				
	Motor	Drives developer motor, developer clutch.				
	2. To stop motor driving,	press the stop key.				
	Method: [Waste Box] 1. Turn each switch or set When a switch or sens sensor will be "1"	ensor on and off manually to check the status. sor is detected to be in the ON position, the display for that switch o				
	Method: [Waste Box] 1. Turn each switch or set When a switch or sense sensor will be "1" Display	ensor on and off manually to check the status. sor is detected to be in the ON position, the display for that switch o Switches and sensors				
	Method: [Waste Box] 1. Turn each switch or set When a switch or sens sensor will be "1"	ensor on and off manually to check the status. sor is detected to be in the ON position, the display for that switch o				
	Method: [Waste Box] 1. Turn each switch or set When a switch or sets sensor will be "1" Display Waste Box Sensor	ensor on and off manually to check the status. sor is detected to be in the ON position, the display for that switch Switches and sensors				

tem No.			Description		
U157	Checking the dev	eloping dr	ive time		
	Description				
	Displays the devel		time for checking a figure, wh	ich is used as a re	ference when co
	recting the toner co Purpose	ontrol.			
		oping drive	time after replacing the devel	oping unit.	
	Method				
		key. The de	eveloping drive time of each c	olor is displayed.	
	Displ	ау		scription	
	С		Cyan developing drive time (		
	М		Magenta developing drive tin	ne (min)	
	Y		Yellow developing drive time	(min)	
	к		Black developing drive time	(min)	
	Setting				
	Setting	4			
	<ol> <li>Select the item</li> <li>Change the se</li> </ol>		using the cursor left/right keys	or numeric keys.	
	Display		Description	Setting range	Initial setting
	С	Cyan dev	eloping drive time (min)	0 to 59999	0
	М	Magenta	developing drive time (min)	0 to 59999	0
	Y	Yellow de	eveloping drive time (min)	0 to 59999	0
	к	Black dev	veloping drive time (min)	0 to 59999	0
	3. Press the start	key. The se	etting is set.		
	Completion				
	Press the stop key	. The scree	n for selecting a maintenance	item No. is display	yed.

Item No.									
U161	Setting the fuser control temperature								
	<ul> <li>Description</li> <li>Changes the fuser control temperature and control temperature correction value and other values.</li> <li>Purpose</li> <li>Normally no change is necessary. However, this mode can be used to prevent curling or creat of paper, or solve a fuser problem on thick paper.</li> </ul>								
	<b>Setting</b> 1. Press the start key 2. Select the item to 3. Change the setting								
	Display	Description	Setting range	Initial setting					
	Copy Curb(Edge)	Prevention temperature of overtem- perature rise under copy	100 to 250	210					
	Curb(Edge)	Prevention temperature of overtem- perature rise	100 to 250	240					
	Return(Edge)	Return temperature of overtempera- ture rise	100 to 250	190					
	Ready(Edge)	Ready display temperature	0 to 200	140					
	Pressure(Press)	Pressurizing beginning temperature	0 to 200	100					
	High speed(Center)	Full speed shift temperature	0 to 200	130					
	Ready(Center)	Ready display temperature	100 to 200	150					
	Drive(Center)	The second stability temperature	100 to 200	160					
	Full speed(Cen- ter)	Print control temperature	100 to 200	160					
	Wait(Center)	Control temperature when being standing by	100 to 200	130					
	WarmUp Curb(Center)	Electric power control temperature at start-up	0 to 200	160					
	Curb(Center)	Prevention temperature of overtem- perature rise	170 to 250	240					
	Low power(Cen- ter)	Low electric power control temperature	0 to 200	90					
	Ready(Press)	Ready display temperature	0 to 200	60					
	Curb(Press)	Prevention temperature of overtem- perature rise	170 to 250	240					
	Wait Off- set(Press)	Correction temperature when being standing by	0 to 200	100					

4. Press the start key. The value is set.

Item No.		Description			
U161	<b>Completion</b> Press the stop key.	The screen for selecting a maintenance item No. is displayed.			
U167	Checking/clearing the fuser count				
	Description Displays and clears the fuser count for checking. Purpose To check or clear the fuser count after replacement of the fuser unit. Also to clear the counts after replacing unit.				
	Method 1. Press the start	key. The fuser count is displayed.			
	Display	Description			
	Cnt	Fuser count value			
	Clear	Clearness of fuser counter value			
U169	Completion Press the stop key. Confirmation/settin Description Displays and settin Purpose To check or set the ply. Method	key. The count is cleared. The screen for selecting a maintenance item No. is displayed. <b>ng the fuser power supply</b> gs the specification of fuser power supply for checking. specification of fuser power supply after replacement of the fuser power sup- key. The specification of fuser power supply is displayed.			
	Disp				
	Mode	Specification of fuser power supply (1: 100V, 2: 200V, 3: 120V)			
	-	ting using the cursor left/right keys or numeric keys. key. The value is set.			
	<b>Completion</b> Press the stop key.	The screen for selecting a maintenance item No. is displayed.			

em No.		Description				
U199	Displaying fuser heater ten	nperature				
	Description					
	Displays the detected fuser t	emperature.				
	Purpose					
	To check the fuser temperature.					
	Method					
	1. Press the start key. The current setting is displayed.					
	Display	Description				
	Fix Press	Press roller center temperature (°C)				
	Fix Edge	Heat roller edge temperature (°C)				
	Fix Center	Heat roller center temperature (°C)				
	Completion Press the stop key. The scre	en for selecting a maintenance mode No. is displayed.				
U201	Initializing the touch panel					
	Description					
	Automatically correct the positions of the X- and Y-axes of the touch panel.					
	Purpose					
	To automatically correct the display positions on the touch panel after it is replaced.					
	Method					
	Method 1. Press the start key.					
	2. Select the [Initialize] or [0	Check].				
	Display	Description				
	Initialize	Adjusts the display on the panel automatically				
	Check	Checks the display on the touch panel				
	Check					
	Method: [Initialize]					
	1. Press the start key.					
	2. Press the center of the + keys. Be sure to press three + keys displayed in order.					
	The touch panel is adjusted automatically. 3. Press the indicated three + keys, and then check the display.					
	<ul> <li>4. Press the stop key. The screen for selecting a maintenance item No. is displayed.</li> </ul>					
	Method: [Check]					
	<ol> <li>Press the start key.</li> <li>Press the indicated three + keys, and then check the display.</li> </ol>					
	<ul><li>When adjusting the display, press [Initialize] to execute the adjustment automatically.</li><li>3. Press the stop key. The screen for selecting a maintenance item No. is displayed.</li></ul>					
	3. Press the stop key. The	3. Press the stop key. The screen for selecting a maintenance item No. is displayed.				
	Completion	en for selecting a maintenance item No. is displayed.				
	Completion	en for selecting a maintenance item No. is displayed.				

	Description					
U203	Checking DP operation					
	<b>Description</b> Simulates the original conveying operation separately in the DP. <b>Purpose</b> To check the DP operation.					
	<ul><li>Method</li><li>1. Press the start key.</li><li>2. Place an original in the DP if running this simulation with paper.</li><li>3. Select the speed to be operated.</li></ul>					
	Display	Description				
	Normal Speed	Normal reading (600 dpi)				
	High Speed	High-speed reading				
	4. Select the item to be or	perated.				
	Display	Description				
	CCD ADP (Non-P)	Without paper, single-sided original of CCD (continuous operation)				
	CCD ADP	With paper, single-sided original of CCD				
	CCD RADP (Non-P)	Without paper, double-sided original of CCD (continuous operation)				
	CCD RADP	With paper, double-sided original of CCD				
	<ul><li>5. Press the start key. The operation starts.</li><li>6. To stop continuous operation, press the stop key.</li><li>Completion</li></ul>					
	Press the stop key. The screen for selecting a maintenance item No. is displayed.					
		een for selecting a maintenance item No. is displayed.				
		een for selecting a maintenance item No. is displayed.				
		een for selecting a maintenance item No. is displayed.				
		een for selecting a maintenance item No. is displayed.				
		een for selecting a maintenance item No. is displayed.				
		een for selecting a maintenance item No. is displayed.				
		een for selecting a maintenance item No. is displayed.				
		een for selecting a maintenance item No. is displayed.				
		een for selecting a maintenance item No. is displayed.				
		een for selecting a maintenance item No. is displayed.				
		een for selecting a maintenance item No. is displayed.				
		een for selecting a maintenance item No. is displayed.				

Item No.		Description			
U207	Checking the operation par	nel keys			
	Description				
	Checks operation of the operation	ation panel keys.			
	Purpose	revs and LEDs on the operation panel			
	To check operation of all the keys and LEDs on the operation panel.				
	<ol> <li>[Count0] is displayed and</li> <li>As the keys lined up in the to the bottom, the figure s keys in that line are press on the immediate right, th</li> <li>When all the keys on the seconds.</li> </ol>	creen for executing is displayed. the leftmost LED on the operation panel lights. e same line as the lit indicator are pressed in the order from the top hown on the touch panel increases in increments of 1. When all the sed and if there are any LEDs corresponding to the keys in the line e top LED in that line will light. operation panel have been pressed, all the LEDs light for up to 10 en for selecting a maintenance item No. is displayed.			
U222	Setting the IC card type				
	Description				
	Sets the type of IC card. Purpose				
	To change the type of IC card.				
	<b>Setting</b> 1. Press the start key. 2. Select the item.				
	Display	Description			
	Other	The type of IC card is SSFC.			
	SSFC	The type of IC card is not SSFC.			
	<ul><li>* : Initial setting: Other</li><li>3. Press the start key. The setting is set.</li></ul>				
	<b>Completion</b> Press the stop key. The scree	en for selecting a maintenance item No. is displayed.			

tem No.		Description				
U243	Checking the operation	of the DP motors				
	Description					
	Turns the motors or clutches in the DP on.					
	Purpose To check the operation of the DP motors and clutches.					
	To check the operation of the DF motors and clutches.					
	Method					
	<ol> <li>Press the start key.</li> <li>Select the item to be</li> </ol>	operated.				
	3. Press the start key. T	•				
	Display	Description				
	Conv Motor	DP paper feed motor (DPPFM) is turned on				
	Rev Motor	DP switchback motor (DPSBM) is turned on				
	Feed Clutch	DP paper feed clutch (DPPFCL) is turned on				
	Regist Clutch	DP registration clutch (DPRCL) is turned on				
	4. To turn each motor of	f press the stop key				

U244       Checking the DP switches         Description Displays the status of the respective switches in the DP.       Purpose To check if the respective switches in the DP operate correctly.         Method       1. Press the start key.         2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1".         Display       Switches and sensors         Switch       00000000         1st digit       DP interlock switch (DPILSW)         2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP original sensor (DPOS)         7th digit       DP original sensor (DPOS)         7th digit       DP original sensor (DPOS)         8th digit       -         Completion         Press the stop key. The screen for selecting a maintenance item No. is displayed.	Description         Displays the status of the respective switches in the DP.         Purpose         To check if the respective switches in the DP operate correctly.         Method         1. Press the start key.         2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1".         Display       Switches and sensors         Switch       00000000         1st digit       DP interlock switch (DPILSW)         2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP original sensor (DPOS)         7th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -	Description         Displays the status of the respective switches in the DP.         Purpose         To check if the respective switches in the DP operate correctly.         Method         1. Press the start key.         2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switcl sensor will be "1".         Display       Switches and sensors         Switch       00000000         1 st digit       DP interlock switch (DPILSW)         2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP original sensor (DPOS)         7th digit       DP original sensor (DPOS)         8th digit       -	Description         Displays the status of the respective switches in the DP.         Purpose         To check if the respective switches in the DP operate correctly.         Method         1. Press the start key.         2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1".         Display       Switches and sensors         Switch       00000000         1st digit       DP interlock switch (DPILSW)         2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP original sensor (DPOS)         7th digit       DP original sensor (DPOS)         8th digit       -	tem No.	Description					
Displays the status of the respective switches in the DP. Purpose To check if the respective switches in the DP operate correctly. Method 1. Press the start key. 2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1". Display Switches and sensors Switch 00000000 1st digit DP interlock switch (DPILSW) 2nd digit DP open/close sensor (DPOCS) 3rd digit DP paper feed sensor (DPPFS) 4th digit DP registration sensor (DPPS) 5th digit DP timing sensor (DPTS) 6th digit DP original sensor (DPOS) 7th digit DP original sensor (DPOLS) 8th digit -	Displays the status of the respective switches in the DP. Purpose To check if the respective switches in the DP operate correctly. Method 1. Press the start key. 2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1". Display Switches and sensors Switch 0000000 1st digit DP interlock switch (DPILSW) 2nd digit DP open/close sensor (DPOCS) 3rd digit DP paper feed sensor (DPPFS) 4th digit DP registration sensor (DPPS) 5th digit DP timing sensor (DPTS) 6th digit DP original sensor (DPOS) 7th digit DP original size length sensor (DPOLS) 8th digit -	Displays the status of the respective switches in the DP. Purpose To check if the respective switches in the DP operate correctly. Method 1. Press the start key. 2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch sensor will be "1". Display Switches and sensors Switch 00000000 1st digit DP interlock switch (DPILSW) 2nd digit DP open/close sensor (DPOCS) 3rd digit DP paper feed sensor (DPPFS) 4th digit DP registration sensor (DPPFS) 5th digit DP timing sensor (DPTS) 6th digit DP original sensor (DPOS) 7th digit DP original sensor (DPOS) 8th digit - Completion	Displays the status of the respective switches in the DP. Purpose To check if the respective switches in the DP operate correctly. Method 1. Press the start key. 2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1". Display Switches and sensors Switch 00000000 1st digit DP interlock switch (DPILSW) 2nd digit DP open/close sensor (DPOCS) 3rd digit DP paper feed sensor (DPPFS) 4th digit DP registration sensor (DPRS) 5th digit DP timing sensor (DPRS) 6th digit DP original sensor (DPOS) 7th digit DP original sensor (DPOS) 8th digit -	U244	Checking the DP switches					
To check if the respective switches in the DP operate correctly.          Method         1. Press the start key.         2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1".         Display       Switches and sensors         Switch       00000000         1st digit       DP interlock switch (DPILSW)         2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP original sensor (DPOS)         7th digit       DP original sensor (DPOS)         8th digit       -	To check if the respective switches in the DP operate correctly.          Method         1. Press the start key.         2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1".         Display       Switches and sensors         Switch       00000000         1st digit       DP interlock switch (DPILSW)         2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP original sensor (DPOS)         7th digit       DP original sensor (DPOS)         8th digit       -	To check if the respective switches in the DP operate correctly.          Method         1. Press the start key.         2. Turn each switch or sensor on and off manually to check the status.         When a switch or sensor is detected to be in the ON position, the display for that switch sensor will be "1".         Display       Switches and sensors         Switch       00000000         1st digit       DP interlock switch (DPILSW)         2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP original sensor (DPOS)         7th digit       DP original sensor (DPOS)         8th digit       -	To check if the respective switches in the DP operate correctly.          Method         1. Press the start key.         2. Turn each switch or sensor on and off manually to check the status.         When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1".         Display       Switches and sensors         Switch       00000000         1st digit       DP interlock switch (DPILSW)         2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP original sensor (DPOS)         7th digit       DP original sensor (DPOS)         8th digit       -		•					
Method         1. Press the start key.         2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1".         Display       Switches and sensors         Switch       00000000         1st digit       DP interlock switch (DPILSW)         2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP original sensor (DPOS)         7th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -	Display       Switch or sensor on and off manually to check the status.         When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1".         Display       Switches and sensors         Switch       0000000         1st digit       DP interlock switch (DPILSW)         2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP original sensor (DPOS)         7th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -	Method         1. Press the start key.         2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch sensor will be "1".         Display       Switches and sensors         Switch       00000000         1st digit       DP interlock switch (DPILSW)         2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP original sensor (DPOS)         7th digit       DP original sensor (DPOS)         7th digit       DP original sensor (DPOS)         8th digit       -	Method         1. Press the start key.         2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1".         Display       Switches and sensors         Switch       00000000         1st digit       DP interlock switch (DPILSW)         2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP original sensor (DPOS)         7th digit       DP original sensor (DPOS)         8th digit       -							
<ol> <li>Press the start key.</li> <li>Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1".</li> <li>Display Switches and sensors</li> <li>Switch 00000000         <ul> <li>1st digit</li> <li>DP interlock switch (DPILSW)</li> <li>2nd digit</li> <li>DP open/close sensor (DPOCS)</li> <li>3rd digit</li> <li>DP paper feed sensor (DPPFS)</li> <li>4th digit</li> <li>DP registration sensor (DPRS)</li> <li>5th digit</li> <li>DP original sensor (DPOS)</li> <li>7th digit</li> <li>DP original size length sensor (DPOLS)</li> <li>8th digit</li> <li>-</li> </ul> </li> </ol>	<ul> <li>1. Press the start key.</li> <li>2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1".</li> <li>Display Switches and sensors</li> <li>Switch 00000000</li> <li>1st digit DP interlock switch (DPILSW)</li> <li>2nd digit DP open/close sensor (DPOCS)</li> <li>3rd digit DP paper feed sensor (DPPFS)</li> <li>4th digit DP registration sensor (DPRS)</li> <li>5th digit DP timing sensor (DPOS)</li> <li>5th digit DP original sensor (DPOS)</li> <li>7th digit DP original size length sensor (DPOLS)</li> <li>8th digit -</li> </ul>	<ul> <li>1. Press the start key.</li> <li>2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch sensor will be "1".</li> <li>Display Switches and sensors</li> <li>Switch 00000000</li> <li>1st digit DP interlock switch (DPILSW)</li> <li>2nd digit DP open/close sensor (DPOCS)</li> <li>3rd digit DP paper feed sensor (DPPFS)</li> <li>4th digit DP registration sensor (DPRS)</li> <li>5th digit DP original sensor (DPOS)</li> <li>7th digit DP original sensor (DPOS)</li> <li>8th digit -</li> </ul>	<ul> <li>1. Press the start key.</li> <li>2. Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or sensor will be "1".</li> <li>Display Switches and sensors</li> <li>Switch 00000000 1st digit DP interlock switch (DPILSW) 2nd digit DP open/close sensor (DPOCS) 3rd digit DP paper feed sensor (DPPFS) 4th digit DP registration sensor (DPRS) 5th digit DP timing sensor (DPOS) 6th digit DP original sensor (DPOS) 7th digit DP original size length sensor (DPOLS) 8th digit -</li> <li>Completion</li> </ul>		To check if the respective switches in the DP operate correctly.					
DisplaySwitches and sensorsSwitch00000001st digitDP interlock switch (DPILSW)2nd digitDP open/close sensor (DPOCS)3rd digitDP paper feed sensor (DPPFS)4th digitDP registration sensor (DPRS)5th digitDP timing sensor (DPOS)6th digitDP original sensor (DPOS)7th digitDP original size length sensor (DPOLS)8th digit-	Display         Switches and sensors           Switch         00000000           1st digit         DP interlock switch (DPILSW)           2nd digit         DP open/close sensor (DPOCS)           3rd digit         DP paper feed sensor (DPPFS)           4th digit         DP registration sensor (DPRS)           5th digit         DP original sensor (DPOS)           6th digit         DP original sensor (DPOS)           7th digit         DP original sensor (DPOS)           8th digit         -	Display       Switches and sensors         Switch       0000000         1st digit       DP interlock switch (DPILSW)         2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP timing sensor (DPTS)         6th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -	DisplaySwitches and sensorsSwitch000000001st digitDP interlock switch (DPILSW)2nd digitDP open/close sensor (DPOCS)3rd digitDP paper feed sensor (DPPFS)4th digitDP registration sensor (DPRS)5th digitDP timing sensor (DPTS)6th digitDP original sensor (DPOS)7th digitDP original size length sensor (DPOLS)8th digit-		<ol> <li>Press the start key.</li> <li>Turn each switch or sensor on and off manually to check the status. When a switch or sensor is detected to be in the ON position, the display for that switch or</li> </ol>					
Switch       00000000         1st digit       DP interlock switch (DPILSW)         2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP timing sensor (DPTS)         6th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -	Switch       00000000         1st digit       DP interlock switch (DPILSW)         2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP timing sensor (DPTS)         6th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -	Switch       00000000         1st digit       DP interlock switch (DPILSW)         2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP timing sensor (DPTS)         6th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -	Switch       0000000         1st digit       DP interlock switch (DPILSW)         2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP timing sensor (DPTS)         6th digit       DP original sensor (DPOS)         7th digit       DP original sensor (DPOS)         8th digit       -			Switches and sensors				
2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP timing sensor (DPTS)         6th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -	2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP timing sensor (DPTS)         6th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -	2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP timing sensor (DPTS)         6th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -	2nd digit       DP open/close sensor (DPOCS)         3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP timing sensor (DPTS)         6th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -							
3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP timing sensor (DPTS)         6th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -	3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP timing sensor (DPTS)         6th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -	3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP timing sensor (DPTS)         6th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -	3rd digit       DP paper feed sensor (DPPFS)         4th digit       DP registration sensor (DPRS)         5th digit       DP timing sensor (DPTS)         6th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -		1st digit	DP interlock switch (DPILSW)				
4th digit       DP registration sensor (DPRS)         5th digit       DP timing sensor (DPTS)         6th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -	4th digit       DP registration sensor (DPRS)         5th digit       DP timing sensor (DPTS)         6th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -	4th digit       DP registration sensor (DPRS)         5th digit       DP timing sensor (DPTS)         6th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -	4th digit       DP registration sensor (DPRS)         5th digit       DP timing sensor (DPTS)         6th digit       DP original sensor (DPOS)         7th digit       DP original size length sensor (DPOLS)         8th digit       -		2nd digit	DP open/close sensor (DPOCS)				
5th digit     DP timing sensor (DPTS)       6th digit     DP original sensor (DPOS)       7th digit     DP original size length sensor (DPOLS)       8th digit     -	5th digit     DP timing sensor (DPTS)       6th digit     DP original sensor (DPOS)       7th digit     DP original size length sensor (DPOLS)       8th digit     -	5th digit     DP timing sensor (DPTS)       6th digit     DP original sensor (DPOS)       7th digit     DP original size length sensor (DPOLS)       8th digit     -	5th digit     DP timing sensor (DPTS)       6th digit     DP original sensor (DPOS)       7th digit     DP original size length sensor (DPOLS)       8th digit     -		3rd digit	DP paper feed sensor (DPPFS)				
6th digit     DP original sensor (DPOS)       7th digit     DP original size length sensor (DPOLS)       8th digit     -	6th digit     DP original sensor (DPOS)       7th digit     DP original size length sensor (DPOLS)       8th digit     -   Completion	6th digit     DP original sensor (DPOS)       7th digit     DP original size length sensor (DPOLS)       8th digit     -	6th digit     DP original sensor (DPOS)       7th digit     DP original size length sensor (DPOLS)       8th digit     -		4th digit	DP registration sensor (DPRS)				
7th digit     DP original size length sensor (DPOLS)       8th digit     -       Completion	7th digit     DP original size length sensor (DPOLS)       8th digit     -       Completion	7th digit     DP original size length sensor (DPOLS)       8th digit     -       Completion	7th digit     DP original size length sensor (DPOLS)       8th digit     -		5th digit	DP timing sensor (DPTS)				
8th digit - Completion	8th digit -	8th digit - Completion	8th digit -		6th digit	DP original sensor (DPOS)				
Completion	Completion	Completion	Completion		7th digit	DP original size length sensor (DPOLS)				
					8th digit	-				
					Completion	<u> </u>				
					1					

	Checking/cleari	Description							
	Checking/clearing the maintenance cycle								
	Description								
	Changes preset values for maintenance cycle and automatic grayscale adjustment.								
	Purpose								
	-	g the time when the message to acknowled ale adjustment is periodically displayed.	ge to conduct main	tenance and					
ſ	automatic graysc	ale adjustment is periodically displayed.							
:	Setting								
	1. Press the sta	-							
		m to be changed.	orio kovo						
	3. Change the setting using the cursor left/right keys or numeric keys.								
	Display	Description	Setting range	Initial setting					
	M.Cnt A	Preset values for maintenance cycle (A)	0 to 9999999	200000					
	M.Cnt B	Preset values for maintenance cycle (B)	0 to 9999999	200000					
	M.Cnt HT	Preset values for automatic grayscale adjustment	0 to 9999999	0					
	Completion	rt key. The setting value is cleared. ey. The screen for selecting a maintenance it	em No. is displaye	d.					

	Description								
U251	Checking/clearing	ng the maintenance counter							
	count. <b>Purpose</b>	ars or changes the maintenance count and a ntenance counter count and automatic grays nce service.		-					
	<ul> <li>Setting</li> <li>1. Press the start key.</li> <li>2. Select the item to be changed.</li> <li>3. Change the setting using the cursor left/right keys or numeric keys.</li> </ul>								
	Display	Description	Setting range	Initial setting					
	M.Cnt A	Count value for maintenance cycle (A)	0 to 9999999	0					
	M.Cnt B	Count value for maintenance cycle (B)	0 to 9999999	0					
	M.Cnt HT	Automatic grayscale adjustment count	0 to 9999999	0					
	Completion	rt key. The setting value is cleared. ey. The screen for selecting a maintenance it	em No. is displayed	d.					
	Completion		em No. is displayed	J.					
	Completion		em No. is displayed	J.					
	Completion		em No. is displayed	d.					
	Completion		em No. is displayed	d.					
	Completion		em No. is displayed	J.					
	Completion		em No. is displayed	J.					
	Completion		em No. is displayed	J.					
	Completion		em No. is displayed	J.					
	Completion		em No. is displayed	d.					
	Completion		em No. is displayed	d.					
	Completion		em No. is displayed	J.					
	Completion		em No. is displayed	d.					

	Description					
U252	<ul> <li>Setting the destination</li> <li>Description</li> <li>Switches the operations and screens of the machine according to the destination.</li> <li>Purpose</li> <li>To be executed after initializing the backup RAM, in order to return the setting to the value by replacement or initialization.</li> </ul>					
	Method 1. Press the start key. 2. Select the destinatior	٦.				
	Display	Description				
	Japan Metric	Metric (Japan) specifications				
	Inch	Inch (North America) specifications				
	Europe Metric	Metric (Europe) specifications				
	Asia Pacific	Metric (Asia Pacific) specifications				
	Australia	Australia specifications				
	Australia China	Australia specifications China specifications				
	China Korea 3. Press the start key. 4. Turn the main power * : An error code is d	China specifications Korea specifications switch off and on. lisplayed in case of an initialization error.				
	China Korea 3. Press the start key. 4. Turn the main power * : An error code is d	China specifications Korea specifications switch off and on. lisplayed in case of an initialization error. rred, turn main power switch off then on, and execute initialization usi				
	China Korea 3. Press the start key. 4. Turn the main power * : An error code is d When errors occu maintenance item	China specifications Korea specifications switch off and on. lisplayed in case of an initialization error. rred, turn main power switch off then on, and execute initialization usi				
	China Korea 3. Press the start key. 4. Turn the main power * : An error code is d When errors occu maintenance item Error codes	China specifications Korea specifications switch off and on. lisplayed in case of an initialization error. rred, turn main power switch off then on, and execute initialization using U252.				
	China Korea 3. Press the start key. 4. Turn the main power * : An error code is d When errors occu maintenance item Error codes Codes	China specifications Korea specifications switch off and on. lisplayed in case of an initialization error. rred, turn main power switch off then on, and execute initialization using U252.				
	China Korea 3. Press the start key. 4. Turn the main power * : An error code is d When errors occu maintenance item Error codes Codes 0001	China specifications Korea specifications switch off and on. lisplayed in case of an initialization error. rred, turn main power switch off then on, and execute initialization using U252. Description Entity error				
	China Korea 3. Press the start key. 4. Turn the main power * : An error code is d When errors occu maintenance item Error codes Codes 0001 0002	China specifications Korea specifications switch off and on. lisplayed in case of an initialization error. rred, turn main power switch off then on, and execute initialization usin U252. Description Entity error Controller error				

Item No.	Description				
U253	Switching between dout	ble and single counts			
	Description         Switches the count system for the total counter and other counters.         Purpose         Used to select, according to the preference of the user (copy service provider), if folio size paper is to be counted as one sheet (single count) or two sheets (double count).				
	Setting 1. Press the start key. 2. Select the item to set.				
	Display	Description			
	Color	Count system of color mode			
	B/W	Count system of black/white mode			
	3. Select the count system.				
	Display	Description			
	SGL (All)	Single count for all size paper			
	DBL (A3/Ledger)	Double count for A3/Ledger size or larger			
	DBL (B4)	Double count for B4 size or larger			
	DBLFolio)	Double count for Folio size or larger			
	<ul><li>* : Initial setting: DBL (A3/Ledger)</li><li>4. Press the start key. The setting is set.</li></ul>				
	<b>Completion</b> Press the stop key. The screen for selecting a maintenance item No. is displayed.				
U260	Selecting the timing for	copy counting			
	Description Changes the copy count timing for the total counter and other counters. Purpose To be set according to user request.				
	<ul><li>Setting</li><li>1. Press the start key.</li><li>2. Select the copy count timing.</li></ul>				
	Display	Description			
	Feed	When secondary paper feed starts			
	Eject	When the paper is ejected			
	* : Initial setting: Eject 3. Press the start key. Th	ne setting is set.			
	Completion				

	Description							
U285	Setting service	status page	•					
	Description							
	Description Determines disp	laving the pr	int coverage report on reporting	a.				
	Purpose			0				
	According to use	er request, ch	nanges the setting.					
	Setting							
	<ol> <li>Press the start key.</li> <li>Select [On] or [Off].</li> </ol>							
	Dis	play	Des	scription				
	On		Displays the print coverage					
	Off Not to display the print coverage							
	* : Initial set 3. Press the sta	-	settina is set.					
	Completion	ov The sere	en for selecting a maintenance	itom No. in diaplay	od			
	Fiess the stop k	ey. The scre	en for selecting a maintenance	lien No. is displaye	eu.			
U325	Setting the paper interval							
0325	Setting the paper interval							
	Description							
	Determines the interval between pages and the toner replenishment amount when printing pages with high print coverage.							
				iishment amount wh	en printing page			
	with high print co <b>Purpose</b>	overage.						
	with high print co <b>Purpose</b> Modify the settin	overage. gs only if a s	potted background or uneven					
	with high print co <b>Purpose</b>	overage. gs only if a s						
	with high print co Purpose Modify the settin with high print co Method	overage. gs only if a s overage.						
	with high print co <b>Purpose</b> Modify the settin with high print co <b>Method</b> 1. Press the sta	overage. gs only if a s overage. art key.	potted background or uneven	density appears who				
	with high print co <b>Purpose</b> Modify the settin with high print co <b>Method</b> 1. Press the sta	overage. gs only if a s overage. art key.		density appears who	en printing page			
	with high print co <b>Purpose</b> Modify the settin with high print co <b>Method</b> 1. Press the sta 2. Change the sta	overage. gs only if a s overage. art key.	potted background or uneven of the cursor left/right keys or nu	density appears who	en printing page			
	with high print co <b>Purpose</b> Modify the settin with high print co <b>Method</b> 1. Press the sta 2. Change the sta <b>Display</b> Rank	overage. gs only if a s overage. art key. setting using Setting the	potted background or uneven of the cursor left/right keys or nu <b>Description</b>	density appears who meric keys. Setting range	en printing page			
	with high print co <b>Purpose</b> Modify the settin with high print co <b>Method</b> 1. Press the sta 2. Change the sta <b>Display</b> Rank	overage. gs only if a s overage. art key. setting using Setting the	potted background or uneven of the cursor left/right keys or nu	density appears who meric keys. Setting range	en printing page			
	with high print co <b>Purpose</b> Modify the settin with high print co <b>Method</b> 1. Press the sta 2. Change the sta <b>Display</b> Rank	overage. gs only if a s overage. art key. setting using Setting the	potted background or uneven of the cursor left/right keys or nu <b>Description</b>	density appears who meric keys. Setting range	en printing page			
	with high print co <b>Purpose</b> Modify the settin with high print co <b>Method</b> 1. Press the sta 2. Change the sta <b>Display</b> Rank 3. Press the sta <b>Completion</b>	overage. gs only if a s overage. art key. setting using Setting the art key. The s	potted background or uneven of the cursor left/right keys or nu <b>Description</b>	density appears who meric keys. Setting range 0 to 4	Initial setting			
	with high print co <b>Purpose</b> Modify the settin with high print co <b>Method</b> 1. Press the sta 2. Change the sta <b>Display</b> Rank 3. Press the sta <b>Completion</b>	overage. gs only if a s overage. art key. setting using Setting the art key. The s	potted background or uneven of the cursor left/right keys or nu <b>Description</b> e rank setting value is set.	density appears who meric keys. Setting range 0 to 4	Initial setting			
	with high print co <b>Purpose</b> Modify the settin with high print co <b>Method</b> 1. Press the sta 2. Change the sta <b>Display</b> Rank 3. Press the sta <b>Completion</b>	overage. gs only if a s overage. art key. setting using Setting the art key. The s	potted background or uneven of the cursor left/right keys or nu <b>Description</b> e rank setting value is set.	density appears who meric keys. Setting range 0 to 4	Initial setting			
	with high print co <b>Purpose</b> Modify the settin with high print co <b>Method</b> 1. Press the sta 2. Change the sta <b>Display</b> Rank 3. Press the sta <b>Completion</b>	overage. gs only if a s overage. art key. setting using Setting the art key. The s	potted background or uneven of the cursor left/right keys or nu <b>Description</b> e rank setting value is set.	density appears who meric keys. Setting range 0 to 4	Initial setting			
	with high print co <b>Purpose</b> Modify the settin with high print co <b>Method</b> 1. Press the sta 2. Change the sta <b>Display</b> Rank 3. Press the sta <b>Completion</b>	overage. gs only if a s overage. art key. setting using Setting the art key. The s	potted background or uneven of the cursor left/right keys or nu <b>Description</b> e rank setting value is set.	density appears who meric keys. Setting range 0 to 4	Initial setting			
	with high print co <b>Purpose</b> Modify the settin with high print co <b>Method</b> 1. Press the sta 2. Change the sta <b>Display</b> Rank 3. Press the sta <b>Completion</b>	overage. gs only if a s overage. art key. setting using Setting the art key. The s	potted background or uneven of the cursor left/right keys or nu <b>Description</b> e rank setting value is set.	density appears who meric keys. Setting range 0 to 4	Initial setting			

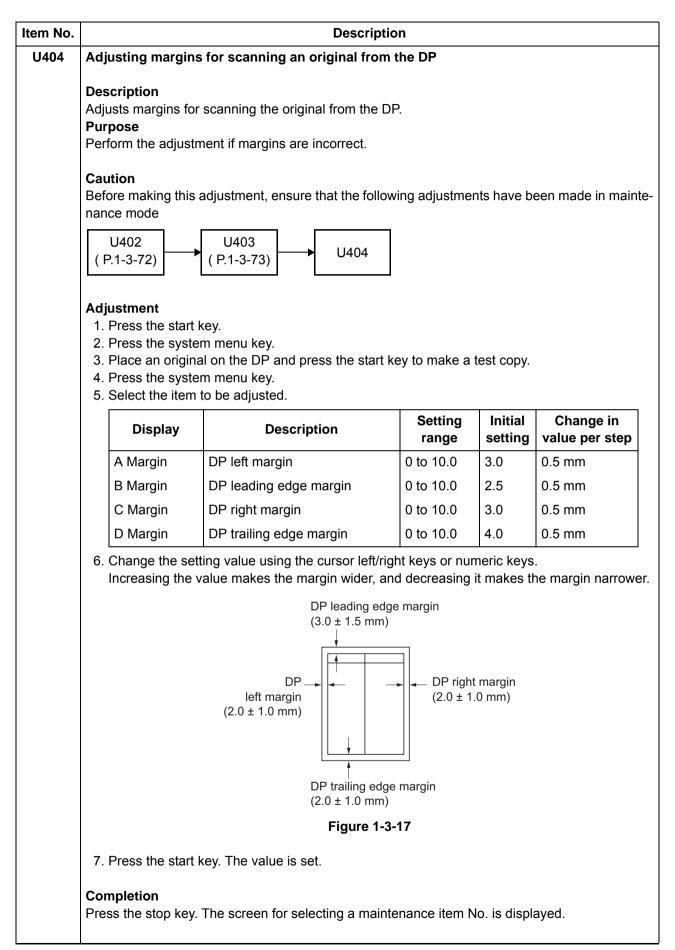
em No.			Description				
U326	Setting the black line cleaning indication						
	<ul> <li>Description</li> <li>Sets whether to display the cleaning guidance when detecting the black line.</li> <li>Purpose</li> <li>Displays the cleaning guidance in order to make the call for service with the black line decreas by the rubbish on the contact glass when scanning from the DP.</li> </ul>						
	Method						
	1. Press the start ke	ey.					
	2. Select the item to	set. The	e screen for setting each item is disp	played.			
	Display		Descripti	on			
	Black Line Mode		Black line cleaning guidance ON/C	OFF setting			
	Black Line Cnt		Setting counts of the cleaning guid	ance indicatio	on		
	Setting: [Black Line 1. Select [On] or [O	-					
	Display		Descripti	on			
	On		Displays the cleaning guidance				
	Off		Not to display the cleaning guidance				
	<ul> <li>* : Initial setting: On</li> <li>2. Press the start key. The setting is set.</li> <li>Setting: [Black Line Cnt]</li> <li>1. Select [Cnt].</li> </ul>						
	2. Change the settin	ng value	using the cursor left/right keys or nu Description	meric keys. Setting range	Initial setting		
	Cnt		ng counts of the cleaning guidance ation ( x 1000 sheets)	0 to 255	8		
	<ul> <li>* : When setting is 0, the black line cleaning indication is displayed only if the black line is detected.</li> <li>3. Press the start key. The value is set.</li> </ul>						
	<b>Completion</b> Press the stop key. The screen for selecting a maintenance item No. is displayed.						

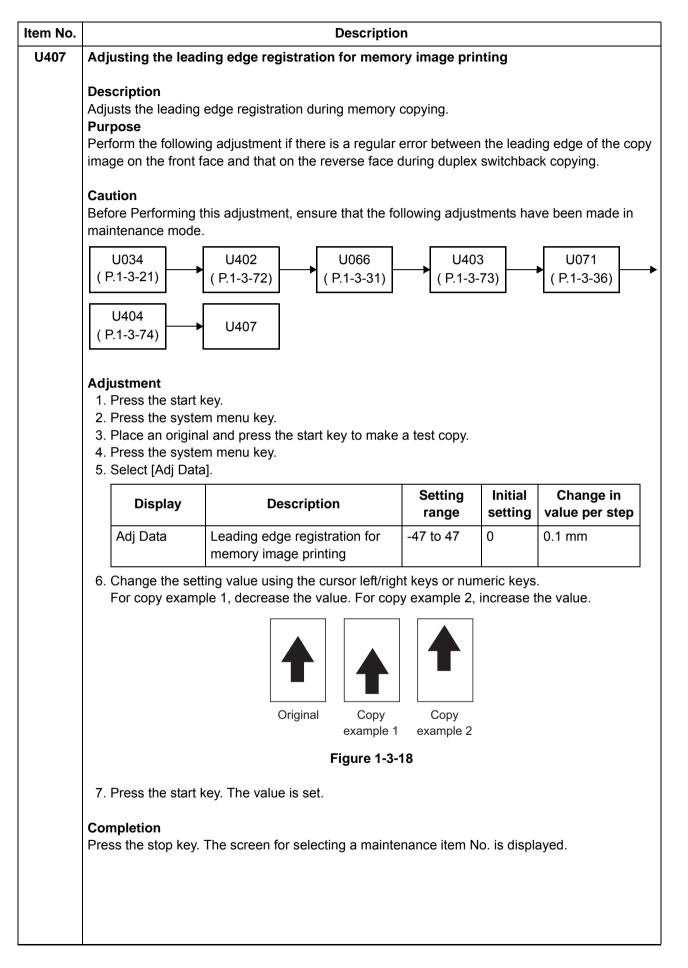
tem No.				Descriptio	'n			
U332	Set	ting the size con	version	factor				
	<b>Description</b> Sets the coefficient of nonstandard sizes in relation to the A4/Letter size. The coefficient set her is used to convert the black ratio in relation to the A4/Letter size and to display the result in use simulation.							
	Purpose To set the coefficient for converting the black ratio for nonstandard sizes in relation to the A4/Le ter size.							
	<ul> <li>Setting</li> <li>1. Press the start key.</li> <li>2. Select [Rate].</li> <li>3. Change the setting using the cursor left/right keys or numeric keys.</li> </ul>							
		Display		Description	Setting range	Initial setting		
		Rate	Size	parameter	0.1 to 3.0	1.0		
	4.	Press the start ke	y. The v	alue is set.				
	<ul> <li>Description</li> <li>Sets a paper feed location specified for printer output.</li> <li>Purpose</li> <li>To use a paper feed location only for printer output.</li> <li>A paper feed location specified for printer output cannot be used for copy output.</li> <li>Method <ol> <li>Press the start key.</li> <li>Select the paper feed location for the printer.</li> </ol> </li> </ul>							
	3. Select [On] or [Off] using the cursor left/right keys.							
		Display		Coocetto 1	Description			
		Cassette1 Cassette2		Cassette 1 Cassette 2 (optional pa	aner feeder)			
		Cassette3		Cassette 3 (optional pa	· ,			
	<ul> <li>* : When an optional paper feed device is not installed, the corresponding count is not displayed.</li> <li>4. Press the start key. The setting is set.</li> </ul>							
		<b>npletion</b> ss the stop key. Tł	ne scree	en for selecting a mainte	enance item No. is disp	layed.		

U343	Description							
	Switching between duplex/simplex copy mode							
	Description							
	-	itial setting b	etween duplex and simplex copy.					
	Purpose	-						
	To be set acco	rding to freque	ency of use: set to the more frequently	used mode.				
	Setting							
	1. Press the s	•						
	2. Select [On]							
	Di	splay	Descriptior					
	On		Duplex copy					
	Off		Simplex copy					
	* : Initial se	-						
	3. Press the s	start key. The	setting is set.					
	Completion							
	Press the stop	key. The scre	een for selecting a maintenance item No	. is displayed	d.			
U345	Setting the va	lue for main	tenance due indication					
	Purpose	ountreaches	the set value, the message is displayed	1.				
	Setting 1. Press the s 2. Select [Cnt	start key. ].	tenance due indication. a the cursor left/right keys or numeric ke	evs.				
	Setting 1. Press the s 2. Select [Cnt 3. Change the	start key. ].	g the cursor left/right keys or numeric ke	eys.	Initial			
	Setting 1. Press the s 2. Select [Cnt	start key. ].		-	Initial setting			
	Setting 1. Press the s 2. Select [Cnt 3. Change the	tart key. ]. e setting using Time for m (Remainin	g the cursor left/right keys or numeric ke	Setting				
	Setting 1. Press the s 2. Select [Cnt 3. Change the Display	tart key. ]. e setting using Time for m (Remainin before the	g the cursor left/right keys or numeric ke Description naintenance due indication g number of copies that can be made current maintenance cycle ends)	Setting range	setting			

Item No.	Description								
U402	Adjusting margins of image printing								
	Adjustment 1. Press the start 2. Press the syste	nt if margins are incorrect. key. em menu key. key to output a test pattern. em menu key.							
	Display	Description	Setting range	Initial setting	Change in value per step				
	Lead	Printer leading edge margin	0 to 10.0	3.0	0.1 mm				
	A Margin	Printer left margin	0 to 10.0	2.5	0.1 mm				
	C Margin	Printer right margin	0 to 10.0	2.5	0.1 mm				
	Trail	Printer trailing edge margin	0 to 10.0	5.0	0.1 mm				
		(3.0 ± 2.5 mm) Printer left margin (2.0 +2.0/-1.5 mm) Printer trailing e (3.0 ± 2.5 mm)	dge margin	argin 0/-1.5 mm)					
		Figure 1-3-	15						
	7. Press the start	key. The value is set.							
	Caution Check the copy ima adjustments in mai	age after the adjustment. If the ima ntenance mode. U403 (P.1-3-73) U404 (P.1-3-74)	age is still inco	orrect, per	form the following				
	<b>Completion</b> Press the stop key.	The screen for selecting a mainte	nance item N	o. is displa	ayed.				

m No.	Description							
)3	Adjusting margins for scanning an original on the contact glass							
	<b>Description</b> Adjusts margins for scanning the original on the contact glass. <b>Purpose</b> Perform the adjustment if margins are incorrect.							
	1. 2. 3. 4.	Press the syste	m menu key. al and press the start key to make	a test copy.				
		Display	Description	Setting range	Initial setting	Change in value per step		
		A Margin	Scanner left margin	0 to 10.0	2.0	0.5 mm		
		B Margin	Scanner leading edge margin	0 to 10.0	2.0	0.5 mm		
		C Margin	Scanner right margin	0 to 10.0	2.0	0.5 mm		
		D Margin	Scanner trailing edge margin	0 to 10.0	2.0	0.5 mm		
			Scanner leading (3.0 ± 2.5 mm)	g edge margin				
			(3.0 ± 2.5 mm) Scanner	Scanneright ma (2.5 +1.				
			(3.0 ± 2.5 mm) Scanner left margin (2.5 +1.5/-2.0 mm) Scanner trailing (3.0 ± 2.0 mm) Figure 1-3-	Scanneright ma (2.5 +1.	argin			
	7.	Press the start	(3.0 ± 2.5 mm) Scanner	Scanneright ma (2.5 +1.	argin			





em No.		Description				
U411	Adjusting the scan	ner automatically				
	<ul> <li>Description</li> <li>Uses a specified original and automatically adjusts the following items in the scanner and the DF scanning sections.</li> <li>Scanner section: Original size magnification, leading edge timing, center line, input gamma, input gamma in monochrome mode and matrix</li> <li>DP scanning section: Original size magnification, leading edge timing, center line</li> <li>Purpose</li> <li>To perform automatic adjustment of various items in the scanner and the DP scanning sections.</li> </ul>					
	Method 1. Press the start ke 2. Select the item.	≥у.				
	Display	Description	Original to be used for adjustment (P/N)			
	Table	Automatic adjustment in the scanner sec- tion	7505000005			
	DP	Automatic adjustment in the DP scanning section:	303LJ57010			
	All	Performs automatic adjustment in the DP scanning section following automatic adjustment in the scanner section	7505000005/ 303LJ57010			
	Target	Set-up for obtaining the target value	-			
	ing maintenance 2. Set a specified of 3. Enter maintenand 4. Select [Target]. 5. Select [U425] usi 6. Select [Table].	values which are shown on the specified origina item U425. riginal (P/N: 7505000005) on the platen. ce item U411. ng the cursor left/right keys. ey. Auto adjustment starts.	al (P/N: 7505000005) exec			
	The accuracy of adju 1. Set a specified of 2. Enter maintenand 3. Select [Target]. 4. Select [Auto] usin 5. Select [Table].	stment is worse than the manual entry. riginal (P/N: 7505000005) on the platen.				
		tic adjustment has normally completed, [OK] is auto adjustment, [NG XX] (XX is replaced by a	an error code) is displayed			

Item No.		Description
U411	Method: DP	
	3. Press the * : When occurs and op	<sup>D</sup> ]. cified original (P/N: 303LJ57010) in the DP. start key. Auto adjustment starts. automatic adjustment has normally completed, [OK] is displayed. If a problem a during auto adjustment, [NG XX] (XX is replaced by an error code) is displayed peration stops. Should this happen, determine the details of the problem and repea pocedure from the beginning.
	Error Coo	les
	Codes	Description
	00	Automatic adjustment success
	01	Black band detection error (scanner leading edge registration)
	03	Black band detection error (scanner main scanning direction magnification)
	04	Black band is not detected (scanner leading edge registration)
	05	Black band is not detected (scanner center line)
	06	Black band is not detected (scanner main scanning direction magnification)
	07	Black band is not detected (scanner auxiliary scanning direction magnification)
	08	Black band is not detected (DP main scanning direction magnification far end)
	09	Black band is not detected (DP main scanning direction magnification near end)
	0a	Black band is not detected (DP auxiliary scanning direction magnification lead- ing edge)
	0b	Black band is not detected (DP auxiliary scanning direction magnification lead- ing edge original check)
	0c	Black band is not detected (DP auxiliary scanning direction trailing edge)
	0d	White band is not detected (DP auxiliary scanning direction trailing edge 2)
	0e	DMA time out
	Of	Auxiliary scanning direction magnification error
	10	Auxiliary scanning direction leading edge detection error
	11	Auxiliary scanning direction trailing edge detection error
	12	Auxiliary scanning direction skew 1.5 error
	13	Maintenance request error
	14	Main scanning direction center line error
	15	Main scanning direction skew 1.5 error
	16	Main scanning direction magnification error
	17	Service call error
	18	DP paper misfeed error

tem No.		Description
U411		
	Codes	Description
	1a	Original error (Dirt of the original for adjustment and damage)
	1b	Original error (scanner input gamma adjustment)
	1c	Original error (scanner matrix adjustment)
	63	TestRAW acquisition completion
	<b>Completion</b> Press the stop	o key. The screen for selecting a maintenance item is displayed.

Item No.		Description			
U425	Setting the target				
	<ul> <li>Description</li> <li>Enters the lab values that is indicated on the back of the chart (P/N: 750500005) adjustment.</li> <li>Purpose</li> <li>Performs data input in order to correct for differences in originals during automatic</li> </ul>				
	Method 1. Press the start key. 2. Select the item to be set	i.			
	Display	Desc	ription		
	White	Setting the white patch for the	original for adjustment		
	Black	Setting the black patch for the	original for adjustment		
	Gray1	Setting the Gray1 patch for the	e original for adjustment		
	Gray2	Setting the Gray2 patch for the	e original for adjustment		
	Gray3	Setting the Gray3 patch for the	e original for adjustment		
	С	Setting the cyan patch for the c	original for adjustment		
	М	Setting the magenta patch for t	the original for adjustment		
	Y	Setting the yellow patch for the	e original for adjustment		
	R	Setting the red patch for the or	iginal for adjustment		
	G	Setting the green patch for the	original for adjustment		
	В	Setting the blue patch for the o	riginal for adjustment		
	Adjust Original	Setting the main and auxiliary	scanning directions		
	3. Select the item to be set	i.			
	Display	Description	Setting range		
	L	Setting the L value	0.0 to 100.0		
	а	Setting the a value	-200.0 to 200.0		
	b	Setting the b value	-200.0 to 200.0		
	<ol> <li>Enters the value that is in numeric keys.</li> <li>Press the start key. The</li> </ol>		using the cursor left/right keys or		

Item No.	Description							
U425	Setting: [Adjust Original] 1. Measure the distance from the leading edge to the top of black belt 1 of the original at A, B							
	and C.							
	Measurement procedure							
	<ol> <li>Measure the distance from the leading edge to the top of black belt 1 of the original at A (30 mm from the left edge), B (148.5 mm from the left edge) and C (267 mm from the left</li> </ol>							
	edge), respectively.							
	2) Apply the following formula for the values obtained: ((A + B + C) / 3)							
	2. Enter the values solved using the cursor left/right keys or numeric keys in [Dist1].							
	<ol> <li>Press the start key. The value is set.</li> <li>Measure the distance from the left edge to the right edge black belt 2 of the original at F.</li> </ol>							
	Measurement procedure							
	1) Measure the distance from the left edge to the right edge black belt 2 of the original at F							
	(15 mm from the top edge of black belt 1).							
	5. Enter the values using the cursor left/right keys or numeric keys in [Dist2].							
	<ol> <li>Press the start key. The value is set.</li> <li>Measure the distance from the top edge of black belt 1 to the bottom of black belt 3 of the</li> </ol>							
	original at D and E.							
	1) Measure the distance from the top edge of black belt 1 to the bottom of black belt 3 of the							
	original at D (30 mm from the left edge) and E (267 mm from the left edge), respectively.							
	<ul> <li>2) Apply the following formula for the values obtained: (D/2 + E/2)</li> <li>8. Enter the measured value using the cursor left/right keys or numeric keys in [Dist3].</li> </ul>							
	9. Press the start key. The value is set.							
	30mm 148.5mm 267mm → →							
	A     Black belt 1     B     C     Leading edge							
	Black							
	helt 2							
	Φ [DIST1]=(A+B+C)/3							
	ebbo       [DIST1]=(A+B+C)/3         [DIST2]=F         [DIST3]=D/2+E/2							
	• [DIST2] + [DIST3]=D/2+E/2							
	COLOR SCANNER CHART A4							
	Original for adjustment (P/N: 7505000005)							
	Figure 1-3-19							
	Completion							
	Press the stop key. The screen for selecting a maintenance item No. is displayed.							

m No.	•						
J429	Setting the offset for	r the col	or balance				
	<b>Description</b> Displays and changes the density for each color during copying in the various image quality modes. <b>Purpose</b> To change the balance for each color.						
	Method 1. Press the start k 2. Select the image	•	node. The setting screen for t	the selected item is	s displayed.		
	Display	1	De	scription			
	Text + Photo		Density of each color in the	text & photo mode			
	Photo		Density of each color in the	photo mode			
	Text		Density of each color in the	text mode			
	Graphics/Map		Density of each color in the	graphics/map mod	е		
	Copy/Print out		Density of each color in the	printed document r	mode		
	Display		Description	Setting range	Initial set- ting		
	С	Value	of the cyan setting	-5 to 5	0		
	M		of the magenta setting	-5 to 5	0		
	Y		of the yellow setting	-5 to 5	0		
	ĸ		of the black setting	-5 to 5	0		
		, and a		0.00	•		
	<ol> <li>Press the start k</li> <li>Supplement</li> <li>While this maintenand</li> </ol>	ey. The v ce item is	ens the density and decreasi alue is set. being executed, copying fror ed by pressing the system m	n an original is ava			
	<b>Completion</b> Press the stop key. The screen for selecting a maintenance item No. is displayed.						
	-	ne screer	n for selecting a maintenance	item No. is display	ed.		
	-	ne screer	n for selecting a maintenance	item No. is display	ed.		
	-	ne screer	n for selecting a maintenance	item No. is display	ed.		
	-	ne screer	n for selecting a maintenance	item No. is display	ed.		
	-	ne screer	n for selecting a maintenance	item No. is display	ed.		
	-	ne screer	n for selecting a maintenance	item No. is display	ed.		
	-	ne screer	n for selecting a maintenance	item No. is display	ed.		

m No.			Description		
432	Setting the center of	fset fo	or the exposure		
	tion. For example, if th	ne valu image	setting data for exposure centering a le for the exposure centering adjustr processing is performed as though nce of the user.	nent is set to -	1 and you cha
	<b>Setting</b> 1. Press the start key 2. Select the item to		. The setting screen for the selected	item is displa	ved.
	Display		Descripti		<b>,</b>
	Color		Exposure offset setting for the colo	r mode	
	B/W		Exposure offset setting for the blac	k and white m	node
	<ol> <li>Select image qual</li> <li>Change the setting</li> </ol>	•	de to be set. e using the cursor left/right keys or n	-	
	Display		Description	Setting range	Initial setting
	Text + Photo	Offs	et value for the text & photo mode	-3 to 3	0
	Photo	Offs	et value for the photo mode	-3 to 3	0
	Text	Offs	et value for the text mode	-3 to 3	0
	images is dark If the setting va images is light 5. Press the start key Supplement While this maintenanc	er. alue is er. y. The ce iterr	increased to increase the exposure decreased to decrease the exposur value is set. It is being executed, copying from an vated by pressing the system menu	e centering ac original is ava	ljustment value
	Completion Press the stop key. Th	ne scre	en for selecting a maintenance item	ı No. is display	ved.

timing of calibration durin enabling custom setting <b>Purpose</b>	bration) on or off. Also, this determines t ng printing. Also, this allows individual se				
Turns ID correction (cali timing of calibration durin enabling custom setting: <b>Purpose</b>	ng printing. Also, this allows individual se				
Turns ID correction (calibration) on or off. Also, this determines the duration of calibration and the timing of calibration during printing. Also, this allows individual settings for calibration operation be enabling custom settings.					
Method					
1. Press the start key.	e set. The setting screen for the selected	d item is displa	yed.		
Display	Descri	ption			
Permission	Setting of operation permission				
Time Interval	Setting of driving time				
Bias Target	Setting of Bias target				
Gamma Target	Setting of quantities of light targ	et			
Calib	Execution of calibration	Execution of calibration			
Calib	Setting the permission of calibration.	On/Off	On		
Display	Description	Setting range	Initial set- ting		
Paper Int Calib	Setting the permission of calibration	On/Off	On		
	between paper.				
<ol> <li>3. Press the start key.</li> <li>Setting: [Time Interval]</li> <li>1. Select the item to be</li> <li>2. Change the setting value</li> </ol>	]				
Display	Description	Setting	Initial set-		
Paper Int Calib	Setting the driving time of the calibra- tion between paper.	0 to 100	10		
Sleep Out	Setting the execution time of sleeve return calibration.	0 to 100	20		
3. Press the start key.	The value is set.				

U464				Description				
	-	[Bias Target/G ct the item to be		Target]				
				sing the +/- or numeric keys.				
		Display		Description	Setting range	Initial set- ting		
	1st		Setting	g of target (Yellow)	10 to 1000	935/400		
	2nc	2nd Set		g of target (Cyan)	10 to 1000	895/200		
	3rd	l	Settin	g of target (Magenta)	10 to 1000	885/200		
	4th	l	Setting	g of target (Black)	10 to 1000	846/130		
	Method:	s the start key. T <b>[Calib]</b> ct the item to be		ue is set.				
	2. Press	s the start key. T	The ope		corintion			
	Po	Display gist			escription			
		mma		Executes the calibration to correct registration. Executes the calibration to quantities of light.				
		per Int		Executes the calibration between paper.				
		lor Regist		Executes the calibration to color registration.				
	Complet Press the		screen	for selecting a maintenance	item No. is display	red.		
	-		screen	for selecting a maintenance	item No. is display	red.		
	-		screen	for selecting a maintenance	item No. is display	red.		
	-		screen	for selecting a maintenance	item No. is display	red.		
	-		screen	for selecting a maintenance	item No. is display	red.		
	-		screen	for selecting a maintenance	item No. is display	red.		

ltem No.			Description				
U470	Setting the JPEG co	ompress	ion ratio				
	<ul> <li>Description</li> <li>Sets the compression ratio for JPEG images in each image quality mode.</li> <li>Purpose</li> <li>To change the setting in accordance with the image that the user is copying. For example, order to soften the coarseness of the image when making copies at over 200% magnificat change the level of compression by raising the value. Lowering the value will increase the pression and thereby lower the image quality; Raising the value will increase image quality lower the image processing speed.</li> </ul>						
	Method 1. Press the start ke 2. Select the item to	•					
	Display		Descrip	tion			
	Сору		Compression ratio for copying				
	Send		Compression ratio for sending				
	System		Compression ratio for temporary	storage in syst	em		
	1. Select the item to Display Photo		Description           Compression ratio in the photo mode				
	2. Select the item to 3. Change the settin		Compression ratio in the text mod		Initial		
	Display		Description	range	setting		
	Y	Com	pression ratio of brightness	1 to 100	85		
	CbCr	Com	pression ratio of color differential	1 to 100	85		
	4. Press the start ke	-					

m No.				Description				
470		ting: [Send] Select the item to	be set.					
		Display		Description				
		Photo		Compression ratio in the photo	mode			
		Text		Compression ratio in the text m	ode			
	HC-PDF Compression ratio of high compression PDF							
		Select the item to Change the setting [Photo] or [Text]		using the cursor left/right keys o	r numeric ke	ys.		
		Display		Description	Setting range	Initial setting		
		Y1 to Y5	Compr	ession ratio of brightness	1 to 100	30/40/51/70/90		
		CbCr1 to CbCr5	Compr	ession ratio of color differential	1 to 100	30/40/51/70/90		
		[HC-PDF]			I			
		Display		Description	Setting range	Initial setting		
		Y3 to Y3	Compression ratio of brightness		1 to 100	15/25/60		
		CbCr3 to CbCr3	Compr	ression ratio of color differential	1 to 100	15/25/60		
	1.	ting: [System] Select the item to Change the setting Display		using the cursor left/right keys o Description	Setti	ng Initial		
			0	-	rang			
		Y		pression ratio of brightness	1 to 100			
		CbCr		pression ratio of color differential	1 to 100	90		
	Sul Wh cop	ying mode (which mpletion	e item i is activa	s being executed, copying from ated by pressing the system mer en for selecting a maintenance ite	nu key).			
				a namenance la		ipiayeu.		

n No.		Description		
473	Adjusting laser po	ower output		
	Description			
	Adjusts the laser of	utput power for each color.		
	Purpose	e density correction data after replacing the lase		
			ti scanner unit.	
;	Setting			
	1. Press the start			
	2. Select the item	to be set. tting value using the cursor left/right keys or nu	meric keys	
	Display	Description	Setting	Initial
	Display	Description	range	setting
	1st	Setting the LSU laser power (Yellow)	0 to 255	92
	2nd	Setting the LSU laser power (Cyan)	0 to 255	92
	3rd	Setting the LSU laser power (Magenta)	0 to 255	92
	4th	Setting the LSU laser power (Black)	0 to 255	50
		key. The value is set.		
	Completion Press the stop key.	. The screen for selecting a maintenance item N	No. is displayed.	
		. The screen for selecting a maintenance item N	No. is displayed.	
		The screen for selecting a maintenance item N	No. is displayed.	
		. The screen for selecting a maintenance item N	No. is displayed.	
		. The screen for selecting a maintenance item N	No. is displayed.	
		. The screen for selecting a maintenance item N	No. is displayed.	
		The screen for selecting a maintenance item N	No. is displayed.	
		. The screen for selecting a maintenance item N	No. is displayed	
		. The screen for selecting a maintenance item N	No. is displayed.	
		The screen for selecting a maintenance item N	No. is displayed.	
		. The screen for selecting a maintenance item N	No. is displayed.	
		The screen for selecting a maintenance item N	No. is displayed.	
		The screen for selecting a maintenance item N	No. is displayed.	
		The screen for selecting a maintenance item N	No. is displayed	
		The screen for selecting a maintenance item N	No. is displayed.	
		. The screen for selecting a maintenance item N	No. is displayed.	

Item No.		Description
U901	Checking copy counts by	paper feed locations
	Purpose	nts by paper feed locations. e consumable parts. Also to clear the counts after replacing the con-
	Method 1. Press the start key. The	counts by paper feed locations are displayed.
	Display	Description
	MPT	MP tray
	Cassette1	Cassette 1
	Cassette2	Cassette 2 (optional paper feeder)
	Cassette3	Cassette 3 (optional paper feeder)
	Duplex	Duplex unit
	<ul> <li>When an optional paper played.</li> <li>Clearing <ol> <li>Select the counts to be [Cassette2] and [Casse</li> <li>Select the counts for all</li> <li>Press the start key. The</li> </ol> </li> </ul>	tte3] cannot be cleared. and press [Clear].
	Press the stop key. The scr	een for selecting a maintenance item No. is displayed.

		Description
U903	Checking/clearing the paper	jam counts
	<b>Description</b> Displays or clears the jam cou <b>Purpose</b> To check the paper jam status	ints by jam locations. . Also to clear the jam counts after replacing consumable parts.
	<b>Method</b> 1. Press the start key. 2. Select the item.	
	Display	Description
	Cnt	Displays/clears the jam counts
	Total Cnt	Displays the total jam counts
	<ol> <li>Change the screen using t</li> <li>Select the count value for The individual counter can</li> <li>Press the start key. The co</li> <li>Method: [Total Cnt]</li> </ol>	jam code and press [Clear]. not be cleared. ounter value is cleared. al number of jam code by type is displayed. the cursor up/down keys.
	Press the stop key. The screen	n for selecting a maintenance item No. is displayed.

tem No.		Description
U904	Checking/clearing the call f	or service counts
	<b>Description</b> Displays or clears the service <b>Purpose</b> To check the service call code Also to clear the service call c	
	Method 1. Press the start key. 2. Select the item.	
	Display	Description
	Cnt	Displays/clears the call for service counts
	Total Cnt	Displays the total call for service counts
	<ol> <li>Change the screen using The total number of servic</li> <li>Completion</li> </ol>	al number of service call counts by type is displayed.

Item No.			Description			
U905	Checking counts by	option	al devices			
	<b>Description</b> Displays the counts of document processor or document finisher. <b>Purpose</b>					
	-	locumen	t processor or document finisher.			
	Method 1. Press the start ke 2. Select the device		necked. The count of the selected device is displayed.			
	Display		Description			
	DP		Counts of document processor			
	DF		Counts of document finisher			
	DP					
	Display		Description			
	ADP	Coun	ts of single-sided originals that has passed through the DP			
	RADP	Coun	ts of double-sided originals that has passed through the DP			
	DF					
	Display		Description			
	Sorter		Counts of copies that has passed through the sorter			
	Staple		Frequency the stapler has been activated			
11010			en for selecting a maintenance item No. is displayed.			
U910	Clearing the print co	overage	data			
	Purpose		for the print coverage per A4 size paper. mes such as during maintenance service.			
	Method 1. Press the start ke 2. Select [Execute]. 3. Press the start ke	-	rint coverage data is cleared.			
	<b>Completion</b> Press the stop key. T	he scree	en for selecting a maintenance item No. is displayed.			

tem No.			Descriptior	1	
U917	Setting backup data	a reading	g/writing		
	Description				
		data to	a USB memory from the	machine; or writes the data from the US	
	memory to the mach				
	Purpose				
	Machine information <b>Method</b>	is backe	d up and restored.		
		kev on th	e operation panel and a	after verifying the power indicator has gon	
	off, switch off the	-	• • •		
	2. Insert USB memo	•	•		
	3. Turn the main po				
	4. Enter the mainter		ow the machine to recog	inize the USB memory.	
	5. Press the start ke				
		•	and press the start key.		
	Display			Description	
	Import	SB memory to the machine			
	Export		Retrieving from the made	chine to a USB memory	
	7. Select the item.				
	Display		Description	Depending data	
	Address Book	Addres	ss book	-	
	Job Account	Job ac	counting	-	
	One Touch	Inform	ation on one-touch key	Address book	
	User	User n	nanagements	Job accounting	
	Program	Progra	m information	Job accountings and user manage- ments	
	Shortcut	Shortc	ut information	Job accountings, user managements and document box information	
	Document Box	Docum	nent box information	Job accountings and user manage- ments	
	Fax Forward	FAX tra	ansfer information	Job accountings, user managements and document box information	
	IC Card	IC Car	d information	-	
	retrieved or w 8. Select [On] using 9. Press the start ke The progress of s When an error oc 10. When normally c	ritten in. the curs ey. Starts selected ccurs, the ompleted	or left/right keys. reading or writing. item is displayed in %. e operation is canceled a d, [Fin] is displayed.	a other than those assigned are also and an error code is displayed. leting writing when selecting [Import].	

tem No.		Desc	ription	
U917	Error Cod	es		
	Codes	Description	Codes	Description
	e002	Parameter error	e31e	User managements error
	e003	File write error	e31f	User managements open error
	e004	File initialization error	e320	User managements error
	e005	File error	e321	User managements open error
	e006	Processing error	e322	User managements list error
	e010	Address book clear error (contact)	e323	User managements list error
	e011	Address book open error (contact)	e324	Shortcut open error
	e012	Address book list error (contact)	e325	Shortcut list error
	e013	Address book list error (contact)	e326	Shortcut list error
	e014	Address book clear error (group)	e410	Box file open error
	e015	Address book open error (group)	e411	Box error in writing
	e016	Address book list error (group)	e412	Box error in reading
	e017	Address book list error (group)	e413	Box list error
	e110	Job accounting clear error	e414	Box list error
	e111	Job accounting open error	e415	Box error
	e112	Job accounting open error	e416	Box error
	e113	Job accounting error in writing	e417	Box open error
	e114	Job accounting list error	e418	Box close error
	e115	Job accounting list error	e419	Box creation error
	e210	One-touch open error	e41a	Box creation error
	e211	One-touch list error	e41b	Box deletion error
	e212	One-touch list error	e41c	Box movement error
	e310	User managements backup error	e510	Program error in writing
	e311	User managements clear error	e511	Program error in reading
	e312	User managements open error	e710	Fax memory open error
	e313	User managements open error	e711	Fax memory initialization error
	e314	User managements open error	e712	Fax memory list error
	e315	User managements error in writing	e713	Fax memory error
	e316	User managements list error	e714	Fax memory error
	e317	User managements list error	e715	Fax memory mode error
	e318	User managements list error	e716	Fax memory error
	e319	User managements list error	e717	Fax memory error
	e31a	User managements open error	e718	Fax memory mode error
	e31b	User managements error	e910	File reading error
	e31c	User managements error	e911	File writing error
	e31d	User managements open error	e912	Data mismatch

Item No.		Descripti	on	
U917	Error Cod	es		
	Codes	Description	Codes	Description
	e913	Log file open error	d008	File rename error
	e914	Log file error in writing	d009	File open error
	e915	Directory open error	d00a	File close error
	e916	Directory error in reading	d00b	File reading error
	e917	Synchronization error	d00c	File writing error
	e918	Synchronization error	d00d	File copy error
	d000	Unspecified error	d00e	File compressed error
	d001	HDD unavailable	d00f	File decompressed error
	d002	USB memory is not inserted	d010	Directory open error
	d003	File for writing is not found in the USB	d011	Directory creation error
	d004	File for reading is not found in the HDD	d012	File writing error
	d005	USB error in writing	d013	File reading error
	d006	USB error in reading	d014	File deletion error
	d007	USB unmount error	d015	File copy error to the USB
	Suppleme The total a	of the counts back to zero.	ter can be	cleared only once if all count val-
	1. Press 2. Select	the start key. [Execute]. the start key. All copy counts and machine	e life coun	ts are cleared.
	Completic Press the s	on stop key. The screen for selecting a maint	enance ite	em No. is displayed.

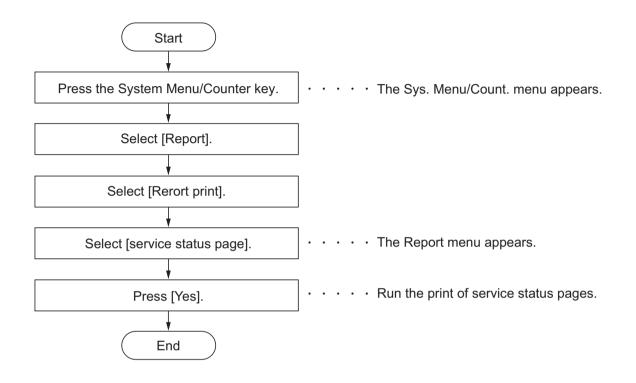
Display         Description         range         setting         value           Front         Deflection of DP paper feed motor (DPPFM)         -50 to 50         0         0.119 r           Back         Deflection of DP switchback motor (DPSBM)         -50 to 50         0         0.119 r           * : The greater the value, the larger the deflection; the smaller the value, the smaller deflection.         if an original non-feed jam or oblique feed occurs, increase the setting value. of original occurs, decrease the value.         7. Press the start key. The value is set.           Completion         Press the stop key. The screen for selecting a maintenance item No. is displayed.           U984         Checking the developing unit number           Description         Displays the developing unit number.           Purpose         To check the developing unit number.           Method         1. Press the start key. The developing unit number for each color is displayed.           Display         Description           C         Cyan developing unit number           M         Magenta developing unit number           K         Black developing unit number	em No.			Description	on					
Adjusts the deflection generated when the document processor is used.         Purpose         Use this mode if an original non-feed jam, oblique feed or wrinkling of original occurs document processor is used.         Setting         1. Press the start key.         2. Press the system menu key.         3. Place an original on the DP and press the start key to make a test copy.         4. Press the system menu key.         5. Select the item to be adjusted.         6. Change the setting value using the cursor left/right keys or numeric keys.!         Image: the deflection of DP paper feed from the deflection of DP paper feed from the original non-feed jam or oblique feed occurs, increase the setting value. deflection.         If an original non-feed jam or oblique feed occurs, increase the setting value. of original occurs, decrease the value.         7. Press the start key. The value is set.         Completion         Press the stop key. The screen for selecting a maintenance item No. is displayed.         Ug84       Checking the developing unit number.         Purpose         To check the developing unit number.         Method         1. Press the start key. The developing unit number for each color is displayed.         Display       Description         Checking the developing unit number.         Method       1. Press the start key. The developing unit number for each color is displayed. <td>U942</td> <td>Setting of deflect</td> <td>tion for feeding</td> <td>g from DP</td> <td></td> <td></td> <td></td>	U942	Setting of deflect	tion for feeding	g from DP						
Adjusts the deflection generated when the document processor is used.         Purpose         Use this mode if an original non-feed jam, oblique feed or wrinkling of original occurs document processor is used.         Setting         1. Press the start key.         2. Press the system menu key.         3. Place an original on the DP and press the start key to make a test copy.         4. Press the system menu key.         5. Select the item to be adjusted.         6. Change the setting value using the cursor left/right keys or numeric keys.!         Image the setting value using the cursor left/right keys or numeric keys.!         Image the setting value using the cursor left/right keys or numeric keys.!         Image the setting value using the cursor left/right keys or numeric keys.!         Image the setting value using the cursor left/right keys or numeric keys.!         Image the setting value using the cursor left/right keys or numeric keys.!         Image the setting value using the cursor left/right keys or numeric keys.!         Image the setting value using the cursor left/right keys or numeric keys.!         Image the setting value using the cursor left/right keys or numeric keys.!         Image the setting value using the cursor left/right keys or numeric keys.!         Image the setting value, the larger the deflection; the smaller the value, the smaller the value, the larger the value.         Image the developing unit number         <										
Purpose         Use this mode if an original non-feed jam, oblique feed or wrinkling of original occurs document processor is used.         Setting         1. Press the start key.         2. Press the system menu key.         3. Place an original on the DP and press the start key to make a test copy.         4. Press the system menu key.         5. Select the item to be adjusted.         6. Change the setting value using the cursor left/right keys or numeric keys.! <b>Display Description</b> Front       Deflection of DP paper feed         -50 to 50       0         0.119 r         motor (DPPFM)         Back       Deflection of DP switchback         -50 to 50       0         0.119 r         motor (DPSBM)         *: The greater the value, the larger the deflection; the smaller the value, the smaller the value, and original non-feed jam or oblique feed occurs, increase the setting value.         of original occurs, decrease the value.         7. Press the start key. The value is set.         Completion         Press         Press         Displays the developing unit number.         Purpose         To check the developing unit number.         Method         1. Press the start key. The developing unit number f										
document processor is used.         Setting         1. Press the start key.         2. Press the system menu key.         3. Place an original on the DP and press the start key to make a test copy.         4. Press the system menu key.         5. Select the item to be adjusted.         6. Change the setting value using the cursor left/right keys or numeric keys.! <b>Display</b> Description         Setting       Initial         Change the setting value using the cursor left/right keys or numeric keys.! <b>Display</b> Description         Setting       Initial         Change the setting value using the cursor left/right keys or numeric keys.! <b>Display</b> Description         Setting       Initial         Change the setting value using the cursor left/right keys or numeric keys.!         Image       Front         Deflection of DP paper feed       -50 to 50         Image       Image         Back       Deflection of DP switchback         -50 to 50       0       0.119 r         motor (DPSBM)       *: The greater the value, the larger the deflection; the smaller the value, the smaller the value, the smaller the value.         .1 fan original non-feed jam or oblique feed occurs, increase the setting value.         of original cocurs,										
Setting         1. Press the system menu key.         3. Place an original on the DP and press the start key to make a test copy.         4. Press the system menu key.         5. Select the item to be adjusted.         6. Change the setting value using the cursor left/right keys or numeric keys.! <b>Display Description Front</b> Deflection of DP paper feed         -50 to 50       0         0. 119 r         Back       Deflection of DP switchback         -50 to 50       0         0. 119 r         motor (DPPFM)         Back       Deflection of DP switchback         -50 to 50       0         .* The greater the value, the larger the deflection; the smaller the value, the smadeflection.         If an original non-feed jam or oblique feed occurs, increase the setting value.         of original occurs, decrease the value.         7. Press the start key. The value is set.         Completion         Press the developing unit number         Description         Displays the developing unit number.         Purpose         To check the developing unit number.         Murpose         To check the developing unit number.         Magenta developing unit number         M		Use this mode if a	n original non-fe	eed jam, oblique fe	ed or wrinkling	g of origina	al occurs when th			
<ol> <li>Press the start key.</li> <li>Press the system menu key.</li> <li>Press the system menu key.</li> <li>Press the system menu key.</li> <li>Select the item to be adjusted.</li> <li>Change the setting value using the cursor left/right keys or numeric keys.</li> <li>Eront Deflection of DP paper feed -50 to 50 0 0.119 r motor (DPPFM) Back Deflection of DP switchback -50 to 50 0 0.119 r motor (DPPSM)</li> <li>* The greater the value, the larger the deflection; the smaller the value, the sma deflection. If an original non-feed jam or oblique feed occurs, increase the setting value. of original occurs, decrease the value.</li> <li>Press the start key. The value is set.</li> <li>Completion Displays the developing unit number</li> <li>Press the start key. The developing unit number. Purpose To check the developing unit number.</li> <li>Method</li> <li>Press the start key. The developing unit number for each color is displayed.</li> <li>Display Description C Cyan developing unit number</li> <li>Magenta developing unit number Magenta developing unit number</li> <li>Y Heuse the start key. The developing unit number for each color is displayed.</li> </ol>		document process	or is used.							
<ul> <li>2. Press the system menu key.</li> <li>3. Place an original on the DP and press the start key to make a test copy.</li> <li>4. Press the system menu key.</li> <li>5. Select the item to be adjusted.</li> <li>6. Change the setting value using the cursor left/right keys or numeric keys.!</li> <li><b>Display Description Setting Initial Cha</b> <b>range setting value</b></li> <li><b>Front</b> Deflection of DP paper feed -50 to 50 0 0.119 r motor (DPPFM) Back Deflection of DP switchback -50 to 50 0 0.119 r</li> <li>* : The greater the value, the larger the deflection; the smaller the value, the smaller the value, the start key. The greater the value, the value.</li> <li>r. Press the start key. The value is set.</li> <li><b>Completion</b></li> <li>Press the stop key. The screen for selecting a maintenance item No. is displayed.</li> <li><b>J984 Checking the developing unit number</b></li> <li><b>Description</b></li> <li>Displays the developing unit number.</li> <li><b>Purpose</b></li> <li>To check the developing unit number.</li> <li><b>Method</b></li> <li>1. Press the start key. The developing unit number for each color is displayed.</li> <li><b>Display Cyan</b> developing unit number</li> <li>Magenta developing unit number</li> <li>Method</li> <li>Method</li> <li>Method</li> <li>Press the start key. The developing unit number for each color is displayed.</li> </ul>		Setting								
<ul> <li>3. Place an original on the DP and press the start key to make a test copy.</li> <li>4. Press the system menu key.</li> <li>5. Select the item to be adjusted.</li> <li>6. Change the setting value using the cursor left/right keys or numeric keys.</li> <li>1. Display Description Setting Initial Change is setting value.</li> <li>Front Deflection of DP paper feed -50 to 50 0 0.119 r motor (DPPFM)</li> <li>Back Deflection of DP switchback -50 to 50 0 0.119 r motor (DPPSM)</li> <li>* : The greater the value, the larger the deflection; the smaller the value, the smal deflection.</li> <li>If an original non-feed jam or oblique feed occurs, increase the setting value. of original occurs, decrease the value.</li> <li>7. Press the start key. The value is set.</li> <li>Completion</li> <li>Press the stop key. The screen for selecting a maintenance item No. is displayed.</li> <li>Ug84</li> <li>Checking the developing unit number</li> <li>Description</li> <li>Display the developing unit number.</li> <li>Method</li> <li>1. Press the start key. The developing unit number for each color is displayed.</li> <li>Display</li> <li>Quant developing unit number</li> <li>Magenta developing unit number</li> <li>Magenta developing unit number</li> <li>K ellow developing unit number</li> <li>K ellow developing unit number</li> </ul>			•							
<ul> <li>4. Press the system menu key.</li> <li>5. Select the item to be adjusted.</li> <li>6. Change the setting value using the cursor left/right keys or numeric keys.l</li> <li>         Display         Description         Setting         Initial         Change the setting value using the cursor left/right keys or numeric keys.l     </li> <li>         Display         Description         Setting         Initial         Change the setting value using the cursor left/right keys or numeric keys.l     </li> <li>         Display         Description         Setting         Initial         Change the setting value using the cursor left/right keys or numeric keys.l     </li> <li>         Front         Deflection of DP paper feed         -50 to 50         0         0.119 r         motor (DPPFM)         Back         Deflection of DP switchback         -50 to 50         0         0.119 r         motor (DPSBM)         * The greater the value, the larger the deflection; the smaller the value, the smaleflection.         If an original non-feed jam or oblique feed occurs, increase the setting value.         of original occurs, decrease the value.         7. Press the start key. The value is set.         Completion         Press the stop key. The screen for selecting a maintenance item No. is displayed.         J984         Checking the developing unit number.         Purpose         To check the developing unit number.         Purpose         To check the developing unit number.         Method         1. Press the start key. The developing unit number for each color is displayed.         Display         Description         C cyan developing unit number         M dagenta developing unit number</li></ul>										
<ul> <li>5. Select the item to be adjusted.</li> <li>6. Change the setting value using the cursor left/right keys or numeric keys.l</li> <li>Display Description Setting Initial value</li> <li>Front Deflection of DP paper feed -50 to 50 0 0.119 r motor (DPPFM)</li> <li>Back Deflection of DP switchback -50 to 50 0 0.119 r</li> <li>* The greater the value, the larger the deflection; the smaller the value, the smaller flar original non-feed jam or oblique feed occurs, increase the setting value.</li> <li>original occurs, decrease the value.</li> <li>Press the start key. The value is set.</li> <li>Completion</li> <li>Press the stop key. The screen for selecting a maintenance item No. is displayed.</li> <li>J984 Checking the developing unit number</li> <li>Description</li> <li>Display In the developing unit number.</li> <li>Purpose</li> <li>To check the developing unit number.</li> <li>Purpose</li> <li>To check the developing unit number.</li> <li>Method</li> <li>Press the start key. The developing unit number for each color is displayed.</li> </ul>		-		nd press the start k	key to make a	test copy.				
6. Change the setting value using the cursor left/right keys or numeric keys.!         Display       Description       Setting       Initial       Cha         Front       Deflection of DP paper feed       -50 to 50       0       0.119 r         Back       Deflection of DP switchback       -50 to 50       0       0.119 r         * The greater the value, the larger the deflection; the smaller the value, the smadeflection.       If an original non-feed jam or oblique feed occurs, increase the setting value.         of original occurs, decrease the value.       7. Press the start key. The value is set.       Completion         Press the stop key. The screen for selecting a maintenance item No. is displayed.       J984         Checking the developing unit number.       Purpose         To check the developing unit number.       Purpose         To check the developing unit number.       Description         Display       Description         0.       Cyan developing unit number         C       Cyan developing unit number         M       Magenta developing unit number         Y       Yellow developing unit number										
Display         Description         Setting range         Initial setting         Cha value           Front         Deflection of DP paper feed motor (DPPFM)         -50 to 50         0         0.119 r           Back         Deflection of DP switchback motor (DPSBM)         -50 to 50         0         0.119 r           * : The greater the value, the larger the deflection; the smaller the value, the sma deflection. If an original non-feed jam or oblique feed occurs, increase the setting value. of original occurs, decrease the value.         7. Press the start key. The value is set.           Completion         Press the stop key. The screen for selecting a maintenance item No. is displayed.         J984           Description         Displays the developing unit number. Purpose         Purpose           To check the developing unit number.         Description           Display         Description           Display         Cyan developing unit number.           Method         1. Press the start key. The developing unit number for each color is displayed.           Display         Description           C         Cyan developing unit number           M         Magenta developing unit number           K         Black developing unit number			•		ht keys or nur	meric kevs	.l			
Display         Description         range         setting         value           Front         Deflection of DP paper feed motor (DPPFM)         -50 to 50         0         0.119 r           Back         Deflection of DP switchback motor (DPSBM)         -50 to 50         0         0.119 r           * : The greater the value, the larger the deflection; the smaller the value, the smal deflection. If an original non-feed jam or oblique feed occurs, increase the setting value. of original occurs, decrease the value.         7. Press the start key. The value is set.           Completion         Press the stop key. The screen for selecting a maintenance item No. is displayed.           U984         Checking the developing unit number           Description         Displays the developing unit number.           Method         1. Press the start key. The developing unit number for each color is displayed.           Image: Color of the screen of the developing unit number for each color is displayed.           Method         1. Press the start key. The developing unit number for each color is displayed.           Image: Color of the developing unit number.         Magenta developing unit number           M         Magenta developing unit number           K         Black developing unit number							Change in			
Back       motor (DPPFM) Deflection of DP switchback motor (DPSBM)       -50 to 50       0       0.119 r 0.119 r         * : The greater the value, the larger the deflection; the smaller the value, the smaller deflection. If an original non-feed jam or oblique feed occurs, increase the setting value. of original occurs, decrease the value.       .         7. Press the start key. The value is set.       Completion         Press the stop key. The screen for selecting a maintenance item No. is displayed.         U384       Checking the developing unit number         Description         Displays the developing unit number.         Purpose         To check the developing unit number.         Method         1. Press the start key. The developing unit number for each color is displayed.         Display       Description         C       Cyan developing unit number         M       Magenta developing unit number         Y       Yellow developing unit number         Y       Yellow developing unit number		Display	De	scription	-		value per step			
motor (DPSBM)       image: start leveloping unit number         * : The greater the value, the larger the deflection; the smaller the value, the smaller the value, the smaller the value, the smaller the value, the smaller the original occurs, decrease the value.         * : The greater the value, the larger the deflection; the smaller the value, the smaller the value, the smaller the value, the smaller the value, of original occurs, decrease the value.         * : Press the start key. The value is set.         Completion         Press the stop key. The screen for selecting a maintenance item No. is displayed.         U984         Checking the developing unit number         Description         Displays the developing unit number.         Purpose         To check the developing unit number.         Method         1. Press the start key. The developing unit number for each color is displayed.         Display       Description         C       Cyan developing unit number         M       Magenta developing unit number         M       Magenta developing unit number         Y Yellow developing unit number       Yellow developing unit number		Front			-50 to 50	0	0.119 mm			
deflection.       If an original non-feed jam or oblique feed occurs, increase the setting value. of original occurs, decrease the value.         7. Press the start key. The value is set.         Completion         Press the stop key. The screen for selecting a maintenance item No. is displayed.         U984         Checking the developing unit number         Description         Displays the developing unit number.         Purpose         To check the developing unit number.         Method         1. Press the start key. The developing unit number for each color is displayed.         Display       Description         1. Press the start key. The developing unit number for each color is displayed.         Visual developing unit number.         Method         1. Press the start key. The developing unit number for each color is displayed.         Visual developing unit number         V       Cyan developing unit number         M       Magenta developing unit number         Y       Yellow developing unit number         K       Black developing unit number		Back			-50 to 50	0	0.119 mm			
U984       Checking the developing unit number         Description       Displays the developing unit number.         Purpose       To check the developing unit number.         To check the developing unit number.       Method         1. Press the start key. The developing unit number for each color is displayed.         Display       Description         C       Cyan developing unit number         M       Magenta developing unit number         Y       Yellow developing unit number         K       Black developing unit number		7. Press the start								
Description         Displays the developing unit number.         Purpose         To check the developing unit number.         Method         1. Press the start key. The developing unit number for each color is displayed.         Display       Description         C       Cyan developing unit number         M       Magenta developing unit number         Y       Yellow developing unit number         K       Black developing unit number		Press the stop key	/. The screen fo	r selecting a maint	enance item N	No. is displa	ayed.			
Displays the developing unit number. Purpose To check the developing unit number. Method 1. Press the start key. The developing unit number for each color is displayed. Display Description C Cyan developing unit number M Magenta developing unit number Y Yellow developing unit number K Black developing unit number	U984	Checking the dev	veloping unit n	umber						
Display       Description         C       Cyan developing unit number         M       Magenta developing unit number         Y       Yellow developing unit number         K       Black developing unit number		Displays the devel <b>Purpose</b>								
CCyan developing unit numberMMagenta developing unit numberYYellow developing unit numberKBlack developing unit number			rt key. The deve	eloping unit numbe	r for each cold	or is displa	yed.			
MMagenta developing unit numberYYellow developing unit numberKBlack developing unit number		Dis	splay	Description						
MMagenta developing unit numberYYellow developing unit numberKBlack developing unit number		С		Cyan developing u	unit number					
YYellow developing unit numberKBlack developing unit number		М				er				
K Black developing unit number				•	•					
Completion										
Press the stop key. The screen for selecting a maintenance item No. is displayed.		Completion Press the stop key	. The screen for	r selecting a maint	enance item N	lo. is displa	ayed.			
				0		1	-			

em No.		Description
U985	Displaying the developer	history
	Description	
	-	machine number and the developer counter.
	Purpose	
	lo check the count value of	f machine number and the developer counter.
	Method	
	1. Press the start key.	
	2. Select the color to che	
	Display	Description
	С	Cyan developing unit past record
	M	Magenta developing unit past record
	Y	Yellow developing unit past record
	ĸ	Black developing unit past record
	3. The history of a machin three cases.	ne number and a developing counter for each color is displayed by
	Display	Description
	Machine History 1 - 3	Historical records of the machine number
	Cnt History 1 - 3	Historical records of developer counter
	Cnt History 1 - 3	
	Cnt History 1 - 3	Historical records of developer counter
	Cnt History 1 - 3	Historical records of developer counter
	Cnt History 1 - 3	Historical records of developer counter
	Cnt History 1 - 3	Historical records of developer counter
	Cnt History 1 - 3	Historical records of developer counter
	Cnt History 1 - 3	Historical records of developer counter
	Cnt History 1 - 3	Historical records of developer counter
	Cnt History 1 - 3	Historical records of developer counter
	Cnt History 1 - 3	Historical records of developer counter
	Cnt History 1 - 3	Historical records of developer counter
	Cnt History 1 - 3	Historical records of developer counter
	Cnt History 1 - 3	Historical records of developer counter
	Cnt History 1 - 3	Historical records of developer counter
	Cnt History 1 - 3	Historical records of developer counter
	Cnt History 1 - 3	Historical records of developer counter
	Cnt History 1 - 3	Historical records of developer counter
	Cnt History 1 - 3	Historical records of developer counter

# 1-3-2 Service mode

The machine is equipped with a maintenance function which can be used to maintain and service the machine.

### (1) Printing the service status page



Service items	Description
Service Status	Printing a status page for service purpose
	Description
	Prints a status page for service purpose. The status page includes various settings and service cumulative.
	Purpose
	To acquire the current printing environmental parameters and cumulative information.
	Method
	1. Select [Service status].
	2. Select [YES].
	Two pages will be printed.
	Completion
	Press the System Menu/Counter key.

#### 2KZ/2K0

vice items			Description		
	Service statu	is page (1)			
	Service S	Status Page		<b>(2)</b> 10/10/20	
(1	Firmware version 2	2KZ_2000.000.000 2010.10.10	(3) [XXXXXXXX	<b>(4)</b> ] [XXXXXXX] [XX	<b>(5)</b> XXXXXX]
() () (1) (1) (1) (1) (1) (1) (1) (1) (1	<ul> <li>6) Total <ul> <li>K: 1.10</li> <li>C: 2.20</li> <li>M: 3.30</li> <li>Y: 4.40</li> </ul> </li> <li>7) Copy <ul> <li>K: 1.10</li> <li>C: 2.20</li> <li>M: 3.30</li> <li>Y: 4.40</li> </ul> </li> <li>8) Printer <ul> <li>K: 1.10</li> <li>C: 2.20</li> <li>M: 3.30</li> <li>Y: 4.40</li> </ul> </li> <li>8) Printer <ul> <li>K: 1.10</li> <li>C: 2.20</li> <li>M: 3.30</li> <li>Y: 4.40</li> </ul> </li> <li>9) FAX <ul> <li>K: 1.10</li> <li>O) Period</li> </ul> </li> </ul>	128.0 KB 128.0 KB 256.0 KB +01:00 Tokio 10/10/2010 12:00 10.183.53.13 s Cassette for Kit (B) Installed / Usage Page(A4/Letter Convert / 1111111.11 / 2222222.22 / 333333.33 / 444444.44 / 111111.11 / 2222222.22 / 333333.33 / 444444.44 / 111111.11 / 222222.22 / 333333.33 / 444444.44 / 111111.11 / 222222.22 / 333333.33 / 444444.44 / 111111.11 / 222222.22 / 333333.33 / 444444.44	PDF mode	A1+A2/100 A3+A4/100	0.00
	<ol> <li>Rings (FAX/TEL)</li> <li>Rings (TAD)</li> </ol>	3 3			
	5) Option DIMM Siz				
-			1	<b>(6)</b> [XXXXXXXXXX	xxxxxx
L					
			Figure 1-3-20		

Service items		Dese	cription	
	Service status page	e (2)		
- - (27 (24	Service State MFP Firmware version 2KZ_2000 Engine Information 7) NVRAM Version 8) FAX FAX BOOT Version FAX IPL Version FAX IPL Version FAX IPL Version	0.000.000 2010.10.10 _1F31225_1F31225 2K3_5000.001.001 2K3_5100.001.001 2K3_5200.001.001	[XXXXXXX] [XXXX Send Informatic (31) Date and Time (32) Address	10/10/2010 12:00 XXXXX] [XXXXXXXX] Dn 10/10/10
	9) MAC Address 0) DP Counters Total	00:C0:EE:D0:01:0D 1234		
(33 (34 (39 (59) (50)	<ul> <li>5) 0000/0000/0000/0000/0000/0000/0000/00</li></ul>	0000000/ //0//abcde/1/0 (40) (41) (42 (52) (53) (54 0000/0000/0000/0000/0000/00 0000/0000/0000/0000/0000/00 0000/0000/0000/0000/0000/00 0000/0000/0000/0000/000 0000/0000/0000/0000/00 0000/0000/0000/000 0000/0000/0000/000 0000/000/	00/0000/0000/0000/0000/0000/ 00/0000/0000/0000/0000/ 78/012345678901234567890123 78/012345678901234567890123 78/012345678901234567890123 78/012345678901234567890123 (62) (63) BEC305/0000000000/000000000000000000000000	45678901/0008/00/07 45678901/0008/00/07 45678901/0008/00/07 45678901/0008/00/07
L				
		Figur	e 1-3-21	

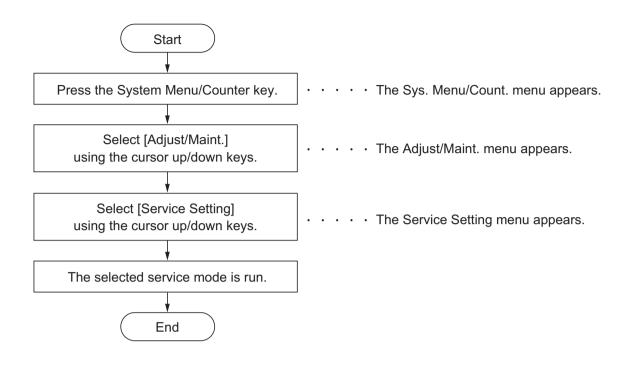
Description         Firmware version         System date         Engine soft version         Engine boot version         Operation panel mask version         Machine serial number         Standard memory size         Optional memory size         Cocal time zone         Report output date         NTP server name         Presence or absence of the optional paper feeder         Presence or absence of the optional IC card authentication	Supplement
Firmware version System date Engine soft version Engine boot version Deration panel mask version Machine serial number Standard memory size Deptional memory size Local time zone Report output date NTP server name Presence or absence of the Deptional paper feeder Presence or absence of the Definitional paper feeder Presence or absence of the Definitional paper feeder Presence or absence of the Definitional paper feeder Definitional	Day/Month/Year hour:minute - Paper feeder 1/Paper feeder 2/Not Installed
System date Engine soft version Engine boot version Operation panel mask version Machine serial number Standard memory size Optional memory size Total memory size Local time zone Report output date NTP server name Presence or absence of the optional paper feeder Presence or absence of the	Day/Month/Year hour:minute - Paper feeder 1/Paper feeder 2/Not Installed
Engine soft version Engine boot version Operation panel mask version Machine serial number Standard memory size Optional memory size Total memory size Local time zone Report output date NTP server name Presence or absence of the optional paper feeder Presence or absence of the	Day/Month/Year hour:minute - Paper feeder 1/Paper feeder 2/Not Installed
Engine boot version Deration panel mask version Machine serial number Standard memory size Defional memory size Total memory size Local time zone Report output date NTP server name Presence or absence of the optional paper feeder Presence or absence of the	Day/Month/Year hour:minute - Paper feeder 1/Paper feeder 2/Not Installed
Deperation panel mask version Machine serial number Standard memory size Deptional memory size Total memory size Local time zone Report output date NTP server name Presence or absence of the optional paper feeder Presence or absence of the	- - - - - Day/Month/Year hour:minute - Paper feeder 1/Paper feeder 2/Not Installed
Machine serial number Standard memory size Deptional memory size Total memory size Local time zone Report output date NTP server name Presence or absence of the optional paper feeder Presence or absence of the	- - - - Day/Month/Year hour:minute - Paper feeder 1/Paper feeder 2/Not Installed
Standard memory size Optional memory size Total memory size Local time zone Report output date NTP server name Presence or absence of the optional paper feeder Presence or absence of the	- - - Day/Month/Year hour:minute - Paper feeder 1/Paper feeder 2/Not Installed
Dptional memory size Fotal memory size Local time zone Report output date NTP server name Presence or absence of the optional paper feeder Presence or absence of the	- - Day/Month/Year hour:minute - Paper feeder 1/Paper feeder 2/Not Installed
Total memory size Local time zone Report output date NTP server name Presence or absence of the optional paper feeder Presence or absence of the	- - Day/Month/Year hour:minute - Paper feeder 1/Paper feeder 2/Not Installed
Local time zone Report output date NTP server name Presence or absence of the optional paper feeder Presence or absence of the	- Day/Month/Year hour:minute - Paper feeder 1/Paper feeder 2/Not Installed
Report output date NTP server name Presence or absence of the optional paper feeder Presence or absence of the	- Paper feeder 1/Paper feeder 2/Not Installed
NTP server name Presence or absence of the optional paper feeder Presence or absence of the	- Paper feeder 1/Paper feeder 2/Not Installed
Presence or absence of the optional paper feeder Presence or absence of the	
optional paper feeder Presence or absence of the	
	Installed/Net Installed/Trial
kit	
Page of relation to the A4/Letter	-
Average coverage for total	Black/Cyan/Magenta/Yellow
Average coverage for copy	Black/Cyan/Magenta/Yellow
Average coverage for printer	Black/Cyan/Magenta/Yellow
Average coverage for fax	Black/Cyan/Magenta/Yellow
Cleared date and output date	-
Coverage on the final output bage	-
Number of rings	0 to 15
Number of rings before auto- natic switching	0 to 15
Number of rings before connect- ng to answering machine	0 to 15
Optional DIMM size	-
RPO setting	-
	Average coverage for total Average coverage for copy Average coverage for printer Average coverage for fax Average coverage for fax Cleared date and output date Coverage on the final output age Aumber of rings Aumber of rings before auto- natic switching Aumber of rings before connect- ing to answering machine Apptional DIMM size

items		Description
No.	Description	Supplement
(27)	NV RAM version	_ 1F3 1225 _ 1F3 1225 (a) (b) (c) (d) (e) (f)
		<ul> <li>(a) Consistency of the present software version and the database (underscore): OK * (Asterisk): NG</li> <li>(b) Database version</li> <li>(c) The oldest time stamp of database version</li> <li>(d) Consistency of the present software version and the ME firmware version (underscore): OK * (Asterisk): NG</li> <li>(e) ME firmware version</li> <li>(f) The oldest time stamp of the ME database version</li> <li>(f) The oldest time stamp of the ME database version</li> <li>(g) and (g) are underscored, and (g) and</li> <li>(g) are identical with (g) and (g).</li> </ul>
(28)	Fax firmware version	
(29)	Mac address	
(30)	Number of original feed from DP	_
(31)	The last sent date and time	_
(32)	Transmission address	_
(33)	Destination information	-
(34)	Area information	-
(35)	Margin settings	Top margin/Left margin
(36)	Top offset for each paper source	MP tray/Paper feeder 1/Paper feeder 2/Duplex/ Page rotation
(37)	Left offset for each paper source	MP tray/Paper feeder 1/Paper feeder 2/Duplex/ Page rotation
(38)	Margin/Page length/Page width settings	Top margin integer part/Top margin decimal part/ Left margin integer part/Left margin decimal part/ Page length integer part/Page length decimal part/ Page width integer part/Page width decimal part
(39)	Life counter (The first line)	Machine life/MP tray/Cassette/Paper feeder 1/ Paper feeder 2 /Duplex
	Life counter (The second line)	Drum unit K/Drum unit C/Drum unit M/Drum unit Y/ Intermediate transfer unit/Developer unit K/ Developer unit C/Developer unit M/Developer unit Y/Maintenance kit
(40)	Panel lock information	0: OFF/1: Partial lock/2: Full lock

Service items		Description				
No.	Description	Supplement				
(41)	USB information	U00: Not installed/U01: Full speed/U02: Hi speed				
(42)	Paper handling information	0: Paper source unit select/1: Paper source unit				
(43)	Color printing double count mode	0: All single counts 3: Folio, Single count, Less than 330 mm (length)				
(44)	Black and white printing double count mode	0: All single counts 3: Folio, Single count, Less than 330 mm (length)				
(45)	Billing counting timing	-				
(46)	Temperature (machine inside)	-				
(47)	Temperature (machine outside)	-				
(48)	Relative temperature (machine outside)	-				
(49)	Absolute temperature (machine outside)	-				
(50)	Thermistor temperature (LSU)	-				
(51)	Thermistor temperature (LSU2)	-				
(52)	Fixed assets number	-				
(53)	Job end judgment time-out time	-				
(54)	Job end detection mode	-				
(55)	Media type attributes 1 to 28 (Not used: 18, 19, 20)	Weight settingsFuser settings0: Light0: High1: Normal 11: Middle2: Normal 22: Low3: Normal 33: Vellum4: Heavy 1Duplex settings5: Heavy 20: Disable6: Heavy 31: Enable7: Extra Heavy				
(56)	IO calibration information	-				
(57)	RFID information	-				
(58)	RFID reader/writer version infor- mation	-				
(59)	Toner install mode information	0: Off t: On				
(60)	Soft version of the optional paper feeder	Paper feeder 1/Paper feeder 2				
(61)	Version of the optional message	-				

Service i	tems						Des	scripti	ion				
	No.	Description							Sup	pleme	ent		
	(62)	Version of th			le		-						
	(63)	Version of s	econd	l color	table		-						
	(64)	Maintenanc	e infor	matio	n		-						
	(65)	Altitude					0: Star 1: Higl 2: Higl	h altitu					
	(66)	Charger roll	er cor	rectio	n		1 to 5						
	(67)	Drum serial	numb	er			Black/	Cyan/	'Mage	nta/Ye	ellow		
			Code	conve	ersion	·							
			А	В	С	D	E	F	G	Н	I	J	
			0	1	2	3	4	5	6	7	8	9	
					1								

## (2) Executing a service mode



### (3) Description of service mode

Service items	Description
Enable Repaired Unit	Release the disconnection of the cassette and the document feeder.
	Description
	Restore the system control when the defective unit is replaced to enable the unit. The menu is displayed only when the unit is detached for failure.
	Purpose
	Perform when the defective unit is replaced.
	Method
	1. Enter the service menu.
	<ol> <li>Select [Enable Repaired Unit].</li> <li>Press [Start].</li> </ol>
	Completion
	The unit is automatically powered after execution.

Service items	Description
Maintenance (A)	Reset the counter of the maintenance kit(A).
	<b>Description</b> Reset the kit counter when replacing the maintenance kit. The menu is displayed only when replacing the maintenance kit.
	<b>Purpose</b> Perform when the maintenance kit is replaced.
	<ul><li>Method</li><li>1. Enter the service menu.</li><li>2. Select [Maintenance (A)].</li><li>3. Press [Start].</li></ul>
	<b>Completion</b> Automatically completes when the confirmation display is shown.
Maintenance (B)	Reset the counter of the maintenance kit(B).
	<ul> <li>Description</li> <li>Reset the kit counter when replacing the maintenance kit.</li> <li>The menu is displayed only when replacing the maintenance kit.</li> <li>Purpose</li> <li>Perform when the maintenance kit is replaced.</li> <li>Method <ol> <li>Enter the service menu.</li> <li>Select [Maintenance (B)].</li> <li>Press [Start].</li> </ol> </li> <li>Completion Automatically completes when the confirmation display is shown.</li></ul>

Service items	Description
Center line alighment	Alignment of the cassette and MP tray and duplex
	Description
	Perform settings for the center line adjustment.
	<b>Purpose</b> Perform if the alignment has not been obtained after the center line adjustment.
	Method 1. Enter the service menu. 2. Select [Center Line Adjustment]. 3. Press [Save].
	Completion
	Press the Save key in the setting display.
Developer	Perform the toner installation of the developer unit.
	<b>Description</b> Perform the toner installation when the developer unit has been replaced.
	<b>Purpose</b> Perform when the developer unit is replaced.
	<ul> <li>Method</li> <li>1. Enter the service menu.</li> <li>2. Select [Developer unit].</li> <li>3. Press [Start] in the confirmation display.</li> </ul>
	<b>Completion</b> The toner installation is performed when power is turned on and off.

B Description				
<ul> <li>FAX Country Code</li> <li>Description Initializes software switches and all data in the backup data on the FAX control PWB, according to the destination. Purpose To initialize the FAX control PWB. </li> <li>Method <ol> <li>Enter the Service Setting menu.</li> <li>Select [FAX Country Code] using the cursor up/down keys.</li> <li>Press the start key.</li> <li>Enter a destination code using the numeric keys.</li> <li>Press the start key. The setting is set.</li> <li>Press the start key. Data initialization starts.</li> </ol> </li> </ul>				
		Code	Destination	
			CTR21 (European nations)	
		200	Italy	
			Germany	
			Spain	
			U.K.	
			Netherlands	
			Sweden	
			France	
	-		Austria	
			Switzerland	
			Belgium	
			Denmark	
			Finland	
159	South Africa		Portugal	
169	Thailand		Ireland	
181	U.S.A.		Norway	
242	South America	254	Taiwan	
243	Saudi Arabia			
	Description Initializes soft according to th Purpose To initialize the Method 1. Enter the S 2. Select [FA 3. Press the 4. Enter a de 5. Press the 6. Press the Destination c OO0 009 038 080 084 088 097 108 126 136 137 152 156 159 169 181	Description         Initializes software switches and all data according to the destination.         Purpose         To initialize the FAX control PWB.         Method         1. Enter the Service Setting menu.         2. Select [FAX Country Code] using the 3. Press the start key.         4. Enter a destination code using the r         5. Press the start key.         4. Enter a destination code using the r         5. Press the start key. The setting is set         6. Press the start key. Data initialization         Dot         Japan         000       Japan         009       Australia         038       China         080       Hong Kong         084       Indonesia         085       Israel         097       Korea         108       Malaysia         126       New Zealand         136       Peru         137       Philippines         152       Middle East         156       Singapore         159       South Africa         169       Thailand         181       U.S.A.	Code       Destination         Press the start key.       4.         2. Select [FAX Country Code] using the cursor up/do         3. Press the start key.         4. Enter a destination code using the numeric keys.         5. Press the start key.         6. Press the start key. The setting is set.         6. Press the start key. Data initialization starts.         Destination code list         Code Destination Code         000       Japan       253         000       Japan       253         009       Australia       038       China         038       China       108         044       Indonesia       108         080       Hong Kong       1126         081       Israel       1126         097       Korea       1136         136       Peru       137         137       Philippines       152         152       Middle East       156         159       South Africa       169         169       Thailand       181	

Service items	Description			
FAX call Setting	FAX call setting			
	Selects the mode to con Access code registration <b>Purpose</b> To be executed as requi <b>Method</b> 1. Enter the Service Se 2. Select [FAX Call Set 3. Press the start key.		d.	
		Display	Description	
		Exchange Select.	Setting the connection to PBX/PSTN	
		PBX Setting	Setting for a PBX	
		Dial No. to PSTN	Setting access code to PSTN	
	3. 4. <b>Set</b> 1. 2. 3. 4. <b>Set</b> 1. 2. 3. 4.	Press the start key. Th ting for PBX Select [PBX Setting] u Press the start key. Select [Loop], [Flash] o Press the start key. Th ting access code to F Select [Dial No. to PS <sup>-</sup> Press the start key. Enter access code usi Press the start key. Th	sing the cursor up/down keys. or [Earth] using the cursor up/down keys. he setting is set. <b>PSTN</b> TN] using the cursor up/down keys. ng the numeric keys. (0 to 9, 00 to 99)	
		<b>npletion</b> ss the stop key.		

## 1-4-1 Paper misfeed detection

#### (1) Paper misfeed indication

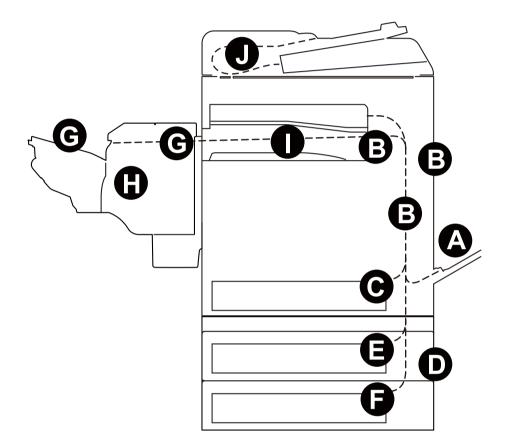
When a paper misfeed occurs, the machine immediately stops copying and displays the jam location on the operation panel.

Paper misfeed counts sorted by component can be checked by maintenance item U903.

To remove the paper jammed in the machine, open the right cover and pull the cassette out.

To remove the original jammed in DP or the document finisher, open the top cover.

Paper misfeed can be reset by opening and closing the respective covers.



#### Figure 1-4-1

- (A) Misfeed in the MP tray
- (B) Misfeed in right cover 1
- (C) Misfeed in cassette 1
- (D) Misfeed in right cover 3
- (E) Misfeed in cassette 2
- (F) Misfeed in cassette 3
- (G) Misfeed in the document finisher
- (H) Stapler problem
- (I) Misfeed in the bridge
- (J) Misfeed in the document processor

#### (2) Paper misfeed detection component

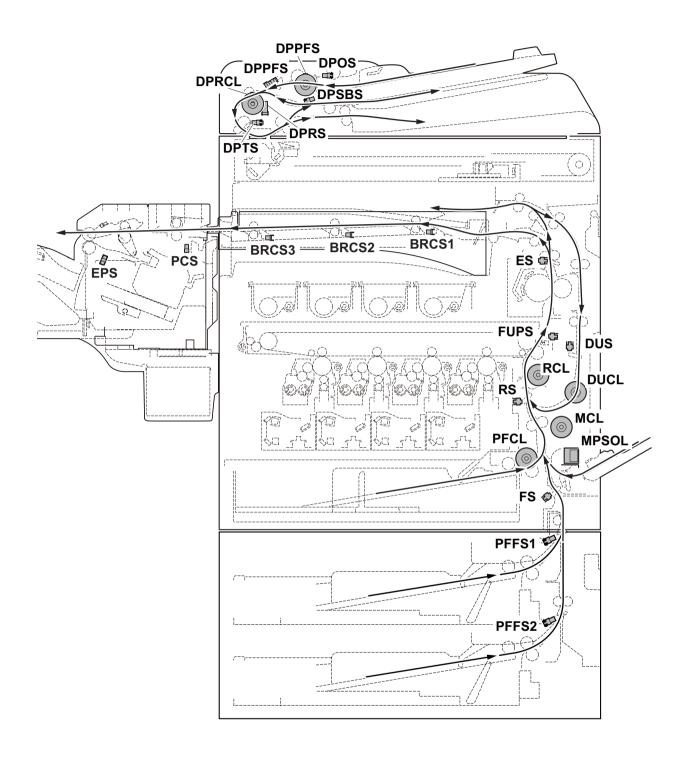


Figure 1-4-2

Code	ode Contents Conditions		Jam location*
0000	Initial jam	The power is turned on when a sensor in the con- veying system is on.	-
0100	Secondary paper feed request time out	Secondary paper feed request given by the con- troller is unreachable.	В
0101	Waiting for process package to be ready	Process package won't be ready.	В
0104	Waiting for conveying pack- age to be ready	Conveying package won't be ready.	В
0106	Paper feeding request for duplex printing time out	Paper feeding request for duplex printing given by the controller is unreachable.	В
0107	Waiting for fuser package to be ready	Fuser package won't be ready.	-
0110	Right cover open	The right cover is opened during printing.	-
0111	Front cover open	The front cover is opened during printing.	-
0120	Receiving a duplex paper feeding request while paper is empty	Paper feed request was received from the duplex section despite the absence of paper in the duplex section.	В
0121	Exceeding number of duplex pages circulated	The controller issued the duplex section a request for more pages than the duplex print cycle contains.	В
0210	Right lower cover open	The right lower cover is opened during printing.	-
0501	No paper feed from cassette 1	The registration sensor (RS) does not turn on dur- ing paper feed from cassette 1.	С
0502	No paper feed from cassette 2	PF feed sensor 1 (PFFS1) does not turn on during paper feed from cassette 2 (Retry 1 times).	E
0503	No paper feed from cassette 3	PF feed sensor 2 (PFFS2) does not turn on during paper feed from cassette 3 (Retry 1 times).	F
0508	No paper feed from duplex section	The registration sensor (RS) does not turn on dur- ing paper feed from the duplex section.	В
0509	No paper feed from MP tray	The registration sensor (RS) does not turn on dur- ing paper feed from the MP tray.	A
0511	Multiple sheets in cassette 1	The registration sensor (RS) does not turn off dur- ing paper feed from cassette 1.	С
0512	Multiple sheets in cassette 2	PF feed sensor 1 (PFFS1) does not turn off during paper feed from cassette 2.	E
0513	Multiple sheets in cassette 3	PF feed sensor 2 (PFFS2) does not turn off during paper feed from cassette 3.	F
0518	Multiple sheets in duplex section	The registration sensor (RS) does not turn off dur- ing paper feed from the duplex section.	В
0519	Multiple sheets in MP tray	The registration sensor (RS) does not turn off dur- ing paper feed from theMP tray.	A

Code	Contents	Conditions	Jam location*
1403	PF feed sensor 1 non arrival jam	PF feed sensor 1 (PFFS1) does not turn on during paper feed from cassette 3.	D
1413	PF feed sensor 1 stay jam	PF feed sensor 1 (PFFS1) does not turn off during paper feed from cassette 3.	D
4002	Registration sensor non arrival jam	The registration sensor (RS) does not turn on dur- ing paper feed from cassette 2.	D
4003	_	The registration sensor (RS) does not turn on dur- ing paper feed from cassette 3.	D
4012	Registration sensor stay jam	The registration sensor (RS) does not turn off dur- ing paper feed from cassette 2.	D
4013	_	The registration sensor (RS) does not turn off dur- ing paper feed from cassette 3.	D
4101	Fuser pre sensor non arrival jam	The fuser pre sensor (FUPS) does not turn on dur- ing paper feed from cassette 1.	В
4102	_	The fuser pre sensor (FUPS) does not turn on dur- ing paper feed from cassette 2.	В
4103		The fuser pre sensor (FUPS) does not turn on dur- ing paper feed from cassette 3.	В
4109	-	The fuser pre sensor (FUPS) does not turn on dur- ing paper feed from duplex section.	В
4110	-	The fuser pre sensor (FUPS) does not turn on dur- ing paper feed from MP tray.	В
4111	Fuser pre sensor stay jam	The fuser pre sensor (FUPS) does not turn off dur- ing paper feed from cassette 1.	В
4112	-	The fuser pre sensor (FUPS) does not turn off dur- ing paper feed from cassette 2.	В
4113		The fuser pre sensor (FUPS) does not turn off dur- ing paper feed from cassette 3.	В
4118	-	The fuser pre sensor (FUPS) does not turn off dur- ing paper feed from the duplex section.	В
4119		The fuser pre sensor (FUPS) does not turn off dur- ing paper feed from the MP tray.	В

Contents	Conditions	Jam location*
Eject sensor non arrival jam	The eject sensor (ES) does not turn on during paper feed from cassette 1.	В
_	The eject sensor (ES) does not turn on during paper feed from cassette 2.	В
_	The eject sensor (ES) does not turn on during paper feed from cassette 3.	В
	The eject sensor (ES) does not turn on during paper feed from duplex section.	В
	The eject sensor (ES) does not turn on during paper feed from MP tray.	В
Eject sensor stay jam	The eject sensor (ES) does not turn off during paper feed from cassette 1.	В
-	The eject sensor (ES) does not turn off during paper feed from cassette 2.	В
-	The eject sensor (ES) does not turn off during paper feed from cassette 3.	В
-	The eject sensor (ES) does not turn off during paper feed from the duplex section.	В
-	The eject sensor (ES) does not turn off during paper feed from the MP tray.	В
Duplex sensor non arrival jamThe duplex sensor (DUS) does not turn on during paper feed from cassette 1.		В
-	The duplex sensor (DUS) does not turn on during paper feed from cassette 2.	В
-	The duplex sensor (DUS) does not turn on during paper feed from cassette 3.	В
-	The duplex sensor (DUS) does not turn on during paper feed from the MP tray.	В
Duplex sensor stay jam	The duplex sensor (DUS) does not turn off during paper feed from cassette 1.	В
	The duplex sensor (DUS) does not turn off during paper feed from cassette 2.	В
	The duplex sensor (DUS) does not turn off during paper feed from cassette 3.	В
	The duplex sensor (DUS) does not turn off during paper feed from the MP tray.	В
	Eject sensor non arrival jam	Eject sensor non arrival jam       The eject sensor (ES) does not turn on during paper feed from cassette 1.         The eject sensor (ES) does not turn on during paper feed from cassette 2.       The eject sensor (ES) does not turn on during paper feed from cassette 3.         The eject sensor (ES) does not turn on during paper feed from duplex section.       The eject sensor (ES) does not turn on during paper feed from duplex section.         Eject sensor stay jam       The eject sensor (ES) does not turn off during paper feed from Cassette 1.         The eject sensor (ES) does not turn off during paper feed from cassette 1.       The eject sensor (ES) does not turn off during paper feed from cassette 2.         The eject sensor (ES) does not turn off during paper feed from cassette 1.       The eject sensor (ES) does not turn off during paper feed from cassette 3.         The eject sensor (ES) does not turn off during paper feed from tassette 3.       The eject sensor (ES) does not turn off during paper feed from the duplex section.         Duplex sensor non arrival jam       The duplex sensor (DUS) does not turn on during paper feed from cassette 1.         Duplex sensor non arrival jam       The duplex sensor (DUS) does not turn on during paper feed from cassette 2.         Duplex sensor stay jam       The duplex sensor (DUS) does not turn on during paper feed from cassette 1.         Duplex sensor stay jam       The duplex sensor (DUS) does not turn off during paper feed from cassette 2.         The duplex sensor (DUS) does not turn off during paper feed from cassette 3.       The duplex

Code	Contents	Conditions	Jam location*
4901	Bridge conveying sensor 1 non arrival jam	The bridge conveying sensor 1 (BRCS1) does not turn on during paper feed from cassette 1.	В
4902		The bridge conveying sensor 1 (BRCS1) does not turn on during paper feed from cassette 2.	В
4903		The bridge conveying sensor 1 (BRCS1) does not turn on during paper feed from cassette 3.	В
4908		The bridge conveying sensor 1 (BRCS1) does not turn on during paper feed from duplex section.	В
4909		The bridge conveying sensor 1 (BRCS1) does not turn on during paper feed from the MP tray.	В
4911	Bridge conveying sensor 1 stay jam	The bridge conveying sensor 1 (BRCS1) does not turn off during paper feed from cassette 1.	I
4912		The bridge conveying sensor 1 (BRCS1) does not turn off during paper feed from cassette 2.	I
4913		The bridge conveying sensor 1 (BRCS1) does not turn off during paper feed from cassette 3.	I
4918	_	The bridge conveying sensor 1 (BRCS1) does not turn off during paper feed from duplex section.	I
4919	_	The bridge conveying sensor 1 (BRCS1) does not turn off during paper feed from the MP tray.	I
5001	Bridge conveying sensor 3 non arrival jam	The bridge conveying sensor 3 (BRCS3) does not turn on during paper feed from cassette 1.	I
5002	_	The bridge conveying sensor 3 (BRCS3) does not turn on during paper feed from cassette 2.	I
5003	_	The bridge conveying sensor 3 (BRCS3) does not turn on during paper feed from cassette 3.	I
5008	_	The bridge conveying sensor 3 (BRCS3) does not turn on during paper feed from the duplex section.	I
5009	-	The bridge conveying sensor 3 (BRCS3) does not turn on during paper feed from theMP tray.	I
5011	Bridge conveying sensor 3 stay jam	The bridge conveying sensor 3 (BRCS3) does not turn off during paper feed from cassette 1.	I
5012	-	The bridge conveying sensor 3 (BRCS3) does not turn off during paper feed from cassette 2.	I
5013		The bridge conveying sensor 3 (BRCS3) does not turn off during paper feed from cassette 3.	I
5018		The bridge conveying sensor 3 (BRCS3) does not turn off during paper feed from duplex section.	I
5019		The bridge conveying sensor 3 (BRCS3) does not turn off during paper feed from the MP tray.	I

Code	Contents	Conditions	Jam location*
6023	Staple cover open	The staple cover is opened during operation.	G
6043	DF top cover open	The DF top cover is opened during operation.	G
6103	DF paper conveying sensor non arrival jam	The paper conveying sensor (PCS) does not turned on even if a specified time has elapsed after the machine eject signal was received.	Ι
6113	DF paper conveying sensor stay jam	The paper conveying sensor (PCS) does not turn off within the specified time of its turning on.	G
6123	DF paper conveying sensor remaining jam	The paper conveying sensor (PCS) does not turned on when the power is turned on or the cover is closed.	G
6413	DF eject paper sensor stay jam	The eject paper sensor (EPS) does not turn off within the specified time.	G
6423	DF eject paper sensor remaining jam	The eject paper sensor (EPS) does not turned on when the power is turned on or the cover is closed.	G
6803	Front adjustment plate oper- ation ON error	The adjustment sensor 1 (ADS1) does turned on when the job is executed.	Н
6813	Front adjustment plate oper- ation OFF error	The adjustment sensor 1 (ADS1) does not turned off when the job is executed.	Н
6903	Rear adjustment plate oper- ation ON error	The adjustment sensor 2 (ADS2) does not turned on when the job is executed.	Н
6913	Rear adjustment plate oper- ation OFF error	The adjustment sensor 2 (ADS2) does not turned off when the job is executed.	Н
7013	Staple operation error	The next staple hasn't head-poked for the next copy to bind after a predetermined interval while clinching has commenced.	Н
7023	Staple initial operation error	Head-poking has not been accomplished after 10 attempts in the initialization at power up or closing the cover.	Н
7913	Sequence error 1 (operation prohibited)	Operation commenced in the state the finisher is prohibited to operate.	G
7923	Sequence error 2 (initialoperation error)	A request for maintenance mode has occurred in the state the finisher is prohibited to operate or has commenced operation.	G
7933	Sequence error 3 (Error in the reception of backup data)	A backup data command has been received in the state the operation has initiated.	G
7943	Sequence error 4 (standby)	Operation has started in the state standby is pro- hibited.	G
7953	Sequence error 5 (Error in between copies)	An illegal inter-page or inter-copy interval has occurred.	G

Code	Contents	Conditions	Jam location*
7963	Sequence error 6	The finisher does not deliver the eject-complete command in 15 seconds after the bridge eject sensor is turned off.	G
9001	DP original conveying jam	DP timing sensor (DPTS) turns off within the speci- fied time since the sensor turns on.	J
9004	DP original switchback jam	During duplex switchback scanning, the DP regis- tration sensor (DPRS) does not turn on within specified time of the DP timing sensor (DPTS) turning off.	J
9010	DP open	The DP is opened during original feeding. Sensor in the conveying system is on when the power is turned on or the cover is closed.	-
9011	DP top cover open	The DP top cover is opened during original feed- ing.	-
9110	DP paper feed sensor stay jam	The DP paper feed sensor (DPPFS) or DP regis- tration sensor (DPRS) does not turn off within the specified time of the DP timing sensor (DPTS) turning on.	J
9200	DP registration sensor non arrival jam	The DP registration sensor (DPRS) does not turn on within the specified time of the DP paper feed sensor (DPPFS) turning on.	J
9400	DP timing sensor non arrival jam	The DP timing sensor (DPTS) does not turn on within the specified time of the DP registration sensor (DPRS) turning on (Retry 5 times).	J
9410	DP timing sensor stay jam	The DP timing sensor (DPTS) does not turned off within the specified time its turning on.	J

# 1-4-2 Self-diagnostic function

### (1) Self-diagnostic function

This machine is equipped with self-diagnostic function. When a problem is detected, the machine stops printing and display an error message on the operation panel. An error message consists of a message prompting a contact with service personnel and a four-digit error code indicating the type of the error.

### (2) Self-diagnostic codes

If the part causing the problems not designated as a service part, replace the assembly comprising the part.

Code	Contents	Causes	Check procedures/ corrective measures
0030	FAX control PWB system error Processing with the fax soft- ware was disabled due to a hardware problem.	Defective FAX con- trol PWB.	Replace the fax control PWB and check for correct operation.
0070	FAX control PWB incompat- ible detection error	Defective FAX soft- ware.	Install the fax software.
	In the initial communication with the FAX control PWB, the normal communication com- mand is not transmitted.	Defective FAX con- trol PWB.	Replace the fax control PWB and check for correct operation.
0100	Backup memory device error	Defective flash memory.	Replace the main PWB and check for cor- rect operation (see page 1-5-30).
		Defective main PWB.	
0120	MAC address data error The data includes an invalid	Defective flash memory.	Replace the main PWB and check for cor- rect operation (see page 1-5-30).
	MAC address.	Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
0130	Backup memory read/write error (main PWB)	Defective flash memory.	Replace the main PWB and check for cor- rect operation (see page 1-5-30).
		Defective main PWB.	
0140	Backup memory data error (main PWB)	Defective flash memory.	Replace the main PWB and check for cor- rect operation (see page 1-5-30).
		Defective main PWB.	

Code	Contents	Causes	Check procedures/ corrective measures
0150	Backup memory read/write error (engine PWB) Detecting engine PWB EEPROM communication	The engine PWB EEPROM was improperly installed.	Check the EEPROM is properly installed and remedy if necessary.
	error.	Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
		Defective EEPROM.	Contact the Service Administrative Division.
0160	Backup memory data error (engine PWB)	Defective flash memory.	Replace the engine PWB and check for correct operation (see page 1-5-31).
		Defective engine PWB.	
0170	<b>Billing counting error</b> A checksum error is detected	Data in the EEPROM .	Contact the Service Administrative Division.
	in the main and engine backup memories for the bill- ing counters.	Defective PWB.	Replace the main PWB or the engine PWB and check for correct operation (see page 1-5-30, 1-5-31).
0180	Machine number mismatch Machine number of main and engine does not match.	Data in the EEPROM .	Contact the Service Administrative Division.
0320	I/O CPU communication error A communication error is detected 10 times in succes- sion.	Defective PWB.	Replace the main PWB or the engine PWB and check for correct operation. (see page 1-5-30,1-5-31)
0800	Image processing error The JAM100 fee counter is continuously generated.	Defective main PWB.	Replace the main PWB and check for correct operation (see page 1-5-30).
0830	FAX control PWB flash pro- gram area checksum error	Defective FAX soft- ware.	Install the fax software.
	A checksum error occurred with the program of the FAX control PWB.	Defective FAX con- trol PWB.	Replace the FAX control PWB.
0840	<b>Faults of RTC</b> The time is judged to go back based on the comparison of	The battery is dis- connected from the main PWB.	Check visually and remedy if necessary
	the RTC time and the current time or five years or more have passed.	Defective main PWB.	Replace the main PWB and check for cor- rect operation (see page 1-5-30).

Code	Contents	Causes	Check procedures/ corrective measures
0870	FAX control PWB to main PWB high capacity data transfer errorImproper installa- tion FAX control 	tion FAX control	Reinstall the FAX control PWB.
			Replace the FAX control PWB or main PWB and check for correct operation (see page 1-5-30).
0920	<b>Fax file system error</b> The backup data is not retained for file system abnor- mality of flash memory of the FAX control PWB.	Defective FAX con- trol PWB.	Replace the FAX control PWB and check for correct operation.
1010	Lift motor error After cassette 1 is inserted, the lift sensor does not turn on within 12 s. This error is detected four times succes- sively.	Defective bottom plate elevation mechanism in the cassette.	Check to see if the bottom plate can move smoothly and repair any problem that is found.
		Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity of the connector cable. If necessary, replace the cable.
		Defective drive	Lift motor and engine PWB (YC1) Check if the gears rotate smoothly. If not,
		transmission sys- tem of the lift motor.	grease the bushes and gears. Check for broken gears and replace if necessary.
		Defective lift motor.	Replace the lift motor.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).

Code	Contents	Causes	Check procedures/ corrective measures
1020	<b>PF lift motor 1 error</b> (paper feeder) After cassette 2 is inserted, PF lift sensor 1 does not turn	Defective bottom plate elevation mechanism in the cassette.	Check to see if the bottom plate can move smoothly and repair any problem that is found.
	on within 12 s. This error is detected four times succes- sively.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity of the connector cable. If necessary, replace the cable. PF lift motor 1 and PF main PWB (YC4)
		Defective drive transmission sys- tem of the PF lift motor 1.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if necessary.
		Defective PF lift motor 1.	Replace the PF lift motor 1.
		Defective PF main PWB.	Replace the PF main PWB (Refer to the ser- vice manual of the paper feeder).
1030	<b>PF lift motor 2 error</b> (paper feeder) After cassette 3 is inserted, PF lift sensor 2 does not turn on within 12 s. This error is detected four times succes- sively.	Defective bottom plate elevation mechanism in the cassette.	Check to see if the bottom plate can move smoothly and repair it if any problem is found.
		Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity of the connector cable. If necessary, replace the cable. PF lift motor 2 and PF main PWB (YC7)
		Defective drive transmission sys- tem of the PF lift motor 2.	Check if the gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective PF lift motor 2.	Replace the PF lift motor 2.
		Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual of the paper feeder).

Code	Contents	Causes	Check procedures/ corrective measures
1800	Paper feeder communica- tion error A communication error is detected 10 times in succes- sion.	Improper installa- tion of the paper feeder.	Follow the installation instruction carefully again.
		Defective connec- tor cable or poor contact of the con- nector.	Reinsert the connector. Also check for conti- nuity of the connector cable. If necessary, replace the cable. PF main PWB (YC3) and engine PWB (YC20)
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
		Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual of the paper feeder).
1900	Paper feeder EEPROM error When writing the data, the	Defective PF main PWB.	Replace the PF main PWB (Refer to the service manual of the paper feeder).
	write data and the read data is not continuously in agreement 4 times.	Device damage of EEPROM.	Contact the Service Administrative Division.
1950	Transfer belt unit EEPROM error	Defective transfer PWB.	Replace the transfer PWB and check for correct operation.
	No response is issued from the device in reading/writing for 5 ms or more and this problem is repeated five times successively. Mismatch of reading data from two locations occurs eight times successively. Mismatch between writing data and reading data occurs eight times successively.	Device damage of EEPROM.	Contact the Service Administrative Division.
2101	Developer motor K steady- state error The rated speed signal detected the stability OFF	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity of the connector cable. If necessary, replace the cable. Developer motor K and engine PWB (YC4)
	continuously for 1 s after the developer motor K stabilizes.	Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if necessary.
		Defective motor.	Replace the Developer motor K.
		Defective PWB.	Replace the engine PWB and check for cor- rect operation (see page 1-5-31).

Code	Contents	Causes	Check procedures/ corrective measures
2102	Developer motor YCM steady-state error The rated speed signal detected the stability OFF continuously for 1 s after the	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Developer motor YCM and engine PWB (YC3)
	developer motor YCM stabilizes.	Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
		Defective motor.	Replace the Developer motor YCM.
		Defective PWB.	Replace the engine PWB and check for cor- rect operation (see page 1-5-31).
2111	Developer motor K startup error Developer motor K is not sta- bilized within 2 s since the	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity of the connector cable. If necessary, replace the cable. Developer motor K and engine PWB (YC4)
	motor is activated.	Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if necessary.
		Defective motor.	Replace the Developer motor K.
		Defective PWB.	Replace the engine PWB and check for cor- rect operation (see page 1-5-31).
2112	Developer motor YCM startup error Developer motor YCM is not stabilized within 2 s since the motor is activated.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If neces- sary, replace the cable. Developer motor YCM and engine PWB (YC4)
		Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if necessary.
		Defective motor.	Replace the Developer motor YCM.
		Defective PWB.	Replace the engine PWB and check for cor- rect operation (see page 1-5-31).

Code	Contents	Causes	Check procedures/ corrective measures
2201	Drum motor K steady-state error The rated speed signal detected the stability OFF	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Drum motor K and engine PWB (YC3)
	continuously for 1 s after the drum motor K stabilizes.	Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
		Defective motor.	Replace the Drum motor K.
		Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
2202	Drum motor YCM steady- state error The rated speed signal detected the stability	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Drum motor YCM and engine PWB (YC3)
	OFFcontinuously for 1 s after the drum motor YCM stabilizes.	Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
		Defective motor.	Replace the Drum motor YCM.
		Defective PWB.	Replace the engine PWB and check for cor- rect operation (see page 1-5-31).
2211	<b>Drum motor K startup error</b> Drum motor K is not stabilized within 2 s since the motor is activated.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Drum motor K and engine PWB (YC3)
		Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
		Defective motor.	Replace the Drum motor K.
		Defective PWB.	Replace the engine PWB and check for cor- rect operation (see page 1-5-31).
2212	Drum motor YCM startup error Drum motor YCM is not stabi- lized within 2 s since the	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Drum motor YCM and engine PWB (YC3)
	motor is activated.	Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
		Defective motor.	Replace the Drum motor YCM.
		Defective PWB.	Replace the engine PWB and check for cor- rect operation (see page 1-5-31).

Code	Contents	Causes	Check procedures/ corrective measures
2300	Fuser motor steady-state error The rated speed signal detected the stability OFF continuously for 1 s after the fuser motor stabilizes.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Fuser motor and engine PWB (YC4)
		Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
		Defective motor.	Replace the Fuser motor.
		Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
2310	<b>Fuser motor startup error</b> Fuser motor is not stabilized within 2 s since the motor is activated.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Fuser motor and engine PWB (YC3)
		Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
		Defective motor.	Replace the fuser motor.
		Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
2550	Conveying motor steady- state error The rated speed signal detected the stability OFF	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Conveying motor and engine PWB (YC2)
	continuously for 1 s after the conveying motor stabilizes.	Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
		Defective motor.	Replace the Conveying motor.
		Defective PWB.	Replace the engine PWB and check for cor- rect operation (see page 1-5-31).
2560	Conveying motor startup error Conveying motor is not stabi- lized within 2 s since the	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Conveying motor and engine PWB (YC2)
	motor is activated.	Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
		Defective motor.	Replace the conveying motor.
		Defective PWB.	Replace the engine PWB and check for cor- rect operation (see page 1-5-31).

Code	Contents	Causes	Check procedures/ corrective measures
2600	<b>PF drive motor error</b> (paper feeder) When the PF drive motor is driven, error signal is detected continuously for 1 s.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. PF drive motor and PF main PWB (YC2)
		Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
		Defective motor.	Replace the PF drive motor.
		Defective PWB.	Replace the PF main PWB (Refer to the service manual for the paper feeder).
2700	<b>TC belt motor error</b> When the TC belt motor is driven, error signal is detected continuously for 1 s.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. TC belt motor and TC PWB(YC2) TC PWB and TC connect PWB(YC1) TC connect PWB and engine PWB(YC5)
		Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
		Defective motor.	Replace the TC belt motor.
		Defective PWB.	Replace the engine PWB or TC PWB or TC connect PWB check for correct operation (see page 1-5-31).
3100	ISU home position error ON/OFF of the HP sensor doesn't change after a pre- scribed pulse passes from power supply ON.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Home position sensor and engine PWB (YC13)
		Defective home position sensor.	Replace the home position sensor.
		Defective ISU motor.	Replace the ISU motor.
		Defective CCD PWB.	Replace the image scanner unit (see page 1-5-21).
		Defective engine PWB.	Replace the engine PWB and check for cor- rect operation (see page 1-5-31).

Code	Contents	Causes	Check procedures/ corrective measures
3200	<b>Exposure lamp error</b> The input during the exposure lamp is turned on does not exceed the threshold for 5 seconds.	Defective connec- tor cable or poor contact of the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If neces- sary, replace the cable. LED PWB and main PWB (YC112) CCD PWB and main PWB (YC113)
		Defective exposure lamp.	Replace the image scanner unit (see page 1-5-21).
		Defective CCD PWB.	
		Defective main PWB.	Replace the main PWB and check for cor- rect operation (see page 1-5-30).
3500	<b>Communication error</b> A wrong read-back value.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. CCD PWB and main PWB (YC113)
		Defective CCD PWB.	Replace the image scanner unit (see page 1-5-21).
		Defective main PWB.	Replace the main PWB and check for cor- rect operation (see page 1-5-30).
3600	Scanner sequence error	Defective main PWB or engine PWB.	Replace the main PWB or the engine PWB and check for correct operation (see page 1-5-30 or 1-5-31).
4001	Polygon motor (K) steady- state error The rated speed signal detected the stability OFF continuously for 1 s after the polygon motor (K) stabilizes.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Laser scanner unit (K) and LSU connect PWB(YC5) LSU connect PWB and engine PWB (YC12)
		Defective motor.	Replace the Laser scanner unit (K).
		Defective PWB.	Replace the engine PWB or LSU connect PWB and check for correct operation (see page 1-5-31).
4002	Polygon motor (C) steady- state error The rated speed signal detected the stability OFF continuously for 1 s after the polygon motor (C) stabilizes.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Laser scanner unit (C) and LSU connect PWB(YC6) LSU connect PWB and engine PWB (YC12)
		Defective motor.	Replace the Laser scanner unit (C).
		Defective PWB.	Replace the engine PWB or LSU connect PWB and check for correct operation (see page 1-5-31).

Code	Contents	Causes	Check procedures/ corrective measures
4003	Polygon motor (M) steady- state error The rated speed signal detected the stability OFF continuously for 1 s after the polygon motor (M) stabilizes.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Laser scanner unit (M) and LSU connect PWB(YC7) LSU connect PWB and engine PWB (YC12)
		Defective motor.	Replace the Laser scanner unit (M).
		Defective PWB.	Replace the engine PWB or LSU connect PWB and check for correct operation (see page 1-5-31).
4004	Polygon motor (Y) steady- state error The rated speed signal detected the stability OFF continuously for 1 s after the polygon motor (Y) stabilizes.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Laser scanner unit (Y) and LSU connect PWB(YC8) LSU connect PWB and engine PWB (YC12)
		Defective motor.	Replace the Laser scanner unit (Y).
		Defective PWB.	Replace the engine PWB or LSU connect PWB and check for correct operation (see page 1-5-31).
4011	Polygon motor (K) startup error Polygon motor (K) is not stabi- lized within 10 s since the motor is activated.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Laser scanner unit (K) and LSU connect PWB(YC5) LSU connect PWB and engine PWB (YC12)
		Defective motor.	Replace the Laser scanner unit (K).
		Defective PWB.	Replace the engine PWB or LSU connect PWB and check for correct operation (see page 1-5-31).
4012	Polygon motor (C) startup error Polygon motor (C) is not stabi- lized within 10 s since the motor is activated.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Laser scanner unit (C) and LSU connect PWB(YC6) LSU connect PWB and engine PWB (YC12)
		Defective motor.	Replace the Laser scanner unit (C).
		Defective PWB.	Replace the engine PWB or LSU connect PWB and check for correct operation (see page 1-5-31).

Code	Contents	Causes	Check procedures/ corrective measures
4013	Polygon motor (M) startup error Polygon motor (M) is not sta- bilized within 10 s since the motor is activated.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Laser scanner unit (M) and LSU connect PWB(YC7) LSU connect PWB and engine PWB (YC12)
		Defective motor.	Replace the Laser scanner unit (M).
		Defective PWB.	Replace the engine PWB or LSU connect PWB and check for correct operation (see page 1-5-31).
4014	Polygon motor (Y) startup error Polygon motor (Y) is not stabi- lized within 10 s since the motor is activated.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Laser scanner unit (Y) and LSU connect PWB(YC8) LSU connect PWB and engine PWB (YC12)
		Defective motor.	Replace the Laser scanner unit (Y).
		Defective PWB.	Replace the engine PWB or LSU connect PWB and check for correct operation (see page 1-5-31).
4101	<b>BD initialization problem (K)</b> BD is not detected within one second after the polygon motor stabilizes.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. BDPWB and APCPWB APCPWB and LSU connect PWB (YC1) LSU connect PWB and engine PWB (YC12)
		Defective APCPWB.	Replace the Laser scanner unit (K). (see page 1-5-20)
		Defective BDPWB.	
		Defective Main PWB.	Replace the main PWB and check for cor- rect operation (see page 1-5-30).
4102	<b>BD initialization problem (C)</b> BD is not detected within one second after the polygon motor stabilizes.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. BDPWB and APCPWB APCPWB and LSU connect PWB (YC2) LSU connect PWB and engine PWB (YC12)
		Defective APCPWB.	Replace the Laser scanner unit (C). (see page 1-5-20)
		Defective BDPWB.	
		Defective Main PWB.	Replace the main PWB and check for cor- rect operation (see page 1-5-30).

Code	Contents	Causes	Check procedures/ corrective measures
4103	BD initialization problem (M) BD is not detected within one second after the polygon motor stabilizes.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. BDPWB and APCPWB APCPWB and LSU connect PWB (YC3) LSU connect PWB and engine PWB (YC12)
		Defective APCPWB. Defective BDPWB.	Replace the Laser scanner unit (M). (see page 1-5-20)
		Defective Main PWB.	Replace the main PWB and check for cor- rect operation (see page 1-5-30).
4104	<b>BD initialization problem (Y)</b> BD is not detected within one second after the polygon motor stabilizes.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. BDPWB and APCPWB APCPWB and LSU connect PWB (YC4) LSU connect PWB and engine PWB (YC12)
		Defective APCPWB. Defective BDPWB.	Replace the Laser scanner unit (M). (see page 1-5-20)
		Defective Main PWB.	Replace the main PWB and check for cor- rect operation (see page 1-5-30).
4600	<b>LSU cleaning motor error</b> When the LSU cleaning motor is driven, an error signal is detected continuously for 1 s.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity of the connector cable. If none, replace the cable. LSU cleaning motor and LSU connect PWB(YC11) LSU connect PWB and engine PWB(YC12)
		Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
		Defective motor.	Replace the LSU cleaning motor.
		Defective PWB.	Replace the engine PWB or LSU connect PWB check for correct operation (see page 1-5-31).

Code	Contents	Causes	Check procedures/ corrective measures
4700	VIDEO ASIC device error Mismatch of reading data from two locations occurs eight times successively. Mismatch between writing	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Main PWB (YC105) and engine PWB (YC17)
	data and reading data occurs eight times successively.	Defective main PWB or engine PWB.	Replace the main PWB or the engine PWB and check for correct operation (see page 1-5-30, 1-5-31).
4950	LSU CPU communication error A communication error is detected 10 times in succes-	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Main PWB and engine PWB (YC26)
	sion.	Defective PWB.	Replace the main PWB or engine PWB and check for correct operation (see page 1-5-30, 1-5-31).
6000	Broken fuser heater wire Fuser thermistor 2 does not reach 100° C/212 °F even after20 s during warming up. The detected temperature of fuser thermistor2 does not reach the specified tempera- ture (ready indication temper- ature) for 20 s in warming up after reached to 100° C/	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. IH coil unit and IHPWB IHPWB and engine PWB (YC7)
		Deformed connec- tor pin.	If the I/F connector pins of the fuser unit and the main unit are deformed owing to foreign matters, such as paper dusts, replace the connectors or the units including the con- nectors.
	212 °F.	Defective IH PWB.	Replace the IH PWB and check for correct operation (see page 1-5-35).
		Fuser thermostat triggered.	Reinsert the fuser unit (see page 1-5-18).
		Broken fuser heater wire.	
		Defective engine PWB.	Replace the engine PWB and check for cor- rect operation (see page 1-5-31).
6020	Abnormally high fuser thermistor 2 (center) tem- perature The fuser thermistor 2 detects a temperature higher than 240°C/464°F continuously for 1 s.	Deformed connec- tor pin.	If the I/F connector pins of the fuser unit and the main unit are deformed owing to foreign matters, such as paper dusts, replace the connectors or the units including the con- nectors.
		Shorted fuser thermistor.	Replace the fuser unit (see page 1-5-18).
		Defective engine PWB.	Replace the engine PWB and check for cor- rect operation (see page 1-5-31).

Contents	Causes	Check procedures/ corrective measures
Fuser thermistor 2 (center) break error A/D value of the fuser thermis- tor 2 exceeds 984 bit continu- ously for 1 s during warming	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Fuser thermister2 and fuser PWB (YC2) Fuser unit and engine PWB (YC22)
up.	Deformed connec- tor pin.	If the I/F connector pins of the fuser unit and the main unit are deformed owing to foreign matters, such as paper dusts, replace the connectors or the units including the con- nectors.
	Defective fuser thermistor.	Replace the fuser unit (see page 1-5-18).
	Defective engine PWB.	Replace the engine PWB and check for cor- rect operation (see page 1-5-31).
NC sensor error	Deformed connec- tor pin.	If the I/F connector pins of the fuser unit and the main unit are deformed owing to foreign matters, such as paper dusts, replace the connectors or the units including the con- nectors.
	Shorted fuser thermistor.	Replace the fuser unit (see page 1-5-18).
	Defective engine PWB.	Replace the engine PWB and check for cor- rect operation (see page 1-5-31).
Abnormally low fuser thermistor 2 (center) tem- perature The fuser temperature lower than 100 °C/212 °F is detected continuously for 1 s	Deformed connec- tor pin.	If the I/F connector pins of the fuser unit and the main unit are deformed owing to foreign matters, such as paper dusts, replace the connectors or the units including the con- nectors.
The fuser temperature lower than 70 °C/158 °F is detected	Defective fuser thermistor.	Replace the fuser unit (see page 1-5-18).
continuously for 1 s during pre-heating.	Defective fuser heater.	
	Defective engine PWB.	Replace the engine PWB and check for cor- rect operation (see page 1-5-31).
	Fuser thermistor 2 (center)         break error         A/D value of the fuser thermistor 2 exceeds 984 bit continuously for 1 s during warming up.         NC sensor error         NC sensor error         Abnormally low fuser thermistor 2 (center) temperature         The fuser temperature lower than 100 °C/212 °F is detected continuously for 1 s during printing.         The fuser temperature lower than 70 °C/158 °F is detected continuously for 1 s during	Fuser thermistor 2 (center) break errorDefective connec- tor cable or poor contact in the con- nector.A/D value of the fuser thermis- tor 2 exceeds 984 bit continu- ously for 1 s during warming up.Deformed connec- tor pin.Deformed connec- tor pin.Defective fuser thermistor.Defective engine PWB.PWB.NC sensor errorDeformed connec- tor pin.NC sensor errorDeformed connec- tor pin.Defective engine PWB.Deformed connec- tor pin.Defective fuser thermistor 2 (center) tem- perature The fuser temperature lower than 100 °C/212 °F is detected continuously for 1 s during pre-heating.Defective fuser thermistor.Defective fuser thermistor.Defective fuser thermistor.Defective fuser thermistor.Defective fuser thermistor.

Code	Contents	Causes	Check procedures/ corrective measures
6120	Abnormally high fuser thermistor 3 (press roller) temperature The fuser temperature exceeds 200 °C/392 °F for 1	Deformed connec- tor pin.	If the I/F connector pins of the fuser unit and the main unit are deformed owing to foreign matters, such as paper dusts, replace the connectors or the units including the con- nectors.
	S.	Defective IH PWB.	Replace the IH PWB and check for correct operation (see page 1-5-35).
		Defective fuser thermistor.	Replace the fuser unit (see page 1-5-18).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
6130	<ul> <li>Fuser thermistor 3 (press roller) break error</li> <li>Fuser thermistor 3 detects a temperature of -14 °C/6.8 °F .</li> <li>Fuser thermistor 3 does not</li> </ul>	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Fuser thermistor 3 and fuser PWB (YC4) Fuser unit and engine PWB (YC22)
	reach 30° C/86 °F even after20 s during warming up.	Deformed connec- tor pin.	If the I/F connector pins of the fuser unit and the main unit are deformed owing to foreign matters, such as paper dusts, replace the connectors or the units including the con- nectors.
		Defective IH PWB.	Replace the IH PWB and check for correct operation (see page 1-5-35).
		Defective fuser thermistor.	Replace the fuser unit (see page 1-5-18).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
6150	Abnormally low fuser thermistor 3 (press roller) temperature The fuser temperature lower than 30 °C/86 °F is detected continuously for 1 s.	Deformed connec- tor pin.	If the I/F connector pins of the fuser unit and the main unit are deformed owing to foreign matters, such as paper dusts, replace the connectors or the units including the con- nectors.
		Defective fuser thermistor.	Replace the fuser unit (see page 1-5-18).
		Defective fuser heater.	
		Defective engine PWB.	Replace the engine PWB and check for cor- rect operation (see page 1-5-31).

Code	Contents	Causes	Check procedures/ corrective measures
6200	Broken fuser edge heater wire Fuser thermistor 1 does not reach 50° C/122 °F even after20 s during warming up. The detected temperature of	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. IH coil unit and IHPWB IHPWB and engine PWB (YC7)
	fuser thermistor1 does not reach the specified tempera- ture (ready indication temper- ature) for 20 s in warming up after reaching 50° C/122 °F.	Deformed connec- tor pin.	If the I/F connector pins of the fuser unit and the main unit are deformed owing to foreign matters, such as paper dusts, replace the connectors or the units including the con- nectors.
		Fuser thermostat triggered.	Reinsert the fuser unit (see page 1-5-18).
		Broken fuser heater wire.	
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
6220	Abnormally high fuser thermistor 1 (edge) temper- ature The fuser temperature exceeds 240 °C/464 °F for 1	Deformed connec- tor pin.	If the I/F connector pins of the fuser unit and the main unit are deformed owing to foreign matters, such as paper dusts, replace the connectors or the units including the con- nectors.
	S.	Defective cooling fan motor.	Replace the fuser fan motor.
		Defective fuser thermistor.	Replace the fuser unit (see page 1-5-18).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
6230	<b>Fuser thermistor 1 (edge)</b> <b>break error</b> During warming up a hearter, fuser thermistor 2 detects a temperature of 100 °C/212 °F or higher and, fuser thermistor 1 detects a temperature of 37 °C/99 °F or lower.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Fuser thermistor 1 and fuser PWB (YC3) Fuser unit and engine PWB (YC22)
		Deformed connec- tor pin.	If the I/F connector pins of the fuser unit and the main unit are deformed owing to foreign matters, such as paper dusts, replace the connectors or the units including the con- nectors.
		Defective fuser thermistor.	Replace the fuser unit (see page 1-5-18).
		Defective engine PWB.	Replace the engine PWB and check for cor- rect operation (see page 1-5-31).

Code	Contents	Causes	Check procedures/ corrective measures
6250	Abnormally low fuser thermistor 1 (edge) temper- ature The fuser temperature lower than 100 °C/212 °F is	Deformed connec- tor pin.	If the I/F connector pins of the fuser unit and the main unit are deformed owing to foreign matters, such as paper dusts, replace the connectors or the units including the con- nectors.
	detected continuously for 1 s during printing. The fuser temperature lower	Defective IH PWB.	Replace the IH PWB and check for correct operation (see page 1-5-35).
	than 50 °C/122 °F is detected continuously for 1 s during	Defective fuser thermistor.	Replace the fuser unit (see page 1-5-18).
	pre-heating.	Defective fuser heater.	
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
6410	Fuser unit type mismatch problem Absence of the fuser unit is	Fuser unit connec- tor inserted incor- rectly.	Reinsert the fuser unit connector if neces- sary.
	detected.	Different type of the fuser unit is installed.	Install the correct fuser unit.
6600	Belt rotation error The belt was detected to stop for 1 s continuously during motor remote is on.	Defective fuser motor.	Replace the fuser motor.
		Defective IH belt.	Replace the fuser unit (see page 1-5-18).
		Defective IH PWB.	Replace the IH PWB and check for correct operation (see page 1-5-35).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
6710	CPU thermal runaway (IHPWB)	Defective IH PWB.	Replace the IH PWB and check for correct operation (see page 1-5-35).
6720	Belt rotation error (IHPWB)	Defective IH PWB.	Replace the IH PWB and check for correct operation (see page 1-5-35).
		Defective fuser motor.	Replace the fuser motor.
		Defective fuser unit.	Replace the fuser unit.
6730	Abnormally high IGBT1 temperature (IHPWB)	Defective IH PWB.	Replace the IH PWB and check for correct operation (see page 1-5-35).
		Defective cooling fan motor.	Replace the IH fan motor.

Code	Contents	Causes	Check procedures/ corrective measures
6740	Abnormally high IGBT2 temperature (IHPWB)	Defective IH PWB.	Replace the IH PWB and check for correct operation (see page 1-5-35).
		Defective cooling fan motor.	Replace the IH fan motor.
6750	Abnormally output overcur- rent (IHPWB)	Defective IH PWB.	Replace the IH PWB and check for correct operation (see page 1-5-35).
		Defective fuser unit.	Replace the fuser unit.
6760	Abnormally AC input over- current (IHPWB)	Defective IH PWB.	Replace the IH PWB and check for correct operation (see page 1-5-35).
6770	Abnormally low electric power (IHPWB)	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable.
		Defective IH PWB.	Replace the IH PWB and check for correct operation (see page 1-5-35).
6930	<b>IH coil fan motor error</b> The alarm signal was detected for 5 seconds contin- uously during operation.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. IH coil fan motor and engine PWB(YC21)
		Defective cooling fan motor.	Replace the IH coil fan motor.
		Defective IH PWB.	Replace the IH PWB and check for correct operation (see page 1-5-35).
6950	IH CPU communication error A communication error is detected 3 times in succes-	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable.
	sion.	Defective IH PWB.	Replace the IH PWB and check for correct operation (see page 1-5-35).
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
6990	Fuser unit type mismatch problem Absence of the fuser unit is detected.	Defective IH PWB.	Replace the IH PWB and check for correct operation (see page 1-5-35).

Code	Contents	Causes	Check procedures/ corrective measures
7001	<b>Toner motor K error</b> When the toner motor K is driven, error signal is detected continuously for 1 s.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Toner motor K and engine PWB(YC8)
		Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
		Defective motor.	Replace the toner motor K.
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7002	<b>Toner motor C error</b> When the toner motor C is driven, error signal is detected continuously for 1 s.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Toner motor C and engine PWB(YC8)
		Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
		Defective motor.	Replace the toner motor C.
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7003	<b>Toner motor M error</b> When the toner motor M is driven, error signal is detected continuously for 1 s.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Toner motor M and engine PWB(YC8)
		Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
		Defective motor.	Replace the toner motor M.
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).

Code	Contents	Causes	Check procedures/ corrective measures
7004	<b>Toner motor Y error</b> When the toner motor Y is driven, error signal is detected continuously for 1 s.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Toner motor Y and engine PWB(YC8)
		Defective drive transmission sys- tem.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
		Defective motor.	Replace the toner motor Y.
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7101	Toner sensor K error	Defective Devel- oper unit.	Replace the developer unit K (see page 1-5-14).
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7102	Toner sensor C error	Defective Devel- oper unit.	Replace the developer unit C (see page 1-5-14).
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7103	Toner sensor M error	Defective Devel- oper unit.	Replace the developer unit M (see page 1-5-14).
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7104	Toner sensor Y error	Defective Devel- oper unit.	Replace the developer unit Y (see page 1-5-14).
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7401	Developing unit K type mis- match problem Absence of the developing	Developing unit connector inserted incorrectly.	Reinsert the developing unit connector if necessary.
	unit K is detected.	Different type of the developing unit is installed.	Install the correct developing unit.
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).

Code	Contents	Causes	Check procedures/ corrective measures
7402	Developing unit C type mis- match problem Absence of the developing unit C is detected.	Developing unit connector inserted incorrectly.	Reinsert the developing unit connector if necessary.
		Different type of the developing unit is installed.	Install the correct developing unit.
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7403	Developing unit M type mis- match problem Absence of the developing	Developing unit connector inserted incorrectly.	Reinsert the developing unit connector if necessary.
	unit M is detected.	Different type of the developing unit is installed.	Install the correct developing unit.
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7404	Developing unit Y type mis- match problem Absence of the developing unit Y is detected.	Developing unit connector inserted incorrectly.	Reinsert the developing unit connector if necessary.
		Different type of the developing unit is installed.	Install the correct developing unit.
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7411	Drum unit K type mismatch problem Absence of the drum unit K is	Drum unit connec- tor inserted incor- rectly.	Reinsert the drum unit connector if neces- sary.
	detected.	Different type of the drum unit is installed.	Install the correct drum unit.
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7412	Drum unit C type mismatch problem Absence of the drum unit C is detected.	Drum unit connec- tor inserted incor- rectly.	Reinsert the drum unit connector if neces- sary.
		Different type of the drum unit is installed.	Install the correct drum unit.
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).

Code	Contents	Causes	Check procedures/ corrective measures
7413	Drum unit M type mismatch problem Absence of the drum unit M is detected.	Drum unit connec- tor inserted incor- rectly.	Reinsert the drum unit connector if neces- sary.
		Different type of the drum unit is installed.	Install the correct drum unit.
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7414	Drum unit Y type mismatch problem Absence of the drum unit Y is	Drum unit connec- tor inserted incor- rectly.	Reinsert the drum unit connector if neces- sary.
	detected.	Different type of the drum unit is installed.	Install the correct drum unit.
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7420	<ul> <li>Transfer belt unit type mis- match problem</li> <li>Absence of the transfer belt unit is detected.</li> </ul>	Transfer belt unit connector inserted incorrectly.	Reinsert the transfer belt unit connector if necessary.
		Different type of the transfer belt unit is installed.	Install the correct transfer belt unit.
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7601	ID sensor 1 (front) error	Defective ID sen- sor.	Replace the ID sensor 1.
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7602	ID sensor 2 (rear) error	Defective ID sen- sor.	Replace the ID sensor 2.
		Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7611	ID sensor (K) density error When ID sensor 2 detected	Defective ID sen- sor.	Replace the ID sensor.
	CTD is 500 or less.	Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7612	ID sensor (C) density error When ID sensor 2 detected	Defective ID sen- sor.	Replace the ID sensor.
	CTD is 500 or less.	Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7613	ID sensor (M) density error When ID sensor 2 detected	Defective ID sen- sor.	Replace the ID sensor.
	CTD is 500 or less.	Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).

Code	Contents	Causes	Check procedures/ corrective measures
7614	ID sensor (Y) density error When ID sensor 2 detected	Defective ID sen- sor.	Replace the ID sensor.
	CTD is 500 or less.	Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7620	ID sensor timing error Color registration correction	Defective ID sen- sor.	Replace the ID sensor.
	was failed.	Defective PWB.	Replace the engine PWB check for correct operation (see page 1-5-31).
7800	Broken external thermistor wire The external thermistor deliv- ers 0.3V or more.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Temperature sensor and engine PWB (YC21)
		Defective tempera- ture sensor.	Replace the temperature sensor.
7810	Short-circuited external thermistor wire external thermistor delivers 3V or more.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Temperature sensor and engine PWB (YC21)
		Defective tempera- ture sensor.	Replace the temperature sensor.
7901	Drum K EEPROM error No response is issued from the device in reading/writing for 5 ms or more and this problem is repeated five times successively. Mismatch of reading data from two locations occurs eight	Poor contact in the connector termi- nals.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Drum unit (K) and drum connect PWB(YC5) drum connect PWB and engine connect PWB (YC4) Engine connect PWB and engine PWB (YC9)
	times successively. Mismatch between writing data and reading data occurs eight times successively.	Defective drum PWB.	Replace the drum unit K (see 1-5-16).

Code	Contents	Causes	Check procedures/ corrective measures
7902	Drum C EEPROM error No response is issued from the device in reading/writing for 5 ms or more and this problem is repeated five times successively. Mismatch of reading data from two locations occurs eight times successively.	Poor contact in the connector termi- nals. Defective drum	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Drum unit (C) and drum connect PWB(YC3) drum connect PWB and engine connect PWB (YC4) Engine connect PWB and engine PWB (YC9) Replace the drum unit C (see 1-5-16).
	Mismatch between writing data and reading data occurs eight times successively.	PWB.	
7903	Drum M EEPROM errorNo response is issued fromthe device in reading/writingfor 5 ms or more and thisproblem is repeated five timessuccessively.Mismatch of reading data fromtwo locations occurs eighttimes successively.Mismatch between writingdata and reading data occurseight times successively.	Poor contact in the connector termi- nals. Defective drum	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Drum unit (M) and drum connect PWB(YC4) drum connect PWB and engine connect PWB (YC4) Engine connect PWB and engine PWB (YC9) Replace the drum unit M (see 1-5-16).
		PWB.	
7904	Drum Y EEPROM errorNo response is issued fromthe device in reading/writingfor 5 ms or more and thisproblem is repeated five timessuccessively.Mismatch of reading data fromtwo locations occurs eighttimes successively.Mismatch between writingdata and reading data occurseight times successively.	Poor contact in the connector terminals.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Drum unit (Y) and drum connect PWB(YC2) drum connect PWB and engine connect PWB (YC4) Engine connect PWB and engine PWB (YC9)
		Defective drum PWB.	Replace the drum unit Y (see 1-5-16).
7911	Developing unit K EEPROM errorNo response is issued from the device in reading/writing for 5 ms or more and this problem is repeated five times successively.Mismatch of reading data from two locations occurs eight	Poor contact in the connector terminals.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Developer unit (K) and drum connect PWB(YC9) drum connect PWB and engine connect PWB (YC4) Engine connect PWB and engine PWB (YC12)
	times successively. Mismatch between writing data and reading data occurs eight times successively.	Defective develop- ing PWB.	Replace the developer unit K (see 1-5-14).

Code	Contents	Causes	Check procedures/ corrective measures
7912	Developing unit C EEPROM error No response is issued from the device in reading/writing for 5 ms or more and this problem is repeated five times successively. Mismatch of reading data from two locations occurs eight	Poor contact in the connector terminals.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Developer unit (C) and drum connect PWB(YC7) drum connect PWB and engine connect PWB (YC4) Engine connect PWB and engine PWB (YC12)
	times successively. Mismatch between writing data and reading data occurs eight times successively.	Defective develop- ing PWB.	Replace the developer unit C (see 1-5-14).
7913	Developing unit M EEPROM error No response is issued from the device in reading/writing for 5 ms or more and this problem is repeated five times successively. Mismatch of reading data from two locations occurs eight times successively. Mismatch between writing data and reading data occurs eight times successively.	Poor contact in the connector terminals.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Developer unit (M) and drum connect PWB(YC8) drum connect PWB and engine connect PWB (YC4) Engine connect PWB and engine PWB (YC12)
		Defective develop- ing PWB.	Replace the developer unit M (see 1-5-14).
7914	Developing unit Y EEPROM error No response is issued from the device in reading/writing for 5 ms or more and this problem is repeated five times successively. Mismatch of reading data from two locations occurs eight	Poor contact in the connector terminals.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Developer unit (Y) and drum connect PWB(YC6) drum connect PWB and engine connect PWB (YC4) Engine connect PWB and engine PWB (YC12)
	times successively. Mismatch between writing data and reading data occurs eight times successively.	Defective develop- ing PWB.	Replace the developer unit Y (see 1-5-14).

Code	Contents	Causes	Check procedures/ corrective measures
8030	Tray upper limit detection problem (document fin- isher) When the tray elevation motor raises a tray, the ON status of the tray upper limit sensor is detected.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Tray upper limit sensor and DF main PWB (CN5) Paper surface sensor 1/2 and DF main PWB (CN6)
		Defective tray upper limit sensor, paper surface sen- sor 1/2.	Replace the sensor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
8040	Belt problem (document fin- isher) The belt sensor does not turn on/off within specified time of the belt solenoid turning on.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Belt sensor and DF main PWB (CN10) Belt solenoid and DF main PWB (CN21)
		Defective belt sen- sor.	Replace the belt sensor.
		Defective belt sole- noid.	Replace the belt solenoid.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
8140	Tray elevation motor prob- lem (document finisher) The tray low limit sensor or paper surface sensor 1/2 can- not be detected to be on	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Tray elevation motor and DF main PWB (CN12)
	within 10 s since the tray ele- vation motor is activated.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Tray lower limit sensor, and DF main PWB (CN5) Paper surface sensor 1/2 and DF main PWB (CN6)
		The tray elevation motor malfunc- tions.	Replace the tray elevation motor.
		Defective tray lower limit sensor, paper surface sen- sor 1/2.	Replace the sensor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
8210	Stapler problem (document finisher) Jam 7012 or 7023 is indi- cated.	Defective connec- tor cable of staple or poor contact in the connector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable.
		The stapler is blocked with a sta- ple.	Remove the stapler cartridge, and check the cartridge and the stapling section of the stapler.
		The stapler is bro- ken.	Replace the stapler and check for correct operation.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
8320	Adjustment motor 2 prob- lem (document finisher) The adjustment sensor 2 does not turn on/off within specified time of the adjustment motor 2 turning on.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Adjustment motor 2 and DF main PWB (CN18) Adjustment sensor 2 and DF main PWB (CN7)
		Defective adjust- ment sensor 2.	Replace the adjustment sensor 2.
		Defective adjust- ment motor 2.	Replace the adjustment motor 2.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
8330	Adjustment motor 1 prob- lem (document finisher) The adjustment sensor 1 does not turn on/off within specified time of the adjustment motor 1 turning on.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Adjustment motor 1 and DF main PWB (CN18) Adjustment sensor 1 and DF main PWB (CN7)
		Defective adjust- ment sensor 1.	Replace the adjustment sensor 1.
		Defective adjust- ment motor 1.	Replace the adjustment motor 1.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.

Code	Contents	Causes	Check procedures/ corrective measures
8350	Roller motor problem (doc- ument finisher) The roller sensor does not turn on/off within specified time of the roller motor turning	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Roller motor and DF main PWB (CN20) Roller sensor and DF main PWB (CN11)
	on.	Defective roller sensor.	Replace the roller sensor.
		Defective roller motor.	Replace the roller motor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
8360	Slide motor problem (docu- ment finisher) The slide sensor does not turn on/off within specified time of the slide motor turning on.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Slide motor and DF main PWB (CN14) Slide sensor and DF main PWB (CN22)
		Defective slide sensor.	Replace the slide sensor.
		Defective slide motor.	Replace the slide motor.
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
8460	EEPROM problem (docu- ment finisher) Reading from or writing to EEPROM cannot be per- formed.	Defective EEPROM or DF main PWB.	Replace the DF main PWB and check for correct operation.
8800	Document finisher commu- nication error A communication error is detected 10 times in succes- sion.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Engine PWB (YC19) and DF relay PWB (YC2) DF relay PWB (YC3) and DF main PWB (CN1)
		Defective DF main PWB.	Replace the DF main PWB and check for correct operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).

Code	Contents	Causes	Check procedures/ corrective measures
8830	Bridge communication error (document finisher) A communication error is detected 10 times in succes- sion.	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. Engine PWB (YC19) and DF relay PWB (YC2) DF relay PWB (YC4) and bridge PWB (YC5)
		Defective bridge PWB.	Replace the bridge PWB and check for cor- rect operation.
		Defective engine PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
8900	Backup memory data prob- lem (document finisher) Read and write data does not match 3 times in succession.	Defective connec- tor cable or poor contact in the con- nector.	Check the connection of connector on the finisher main PWB and the connector of the machine, and the continuity across the connector terminals. Repair or replace if necessary.
		EEPROM installed incorrectly.	Install EEPROM correctly.
		Defective finisher main PWB.	Replace the finisher main PWB and check for correct operation.
9000	Document processor com- munication error A communication error is detected 10 times in succes-	Defective connec- tor cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. DP main PWB and engine PWB (YC18)
	sion.	Defective DP main PWB.	Replace the DP main PWB and check for correct operation (see page 1-5-28).
9060	<b>DP EEPROM error</b> Mismatch between writing	Defective DP main PWB.	Replace the DP main PWB and check for correct operation (see page 1-5-28).
	data and reading data occurs three times successively. Mismatch of reading data from two locations occurs three times successively.	Device damage of EEPROM.	Contact the Service Administrative Division.
9500	BRU communication error	IPU PWB error	Contact the Service Administrative Division.
9510	BRU PWB error		
9520	BRU PWB data error		

Code	Contents	Causes	Check procedures/ corrective measures
F000	Main PWB - operation panel PWB communication error	Defective main PWB.	Turn the main power switch off/on to restart the machine. If the error is not resolved, replace main PWB (see page 1-5-30).
		Defective opera- tion panel PWB.	Replace the operation panel PWB and check for correct operation.
F010	Main PWB checksum error	Defective main	Turn the main power switch off/on to restart
F011		PWB.	the machine. If the error is not resolved,
F012			replace main PWB (see page 1-5-30).
F013			
F040	Main PWB - print engine communication error	Defective main PWB.	Turn the main power switch off/on to restart the machine. If the error is not resolved, replace main PWB (see page 1-5-30).
		Defective engine PWB.	Replace the engine PWB and check for cor- rect operation (see page 1-5-31).
F050	Print engine ROM check- sum error	Defective engine PWB.	Turn the main power switch off/on to restart the machine. If the error is not resolved, replace engine PWB (see page 1-5-31).

# 1-4-3 Image quality problems

(2) No image

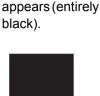
If the part causing the problem is not designated as a service part, replace with the assembly comprising the part.

(3) Image is too

light.

(1) No image appears (entirely white).





See page 1-4-41

printed horizon-

tally.

See page 1-4-41

(6) Black streaks (7) Streaks are are printed vertically.



See page 1-4-43

(11) The leading edge of the image is consistently misaligned with the original.



See page 1-4-44 (16)Fusing is loose. (17)Image is out of



See page 1-4-43

edge of the

image is spo-

radically mis-

(12)The leading

See page 1-4-44 focus.



See page 1-4-45

See page 1-4-46

See page 1-4-42 (8) One side of the print image is darker than the other.



See page 1-4-43 (13)Paper is wrinkled.

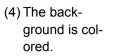


See page 1-4-45

(18)Image center does not align with the original center.



See page 1-4-46





See page 1-4-42 (9) Spots are printed.



See page 1-4-44 (14)Offset occurs.

(5) White streaks are printed vertically.



See page 1-4-42 (10)Image is blurred.



See page 1-4-44 (15)Part of image is missing.



See page 1-4-45



See page 1-4-45



1-4-40

## (1) No image appears (entirely white).

Print example		Causes	Check procedures/corrective measures
	Defective transfer bias output.	Defective connector cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity of the connector cable. If necessary, replace the cable. High voltage PWB and engine PWB (YC15) High voltage PWB sub and engine PWB (YC13)
		Defective high voltage PWB.	Replace the high voltage PWB.
		Defective high voltage PWB sub.	Replace the high voltage PWB sub.
		Defective engine PWB.	Replace the engine PWB (see page 1-5-31).
	Defective developer bias output.	Defective connector cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity of the connector cable. If necessary, replace the cable. High voltage PWB and engine PWB (YC15)
		Defective high voltage PWB.	Replace the high voltage PWB.
		Defective engine PWB.	Replace the engine PWB (see page 1-5-31).
	No LSU laser is out-	Defective laser scanner unit.	Replace the laser scanner unit (see page 1-5-20).
	put.	Defective main PWB.	Replace the main PWB (see page 1-5-30).

## (2) No image appears (entirely black).

Print example		Causes	Check procedures/corrective measures
	No main charging.	Defective connector cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. High voltage PWB and engine PWB (YC15)
		Defective charger roller unit.	Replace the charger roller unit (see page 1-5-16).
		Defective high voltage PWB.	Replace the high voltage PWB.
		Defective engine PWB.	Replace the engine PWB (see page 1-5-31).
	Exposure lamp fails to light.	Defective connector cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. LED PWB and main PWB (YC112) CCD PWB and main PWB (YC113)
		Defective CCD PWB.	Replace the image scanner unit (see page 1-5-21).
		Defective main PWB.	Replace the main PWB (see page 1-5-30).

## (3) Image is too light.

Print example		Causes	Check procedures/corrective measures
	Defective transfer charger out- put.	Defective connector cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. High voltage PWB and engine PWB (YC15) High voltage PWB sub and engine PWB (YC13)
		Defective high voltage PWB.	Replace the high voltage PWB (see page 1-5-35).
		Defective high voltage PWB sub.	Replace the high voltage PWB sub (see page 1-5-35).
		Defective engine PWB.	Replace the engine PWB (see page 1-5-31).
	Insufficient to	ner.	If the display shows the message requesting toner replenishment, replace the container.
	Deteriorated	toner.	Perform the drum refresh operation.

## (4) The background is colored.

Print example	Causes		Check procedures/corrective measures
	Defective main charger out- put.	Defective connector cable or poor contact in the con- nector.	Reinsert the connector. Also check for conti- nuity within the connector cable. If none, replace the cable. High voltage PWB and engine PWB (YC15)
		Defective high voltage PWB.	Replace the high voltage PWB.
		Defective engine PWB.	Replace the engine PWB (see page 1-5-31).
	Deteriorated	toner.	Perform the drum refresh operation.

## (5) White streaks are printed vertically.

Print example	Causes	Check procedures/corrective measures
	Foreign matter in the devel- oper unit.	Check if the magnetic brush is formed uniformly. Replace the developer unit if any foreign matter (see page 1-5-14).
	Dirty shading plate.	Clean the shading plate.
	Adhesion of soiling to transfer belt.	Clean the transfer belt. Replace the intermadiate transfer unit if it is extremely dirty (see page 1-5-17).
	Adhesion of soiling to transfer roller.	Clean the transfer roller. Replace the transfer roller unit if it is extremely dirty (see page 1-5-17).
	Dirty LSU dust shield glass.	Perform the LSU dust shield glass cleaning.

Print example	Causes	Check procedures/corrective measures
	Dirty contact glass.	Clean the contact glass.
	Dirty slit glass.	Clean the slit glass.
	Dirty or flawed drum.	Perform the drum refresh operation. Flawed drum. Replace the drum unit (see page 1-5-16).
	Deformed or worn cleaning blade in the drum unit.	Replace the drum unit (see page 1-5-16).
	Defective transfer belt.	Replace the intermidiate transfer unit (see page 1-5-17).
	Defective transfer roller.	Replace the transfer roller unit(see page 1-5-17).
	Dirty scanner mirror.	Clean the scanner mirror.

## (6) Black streaks are printed vertically.

## (7) Streaks are printed horizontally.

Print example	Causes	Check procedures/corrective measures
	Dirty or flawed drum.	Perform the drum refresh operation. Flawed drum. Replace the drum unit (see page 1-5-16).
	Dirty developer section.	Clean any part contaminated with toner in the developer section.
	Poor contact of grounding ter- minal of drum unit.	Check the installation of the drum unit. If it operates incorrectly, replace it (see page 1-5-16).

## (8) One side of the print image is darker than the other.

Print example	Causes	Check procedures/corrective measures
	Defective exposure lamp.	Replace the LED PWB (see page 1-5-23).

## (9) Spots are printed.

Print example	Causes	Check procedures/corrective measures
	Dirty contact glass.	Clean the contact glass.
	Dirty or flawed drum.	Perform the drum refresh operation. Flawed drum. Replace the drum unit (see page 1-5-16).
	Deformed or worn cleaning blade in the drum unit.	Replace the drum unit (see page 1-5-16).
	Flawed developer roller.	Replace the developer unit (see page 1-5-14).
	Dirty heat roller and press roller.	Clean the heat roller and press roller.

## (10) Image is blurred.

Print example	Causes	Check procedures/corrective measures
	Scanner moves erratically.	Check if there is any foreign matter on the front and rear scanner rails. If any, remove it.
	Deformed press roller.	Replace the fuser unit (see page 1-5-18).
	Paper conveying section drive problem.	Check the gears and belts and, if necessary, grease them.

## (11) The leading edge of the image is consistently misaligned with the original.

Print example	Causes	Check procedures/corrective measures
	Misadjusted leading edge reg- istration.	Run maintenance mode U034 to readjust the leading edge registration (see page 1-3-21).
	Misadjusted scanner leading edge registration.	Run maintenance mode U066 to readjust the scanner leading edge registration (see page 1-3-31).

## (12) The leading edge of the image is sporadically misaligned with the original.

Print example	Causes	Check procedures/corrective measures
	Paper feed clutch, registra- tion clutch or duplex clutch operating incorrectly.	Check the installation of the clutch. If it operates incor- rectly, replace it.

## (13) Paper is wrinkled.

Print example	Causes	Check procedures/corrective measures
	Paper curled.	Check the paper storage conditions.
	Paper damp.	Check the paper storage conditions.
{	Defective pressure springs.	Replace the fuser unit (see page 1-5-18).

## (14) Image is off-set.

Print example	Causes	Check procedures/corrective measures
	Deformed or worn cleaning blade in the drum unit.	Replace the drum unit (see page 1-5-16).
	Defective fuser unit.	Replace the fuser unit (see page 1-5-18).
	Wrong types of paper.	Check if the paper meets specifications. Replace paper.

## (15) Part of image is missing.

Print example	Causes	Check procedures/corrective measures
	Paper damp.	Check the paper storage conditions.
	Paper creased.	Replace the paper.
	Drum condensation.	Perform the drum refresh operation.
	Dirty or flawed drum.	Perform the drum refresh operation. Flawed drum. Replace the drum unit (see page 1-5-16).
	Dirty transfer belt.	Clean the transfer belt. Replace the intermidate transfer unit if it is extremely dirty (see page 1-5-17).
	Dirty transfer roller.	Clean the transfer roller. Replace the transfer roller unit if it is extremely dirty (see page 1-5-17).

## (16) Fusing is loose.

Print example	Causes	Check procedures/corrective measures
	Wrong types of paper.	Check if the paper meets specifications, replace paper.
	Flawed heat roller or press roller.	Replace the fuser unit (see page 1-5-18).
	Defective pressure springs.	
	Defective fuser heater.	

# (17) Image is out of focus.

Print example	Causes	Check procedures/corrective measures
	Defective image scanning unit.	Replace the image scanning unit (see page 1-5-21).
	Drum condensation.	Perform the drum refresh operation.

## (18) Image center does not align with the original center.

Print example	Causes	Check procedures/corrective measures
	Misadjusted image center line.	Run maintenance item U034 to readjust the center line of image printing (see page 1-3-22).
	Misadjusted scanner center line.	Run maintenance item U067 to readjust the scanner lead- ing edge registration (see page 1-3-32).
	Original is not placed cor- rectly.	Place the original correctly.

# 1-4-4 Electric problems

If the part causing the problem s not designated as a service part, replace with the assembly comprising the part.

Troubleshooting to each	n failure must be m	ade in the order of	f the numbered Problems.

Problem	Causes	Check procedures/corrective measures
(1) The machine does	<ol> <li>No electricity at the power outlet.</li> </ol>	Measure the input voltage.
not operate when the main power switch is turned on.	<ol> <li>The power cord is not plugged in prop- erly.</li> </ol>	Check the contact between the power plug and the outlet.
	3. Broken power cord.	Check for continuity. If none, replace the cord.
	<ol> <li>Defective main power switch.</li> </ol>	Check for continuity across the contacts. If none, replace the power switch.
	5. Defective interlock switch.	Check for continuity across the contacts of interlock switch. If none, replace the power source PWB (see page 1-5-32).
	6. Defective power source PWB.	Replace the power source PWB (see page 1-5-32).
(2) ISU motor does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. ISU motor and engine PWB (YC17)
	2. Defective drive trans- mission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
	3. Defective motor.	Replace the ISU motor.
	4. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
(3) Eject motor does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Eject motor and engine PWB (YC6)
	2. Defective drive trans- mission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
	3. Defective motor.	Replace the eject motor.
	4. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).

Problem	Causes	Check procedures/corrective measures
(4) ID Shutter motor does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. ID Shutter motor and engine connect PWB (YC17) engine connect PWB and engine PWB (YC9)
	<ol> <li>Defective drive trans- mission system.</li> </ol>	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
	3. Defective motor.	Replace the ID Shuttermotor.
	4. Defective PWB.	Replace the engine PWB or engin connect PWB and check for correct operation (see page 1-5-31).
(5) Fuser pressure release motor does	<ol> <li>Defective connector cable or poor con- tact in the connector.</li> </ol>	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Fuser pressure release motor and engine PWB (YC22)
not operate.	2. Defective drive trans- mission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
	3. Defective motor.	Replace the Fuser pressure release motor.
	4. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
(6) Controller fan motor does not	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Controller fan motor and main PWB (YC41)
operate.	2. Defective motor.	Replace the controller fan motor.
	3. Defective PWB.	Replace the main PWB and check for correct operation (see page 1-5-30).
(7) Power source fan motor does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Power source fan motor and engine connect PWB (YC11) engine connect PWB and engine PWB (YC9)
	2. Defective motor.	Replace the power source fan motor.
	3. Defective PWB.	Replace the engine PWB or engine connect PWB and check for correct operation (see page 1-5-31).
(8) Developer fan motor does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Developer fan motor and engine connect PWB (YC6) engine connect PWB and engine PWB (YC9)
	2. Defective motor.	Replace the developer fan motor.
	3. Defective PWB.	Replace the engine PWB or engine connect PWB and check for correct operation (see page 1-5-31).

Problem	Causes	Check procedures/corrective measures
(9) LSU fan motor does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. LSU fan motor and engine connect PWB (YC6) Engine connect PWB and engine PWB (YC9)
	2. Defective motor.	Replace the LSU fan motor.
	3. Defective PWB.	Replace the engine PWB engine connect PWB and check for correct operation (see page 1-5-31).
(10) IH fan motor does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. IH fan motor and main PWB (YC4)
	2. Defective motor.	Replace the IH fan motor.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
(11) Fuser fan motor does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Fuser fan motor and engine PWB (YC28)
	2. Defective motor.	Replace the Fuser fan motor.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
(12) Container fan motor does not	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Container fan motor and engine PWB (YC21)
operate.	2. Defective motor.	Replace the container fan motor.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
(13) IH coil fan motor does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. IH coil fan motor and engine PWB (YC21)
	2. Defective motor.	Replace the IH coil fan motor.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
(14) Imaging fan motor does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Imaging fan motor and engine connect PWB (YC11) Engine connect PWB and engine PWB
	2. Defective motor.	Replace the Imaging fan motor.
	3. Defective PWB.	Replace the engine PWB or engine connect PWB and check for correct operation (see page 1-5-31).
(15) Paper feed clutch does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Paper feed clutch and engine PWB (YC2)
	2. Defective clutch.	Replace the paper feed clutch.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).

Problem	Causes	Check procedures/corrective measures
(16) Mid clutch does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Mid clutch and engine PWB (YC2)
	2. Defective clutch.	Replace the mid clutch.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
(17) Registration clutch does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Registration clutch and engine PWB (YC2)
	2. Defective clutch.	Replace the registration clutch.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
(18) Duplex clutch does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Duplex clutch and engine PWB (YC2)
	2. Defective clutch.	Replace the duplex clutch.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
(19) Developer stop clutch does not	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Developer stop clutch and engine PWB (YC3)
operate.	2. Defective clutch.	Replace the developer stop clutch.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
(20) MP solenoid does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. MP solenoid and engine PWB (YC2)
	2. Defective solenoid.	Replace the MP solenoid.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
(21) Feedshift solenoid does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Feedshift solenoid and engine PWB (YC20)
	2. Defective solenoid.	Replace the Feedshift solenoid.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).

Problem	Causes	Check procedures/corrective measures
(22) The message requesting paper to be loaded is shown	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Paper sensor and engine connect PWB (YC15) Engine connect PWB to engine PWB (YC9)
when paper is present on the cas- sette.	2. Deformed actuator of the paper sensor.	Check visually and replace if necessary.
Selle.	3. Defective paper sen- sor.	Replace the cassette PWB.
	4. Defective PWB.	Replace the engine PWB or engine connect PWB and check for correct operation (see page 1-5-31).
(23) The message requesting paper to	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. MP paper sensor and engine PWB (YC28)
be loaded is shown when paper is present on the MP	2. Deformed actuator of the MP paper sensor.	Check visually and replace if necessary.
tray.	<ol> <li>Defective MP paper sensor.</li> </ol>	Replace the MP paper sensor.
	4. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
(24) The size of paper on the cassette is not displayed cor-	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. Paper size width switch and engine PWB (YC14) Paper size length switch and engine PWB (YC14)
rectly.	2. Defective cassette size switch.	Replace the paper size width switch or paper size length switch.
	3. Defective PWB.	Replace the engine PWB and check for correct operation (see page 1-5-31).
(25) A paper jam in the paper feed, paper conveying or eject section is indi- cated when the	1. A piece of paper torn from paper is caught around registration sensor, duplex sen- sor, feed sensor or eject sensor.	Check visually and remove it, if any.
main power switch is turned on.	2. Defective sensor.	Replace the registration sensor, duplex sensor, feed sensor or eject sensor.
(26) A message indicat-	1. Deformed actuator of the interlock switch.	Check visually and replace if necessary.
ing cover open is displayed when the front cover or right cover is closed.	2. Defective interlock switch.	Replace the interlock switch.

Problem	Causes	Check procedures/corrective measures
(27) The LED lamp does not turn on when original is	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DP original sensor and DP main PWB (YC3) DP main PWB (YC1) and engine PWB (YC18)
present on the DP.	<ol> <li>Defective DP origi- nal sensor.</li> </ol>	Replace the DP original sensor.
	3. Defective PWB.	Replace the DPLED PWB and check for correct operation.
		Replace the engine PWB and check for correct operation (see page 1-5-31).
(28) The size of original on the DP is not displayed correctly.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DP original size width sensor and DP main PWB (YC4) DP original size length sensor and DP main PWB (YC2) DP main PWB (YC1) and engine PWB (YC18)
	2. Defective original size sensor.	Replace the DP original size width sensor or DP original size length sensor.
	3. Defective PWB.	Replace the DP main PWB or engine PWB and check for correct operation (see page 1-5-28,1-5-31).
(29) DP paper feed motor does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DP paper feed motor and DP main PWB (YC9) DP main PWB (YC1) and engine PWB (YC18)
	2. Defective drive trans- mission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
	3. Defective motor.	Replace the DP paper feed motor.
	4. Defective PWB.	Replace the DP main PWB or engine PWB and check for correct operation (see page 1-5-28,1-5-31).
(30) DP switchback motor does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DP switchback motor and DP main PWB (YC9) DP main PWB (YC1) and engine PWB (YC18)
	2. Defective drive trans- mission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushes and gears. Check for broken gears and replace if any.
	3. Defective motor.	Replace the DP switchback motor.
	4. Defective PWB.	Replace the DP main PWB or engine PWB and check for correct operation (see page 1-5-28,1-5-31).

Problem	Causes	Check procedures/corrective measures
(31) DP paper feed clutch does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DP paper feed clutch and DP main PWB (YC8) DP main PWB (YC1) and engine PWB (YC18)
	2. Defective clutch.	Replace the DP paper feed clutch.
	3. Defective PWB.	Replace the DP main PWB or engine PWB and check for correct operation (see page 1-5-28,1-5-31).
(32) DP registration clutch does not operate.	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DP registration clutch and DP main PWB (YC8) DP main PWB (YC1) and engine PWB (YC18)
	2. Defective clutch.	Replace the DP registration clutch.
	3. Defective PWB.	Replace the DP main PWB or engine PWB and check for correct operation (see page 1-5-28,1-5-31).
(33) An original jams when the main power switch is turned on.	1. A piece of paper torn from an original is caught around the DP paper feed sen- sor, DP registration sensor or DP timing sensor.	Check visually and remove it, if any.
	2. Defective sensor.	Replace the DP paper feed sensor, DP registration sensor or DP timing sensor.
(34) A message indicat- ing cover open is displayed when the	1. Defective connector cable or poor con- tact in the connector.	Reinsert the connector. Also check for continuity within the connector cable. If none, replace the cable. DP open/close sensor and DP main PWB (YC5) DP main PWB (YC1) and engine PWB (YC18)
DP top cover is closed.	2. Defective DP open/ close sensor.	Replace the DP open/close sensor.

# 1-4-5 Mechanical problems

Problem	Causes/check procedures	Corrective measures
(1) No primary paper feed.	Check if the surfaces of the following roll- ers are dirty with paper dusts. Pickup roller Paper feed roller MP paper feed roller	Clean with isopropyl alcohol.
	Check if any of the following rollers is deformed. Pickup roller Paper feed roller MP paper feed roller	Check visually and replace any deformed (see page 1-5-10, 1-5-11).
	Defective paper feed clutch installation.	Check visually and remedy if necessary.
(2) No secondary paper feed.	Check if the surfaces of the following roll- ers are dirty with paper powder. Right registration roller Left registration roller	Clean with isopropyl alcohol.
	Defective registration clutch installation.	Check visually and remedy if necessary.
(3) Skewed paper feed.	Paper width guide in the cassette are installed incorrectly.	Check the paper width guide visually and remedy or replace if necessary.
(4)	Check if the paper is excessively curled.	Change the paper.
Multiple sheets of paper are fed.	Paper is loaded incorrectly.	Load the paper correctly.
	Check if the retard roller is worn.	Replace the retard roller if it is worn (see page 1-5-10).
(5)	Check if the paper is excessively curled.	Change the paper.
Paper jams.	Check if the contact between the right and left registration rollers is correct.	Check visually and remedy if necessary.
	Check if the heat roller or press roller is extremely dirty or deformed.	Check visually and replace the fuser unit (see page 1-5-18).
(6) Toner drops on the paper conveying path.	Check if the drum unit or developer unit is extremely dirty.	Clean the drum unit or developer unit.

If the part causing the problem was not supplied, use the unit including the part for replacement.

Problem	Causes/check procedures	Corrective measures
(7) Abnormal noise is	Check if the rollers, pulleys and gears operate smoothly.	Grease the bushes and gears.
heard.	Check if the following clutches are installed correctly. Paper feed clutch Mid clutch Registration clutch Duplex clutch	Check visually and remedy if necessary.
(8) No primary original feed.	Check if the surfaces of the following pul- leys are dirty with paper powder. DP forwarding pulley DP paper feed roller	Clean with isopropyl alcohol.
	Check if the following pulleys is deformed. DP forwarding pulley DP paper feed roller	Check visually and replace any deformed (see page 1-5-26).
(9)	Original is not correctly set.	Set the original correctly.
Multiple sheets of orig- inal are fed.	Check if the DP separation pulley is worn.	Replace the DP separation pulley if it is worn (see page 1-5-26).
(10) Originals jam.	Originals being used do not conform with the specifications.	Use only originals conforming to the specifications.
	Check if the surfaces of the following pul- leys are dirty with paper powder. DP forwarding pulley DP paper feed roller	Clean with isopropyl alcohol.
	Check if the contact between the regis- tration roller and registration pulley is cor- rect.	Check visually and remedy if necessary.
	Check if the contact between the convey- ing roller and conveying pulley is correct.	Check visually and remedy if necessary.
	Check if the contact between the eject roller and eject pulley is correct.	Check visually and remedy if necessary.
	Check if the contact between the switch- back roller and switchback pulley is cor- rect.	Check visually and remedy if necessary.

# 1-4-6 Send error code

This section describes the scanning errors and descriptions, preventive actions, as well as corrective actions. Error codes not described here could fall within software errors.

If such an error is encountered, turn power off then on, and advise the service representative.

### (1) Scan to SMB error codes

Code	Contents	Check procedures/corrective measures
1101	Host destined does not exist on the net- work.	<ol> <li>Confirm the destined host.</li> <li>Confirm thedevice's network parameters.</li> <li>Confirm the parameters of the network to which the device is connected are correct.</li> </ol>
1102	Login to the host has failed.	<ol> <li>Confirm user name and password.</li> <li>Confirm the parameters of the network to which the device is connected are correct.</li> <li>Check the host if the folder is properly shared.</li> </ol>
1103	Destined host, folder, and/or file names are invalid.	<ol> <li>Check illegal characters are not contained within these names.</li> <li>Check the name of the folder and files conform with the naming syntax.</li> <li>Confirm destined host and folder.</li> </ol>
1105	SMB protocol is not enabled.	1. Confirm device's SMB protocols.
2101	Login to the host has failed.	<ol> <li>Confirm the destined host.</li> <li>Confirm that the LAN cable is properly connected to the device.</li> <li>Check the SMB port number.</li> <li>Confirm the device's network parameters.</li> <li>Confirm the parameters of the network to which the device is connected are correct.</li> </ol>
2201	Writing scanned data has failed.	<ol> <li>Check the file name to save the scanned data.</li> <li>Confirm the device's network parameters.</li> <li>Confirm the parameters of the network to which the device is connected are correct.</li> </ol>

# (2) Scan to FTP error codes

Code	Contents	Check procedures/corrective measures
1101	FTP server does not exist on the net- work.	<ol> <li>Check the FTP server name.</li> <li>Confirm device's network parameters.</li> <li>Confirm the parameters of the network to which the device is connected are correct.</li> </ol>
1102	Login to the FTP server has failed.	<ol> <li>Confirm user name and password.</li> <li>Check the FTP server name.</li> </ol>
1103	Destined folder is invalid.	<ol> <li>Check that the illegal characters are not contained within these names.</li> <li>Check the FTP server name.</li> </ol>
1105	FTP protocol is not enabled.	1. Confirm device's FTP protocols.
1131	Initializing TLS has failed.	1. Confirm device's security parameters.
1132	TLS negotiation has failed.	<ol> <li>Confirm device's security parameters.</li> <li>Check the FTP server name.</li> </ol>
2101	Access to the FTP server has failed.	<ol> <li>Check the FTP server name.</li> <li>Confirm that the LAN cable is properly connected to the device.</li> <li>Check the FTP port number.</li> <li>Confirm device's network parameters.</li> <li>Confirm the network parameters the device is con- nected.</li> <li>Check the FTP server name.</li> </ol>
2102	Access to the FTP server has failed. (Connection timeout)	<ol> <li>Check the FTP server name.</li> <li>Check the FTP port number.</li> <li>Confirm device's network parameters.</li> <li>Confirm the network parameters the device is connected.</li> <li>Check the FTP server name.</li> </ol>
2201	Connection with the FTP server has failed.	<ol> <li>Confirm device's network parameters.</li> <li>Confirm the network parameters the device is connected.</li> <li>Confirm destined folder.</li> <li>Check the FTP server name.</li> </ol>
2202	Connection with the FTP server has failed. (Timeout)	<ol> <li>Confirm device's network parameters.</li> <li>Confirm the network parameters the device is connected.</li> </ol>
2231	Connection with the FTP server has failed. (FTPS communication)	<ol> <li>Confirm device's network parameters.</li> <li>Confirm the network parameters the device is connected.</li> </ol>
3101	FTP server responded with an error.	<ol> <li>Confirm device's network parameters.</li> <li>Confirm the network parameters the device is connected.</li> <li>Check the FTP server.</li> </ol>

## (3) Scan to E-mail error codes

Code	Contents	Check procedures/corrective measures
1101	SMTP/POP3 server does not exist on the network.	<ol> <li>Check the SMTP/POP3 server name.</li> <li>Confirm device's network parameters.</li> <li>Confirm the parameters of the network to which the device is connected are correct.</li> </ol>
1102	Login to the SMTP/POP3 server has failed.	<ol> <li>Confirm user name and password.</li> <li>Check the SMTP/POP3 server.</li> </ol>
1104	The domain the destined address belongs is prohibited by scanning restriction.	1. Confirm device's SMTP parameters.
1105	SMTP protocol is not enabled.	1. Confirm device's SMTP protocols.
1106	Sender's address is not specified.	1. Confirm device's SMTP protocols.
2101	Connection to the SMTP/POP3 server has failed.	<ol> <li>Check the SMTP/POP3 server name.</li> <li>Confirm that the LAN cable is properly connected to the device.</li> <li>Check the SMTP/POP3 port number.</li> <li>Confirm device's network parameters.</li> <li>Confirm the network parameters the device is con- nected.</li> <li>Check the SMTP/POP3 server.</li> </ol>
2102	Connection to the SMTP/POP3 server has failed. (Connection timeout)	<ol> <li>Check the SMTP/POP3 server name.</li> <li>Check the SMTP/POP3 port number.</li> <li>Confirm device's network parameters.</li> <li>Confirm the network parameters the device is connected.</li> <li>Check the SMTP/POP3 server.</li> </ol>
2201	Connection to the SMTP/POP3 server has failed.	<ol> <li>Confirm device's network parameters.</li> <li>Confirm the network parameters the device is connected.</li> </ol>
2202	Connection to the SMTP/POP3 server has failed. (Timeout)	<ol> <li>Confirm device's network parameters.</li> <li>Confirm the network parameters the device is connected.</li> </ol>
2204	The size of scanning exceeded its limit.	1. Confirm device's network parameters.
3101	SMTP/POP3 server responded with an error.	<ol> <li>Confirm device's network parameters.</li> <li>Confirm the network parameters the device is connected.</li> <li>Check the SMTP/POP3 server.</li> </ol>
3201	No SMTP authentication is found.	<ol> <li>Check the SMTP server.</li> <li>The device supports SMTP authentication services including CRAM-MD5, DIGEST-MD5, PLAIN and LOGIN.</li> </ol>

# **1-5-1** Precautions for assembly and disassembly

### (1) Precautions

Before starting disassembly, press the Power key on the operation panel to off. Make sure that the Power lamp is off before turning off the main power switch. Unplug the power cable from the wall outlet. When the fax kit is installed, be sure to disconnect the modular code before starting disassembly. When handling PWBs (printed wiring boards), do not touch parts with bare hands.

The PWBs are susceptible to static charge.

Do not touch any PWB containing ICs with bare hands or any object prone to static charge.

When removing the hook of the connector, be sure to release the hook.

Take care not to get the cables caught.

To reassemble the parts, use the original screws. If the types and the sizes of screws are not known, refer to the PARTS LIST.

## (2) Drum unit

Note the following when handling or storing the drum unit.

When removing the drum unit, never expose the drum surface to strong direct light.

Keep the drum unit at an ambient temperature between -20°C/-4°F and 40°C/104°F and at a relative humidity not higher than 85% RH. Avoid abrupt changes in temperature and humidity.

Avoid exposure to any substance which is harmful to or may affect the quality of the drum unit.

Do not touch the drum surface with any object. Should it be touched by hands or stained with oil, clean it.

## (3) Toner

Store the toner containers in a cool, dark place. Avoid exposing the toner containers to direct light and high humidity.

### (4) How to tell a genuine Kyocera Mita toner container

As a means of brand protection, the Kyocera Mita toner container utilizes an optical security technology to enable visual validation. A validation viewer is required to accomplish this.

Hold the validation viewer over the left side part of the brand protection seal on the toner container. Through each window of the validation viewer, the left side part of the seal should be seen as follows:

A black-colored band when seen through the left side window (

A shiny or gold-colored band when seen through the right side window ( ~~ )

The above will reveal that the toner container is a genuine Kyocera Mita branded toner container, otherwise, it is a counterfeit.

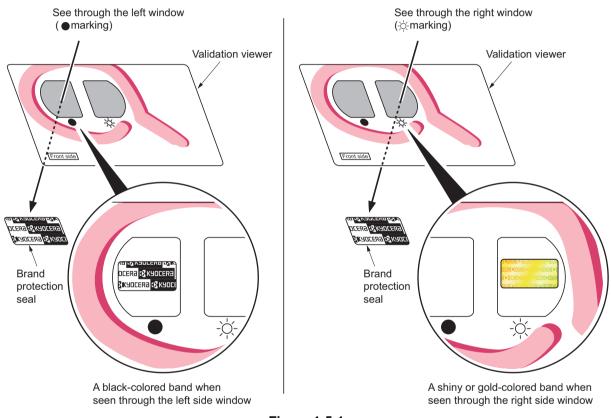


Figure 1-5-1

The brand protection seal has an incision as shown below to prohibit reuse.

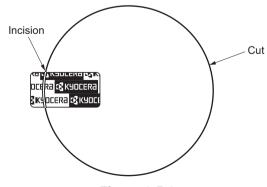


Figure 1-5-2

## 1-5-2 Outer covers

## (1) Detaching and refitting the front cover

### Procedure

- 1. Remove the cassette. (See page 1-5-10)
- 2. Open the front cover.

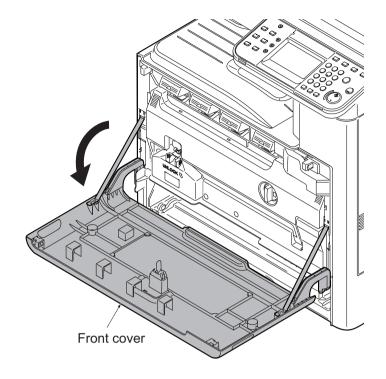


Figure 1-5-3

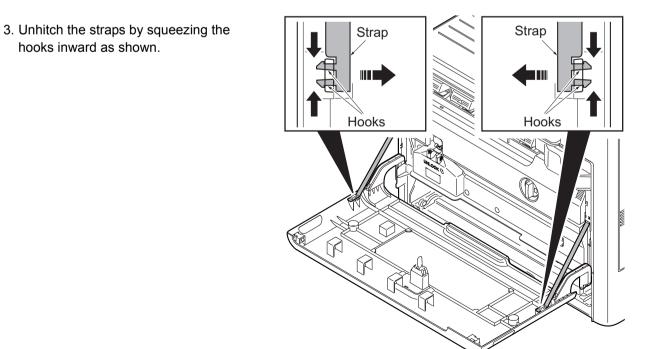


Figure 1-5-4

- 4. Remove two fulcrum axes of the front cover.
- 5. Remove the front cover.

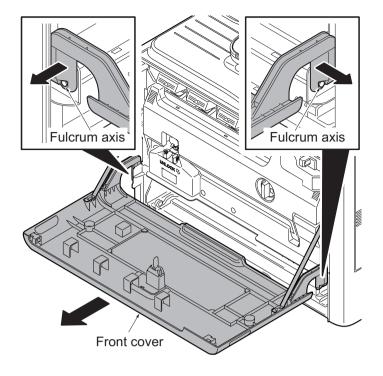
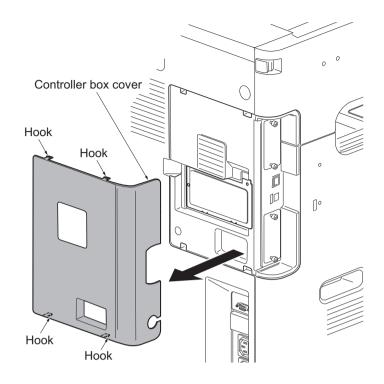


Figure 1-5-5

### (2) Detaching and refitting the rear cover

#### Procedure

- 1. Remove the power cord. If the document feeder is installed, remove its interface connector.
- 2. Release four hooks and then remove the controller box cover.





- Remove two screws of the DP interface connector and then remove the DP interface connector. (See page 1-5-25)
- 4. Remove six screws.
- 5. Pull the rear cover upwards and then release three hooks.
- 6. Remove the rear cover.

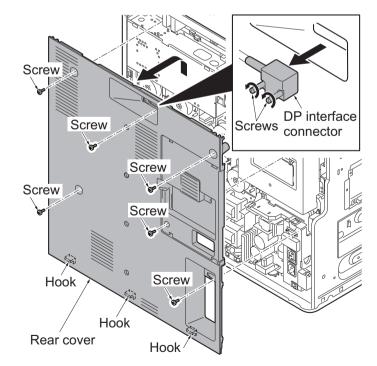


Figure 1-5-7

### (3) Detaching and refitting the inner tray

#### Procedure

1. Release the lock lever and then remove the job separator tray.

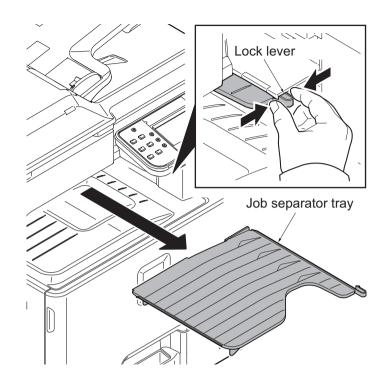


Figure 1-5-8

- 2. Remove the rear cover. (See page 1-5-5)
- 3. Remove the cassette. (See page 1-5-10)
- 4. Open the front cover.(See page 1-5-3)
- 5. Remove two screws.
- 6. Release three hooks A.
- 7. Pull the left lower cover upwards and then release ten hooks B.
- 8. Remove the left lower cover.

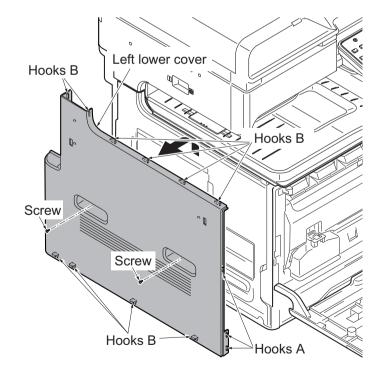


Figure 1-5-9

- 9. Release the hook of the front upper cover.
- 10. Tilt the front upper cover forward.

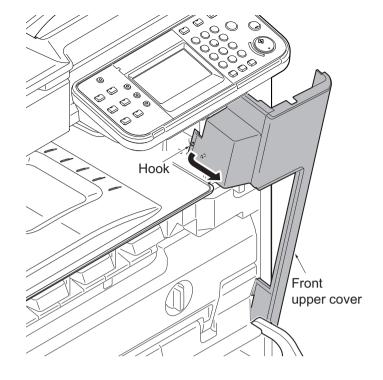


Figure 1-5-10

11. Remove the inner tray.

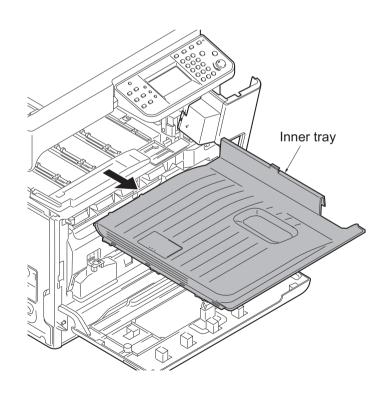


Figure 1-5-11

### (4) Detaching and refitting the eject rear cover

#### Procedure

1. Release two hooks by using a flat screwdriver and then remove the tray left cover.

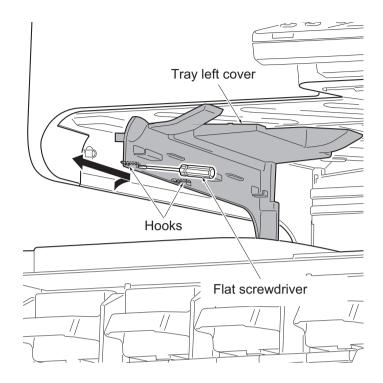


Figure 1-5-12

Left upper cover When the second sec

Figure 1-5-13

**ATTENTION:** At the time of replace the left upper cover, confirm the position of the scaner lock lever .

2. Pull the left upper cover downwards and then release two hooks A.

3. Pull the left upper cover upwards and

then release three hooks B. 4. Remove the left upper cover. 5. Remove the eject rear cover.

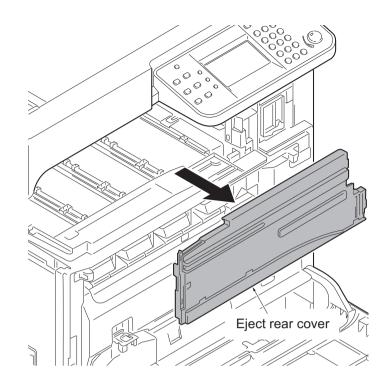


Figure 1-5-14

# 1-5-3 Paper feed section

## (1) Detaching and refitting the primary paper feed unit

#### Procedure

1. Remove the cassette.

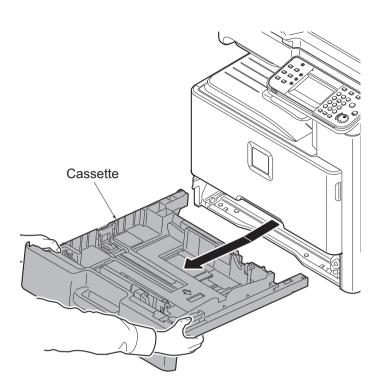


Figure 1-5-15

- 2. Release the feed lever (yellow) and then remove the primary paper feed unit.
- 3. Check or replace the primary paper feed unit and refit all the removed parts.

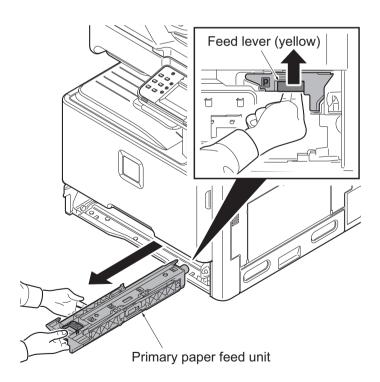


Figure 1-5-16

## (2) Detaching and refitting the MP paper feed roller and MP separation pad

#### Procedure

1. Open the right cover 1.

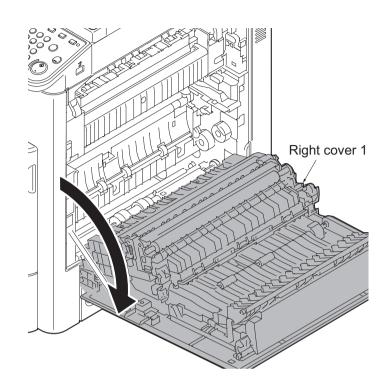


Figure 1-5-17

 Image: Constrained state stat



2. While squeezing the holder inward, remove the MP paper feed roller.

- 3. Tilt the MP separation pad forward and then remove it upwards.
- 4. Check or replace the MP paper feed roller and MP separation pad and refit all the removed parts.

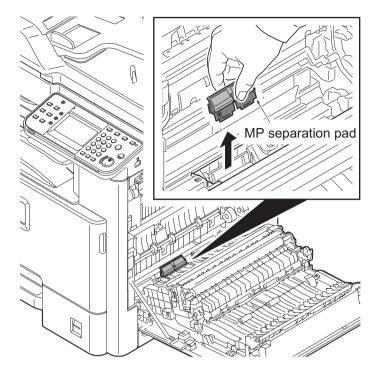


Figure 1-5-19

### (3) Detaching and refitting the registration roller

#### Procedure

- 1. Open the right cover 1 (See page 1-5-11).
- 2. Remove the transfer roller unit. (See page 1-5-17)
- 3. Remove two springs at the front and back of the registration roller right.
- 4. Remove the cap and gear.
- 5. Slide and remove the registration roller right.
- 6. Check or replace the registration roller right and refit all the removed parts.

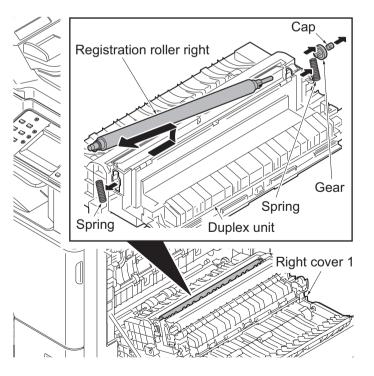


Figure 1-5-20

## (4) Detaching and refitting the registration cleaner

#### Procedure

- 1. Open the front cover. (See page 1-5-3)
- 2. Open the duct cover. (See page 1-5-15)
- 3. Set the cleaner lever (yellow) up and draw the registration cleaner frontward.
- 4. Check or replace the registration cleaner and refit all the removed parts.

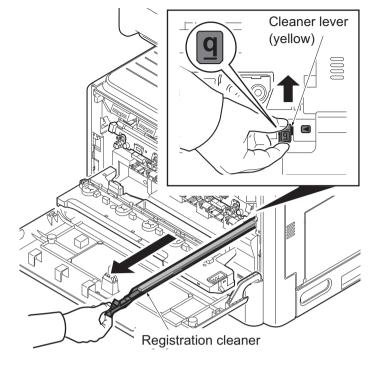


Figure 1-5-21

## (5) Detaching and refitting the MP tray

- 1. Open the MP tray.
- 2. Release two fulcrums of the MP tray by using a flat screwdriver.
- 3. Pull two straps upwards to remove.
- 4. Remove the MP tray.

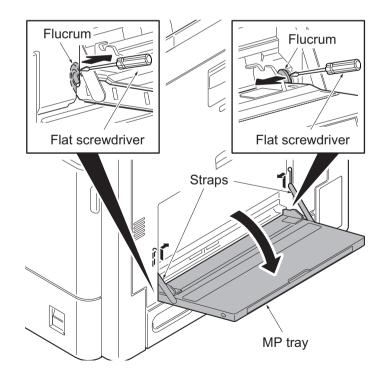


Figure 1-5-22

# 1-5-4 Developing section

# (1) Detaching and refitting the developing unit

#### Procedure

- 1. Open the front cover. (See page 1-5-3)
- 2. Release the lock lever and then remove the waste toner box.

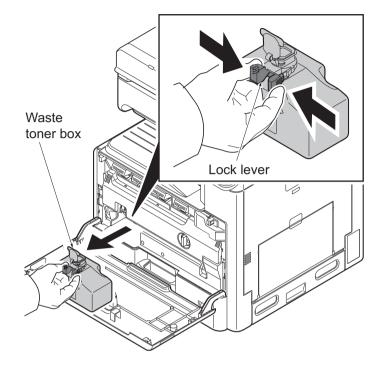


Figure 1-5-23

3. Turn the lock lever (yellow) to the right and then knock down the duct cover forwards.

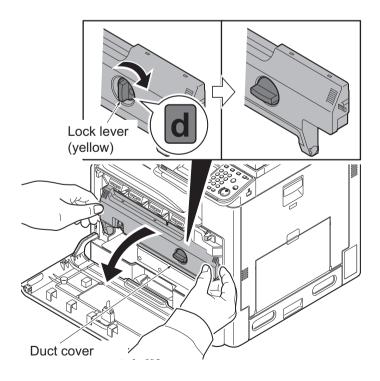


Figure 1-5-24

4. Lift the lever and turn the duct holder upwards.

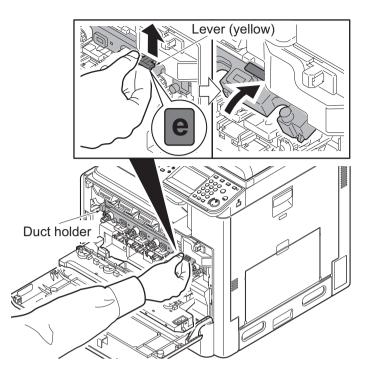


Figure 1-5-25

5. Push the lock lever (yellow) of the development unit upwards and then remove the developer unit.
6. Check or replace the developer unit and refit all the removed parts.



# 1-5-5 Drum section

# (1) Detaching and refitting the drum unit

#### Procedure

- 1. Open the front cover. (See page 1-5-3)
- 2. Release the waste toner box. (See page 1-5-14)
- Turn the lock lever to the right and then knock down the duct cover forwards. (See page 1-5-15)
- 4. Lift the lever and turn the duct holder upwards.(See page1-5-11)
- 5. Push the lock lever (yellow) of the drum unit upwards and then remove the drum unit.
- 6. Check or replace the drum unit and refit all the removed parts.

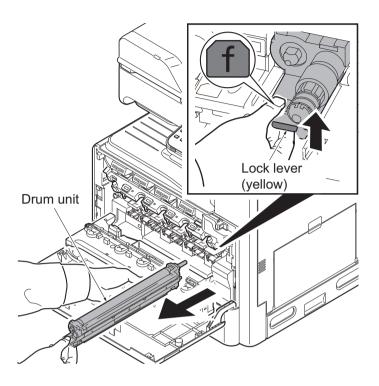
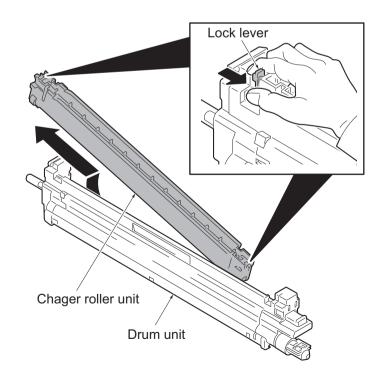


Figure 1-5-27

# (2) Detaching and refitting the chager roller unit

- 1. Remove the drum unit. (See page 1-5-16)
- 2. Release two lock levers and then remove the chager roller unit.
- 3. Check or replace the chager roller unit and refit all the removed parts.



# 1-5-6 Transfer/separation section

## (1) Detaching and refitting the intermediate transfer unit

#### Procedure

- 1. Open the right cover 1. (See page 1-5-11)
- 2. Pull the intermediate transfer unit forwards by holding two knobs A(yellow)
- 3. .Change to the knob B from the knob A and then remove the intermediate transfer unit.
- 4. Check or replace the intermediate transfer unit and refit all the removed parts.

**CAUTION:** When refitting the transfer roller unit, insert it in place until it clicks in.

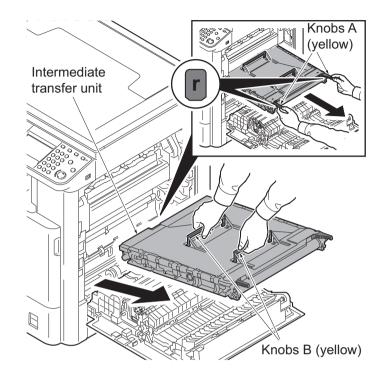


Figure 1-5-29

# (2) Detaching and refitting the secondary transfer roller unit

#### Procedure

- 1. Open the right cover 1. (See page 1-5-11)
- 2. Release two lock levers (yellow) and then remove the secondary transfer roller unit.
- 3. Check or replace the secondary transfer roller unit and refit all the removed parts.

**ATTENTION:**When refitting the secondary transfer roller unit, insert it in place until it clicks in.

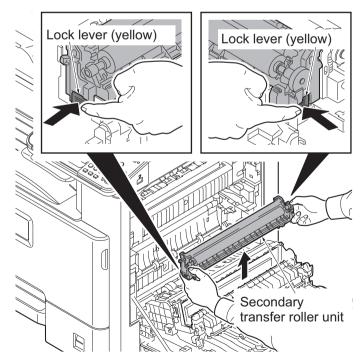


Figure 1-5-30

# 1-5-7 Fuser section

# (1) Detaching and refitting the fuser unit

#### Procedure

- 1. Open the right cover 1. (See page 1-5-11)
- 2. Release two mount levers (yellow) and then pull the fuser unit forwards

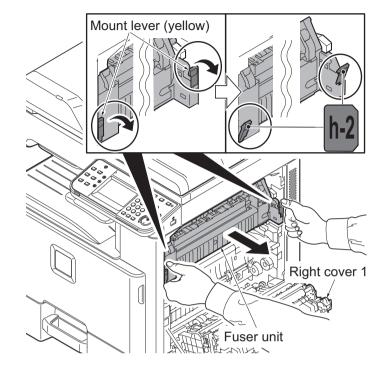


Figure 1-5-31

- 3. Grip two knobs (yellow) of the fuser unit.
- 4. Lift the fuser unit upwards and then remove the fuser unit.
- 5. Check or replace the fuser unit and refit all the removed parts.

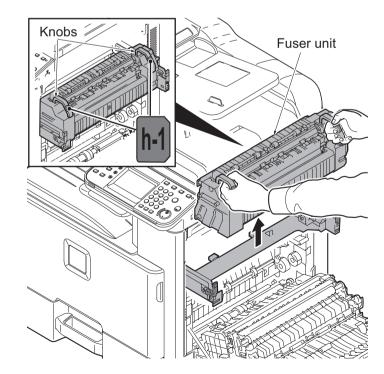


Figure 1-5-32

# 1-5-8 Drive section

## (1) Detaching and refitting the conveying motor

#### Procedure

- 1. Remove the rear cover. (See page 1-5-5)
- 2. Remove the connector from the conveying motor PWB.
- 3. Remove three screws and then remove the conveying motor.
- 4. Check or replace the conveying motor and refit all the removed parts.

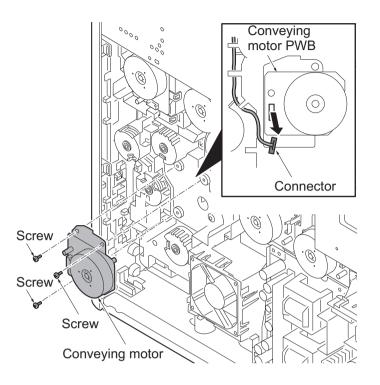


Figure 1-5-33

## (2) Detaching and refitting the drive unit

- 1. Remove the rear cover. (See page 1-5-5)
- 2. Remove three connectors and then release the waires from the hooks.
- 3. Remove four screws and then remove the drive unit.
- 4. Check or replace the drive unit and refit all the removed parts.

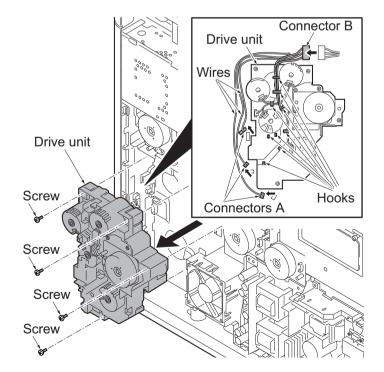
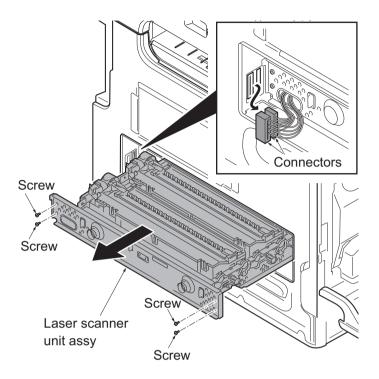


Figure 1-5-34

# 1-5-9 Optical section

## (1) Detaching and refitting the laser scanner unit

- 1. Remove the cassette. (See page 1-5-10)
- 2. Remove the rear cover and left lower cover.(See page 1-5-5,1-5-6)
- 3. Remove two connectors.
- 4. Remove four screws and then remove the laser scanner unit assy by pulling it forwards.





- 5. Release the clamp and then remove the FFC from the connector.
- 6. Remove two screws.
- 7. Remove the pin and spring and then remove the unit holder Y.
- Lift the laser scanner unit Y upwards and then remove the laser scanner unit Y (LSU-Y).
- 9. Similarly, remove the laser scanner unit C/M/K(LSU-C/M/K).
- 10. Check or replace the laser scanner unit and refit all the removed parts.

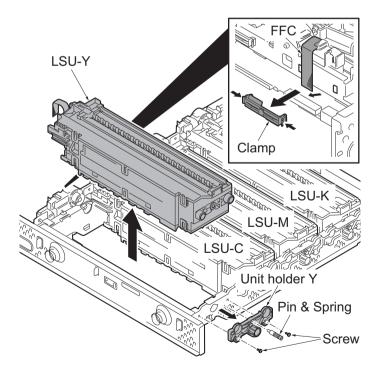


Figure 1-5-36

## (2) Detaching and refitting the image scanner unit

#### Procedure

- 1. Remove the DP or original cover. (See page 1-5-25)
- 2. Remove two screws and then remove the scanner right cover.

**ATTENTION:** To reinstall the scanner right cover, position it close to the platen.

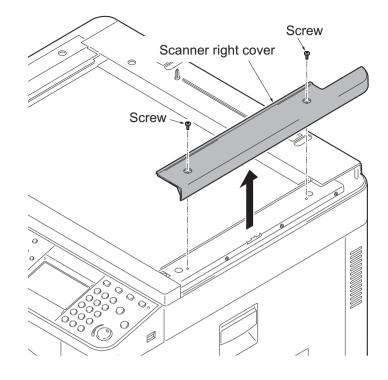


Figure 1-5-37

3. Remove the platen.

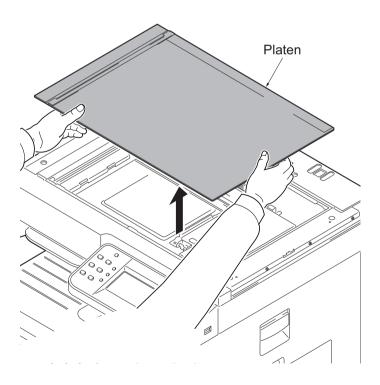


Figure 1-5-38

4. Remove four screws and then remove the scanner cover.

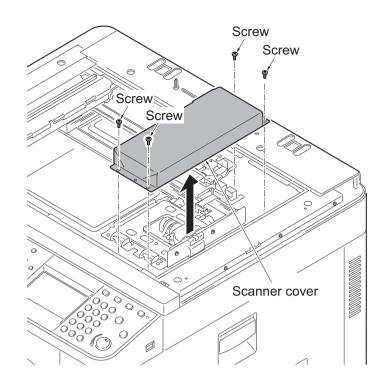


Figure 1-5-39

- 5. Remove the FFC from the connector.
- 6. Remove four screws and then remove the image scanner unit.
- 7. Check or replace the image scanner unit and refit all the removed parts.

**CAUTION:** Fix the image scanner unit by matching to the scale of a former position.

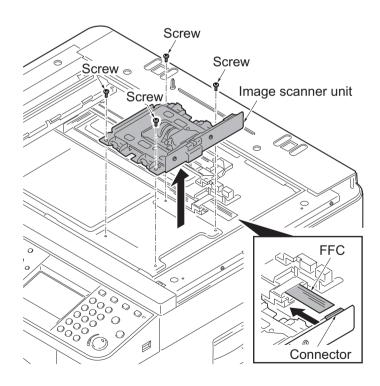


Figure 1-5-40

# (3) Detaching and refitting the LED unit

#### Procedure

- 1. Remove the DP or original cover. (See page 1-5-25)
- 2. Remove the sanner right cover and platen.(See page 1-5-21)
- 3. Remove the ISU front cover.

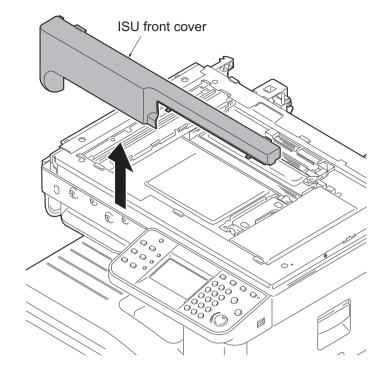


Figure 1-5-41

4. Remove two screws and then remove the ISU rear cover.

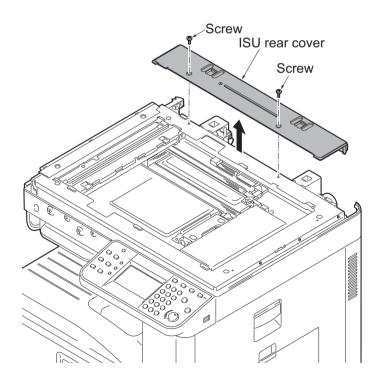


Figure 1-5-42

- 5. Move the exposure unit to the cutting lack part.
- 6. Peel off the sheet.
- 7. Release the hook and then remove the FFC cover.

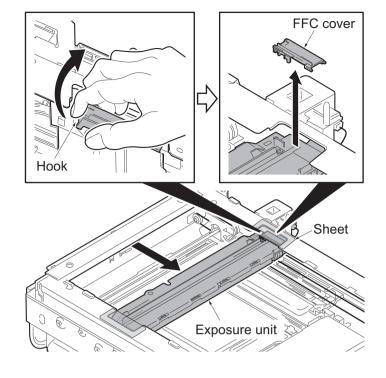


Figure 1-5-43

- 8. Remove the FFC from the connector.
- 9. Remove two screws and then remove the LED unit.
- 10. Check or replace the LED unit and refit all the removed parts.

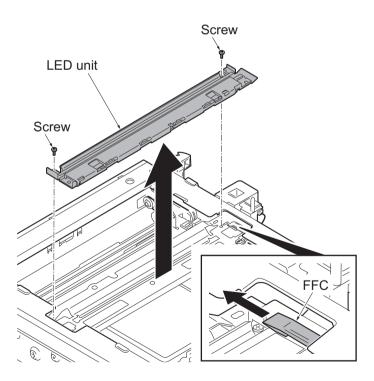


Figure 1-5-44

# 1-5-10 Document processor

# (1) Detaching and refitting the document processor

#### Procedure

- 1. Remove the restriction parts.
- 2. Open the document processor on vertically.

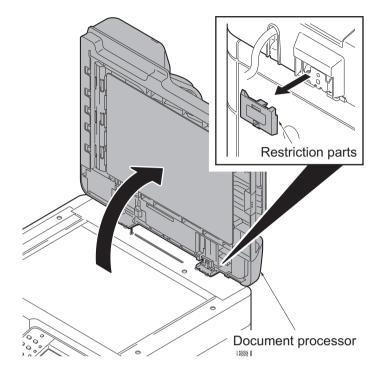


Figure 1-5-45

3. Remove two screws and then remove the DP interface connector.
4. Pull the document processor upwards out.

Figure 1-5-46

# (2) Detaching and refitting the DP paper feed roller and DP separation pulley

#### Procedure

1. Open the DP top cover.

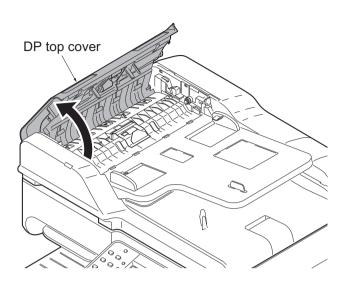


Figure 1-5-47

- 2. Pull the DP paper feed lever (yellow) down and then open it.
- 3. Knock the DP paper feed roller down forward.

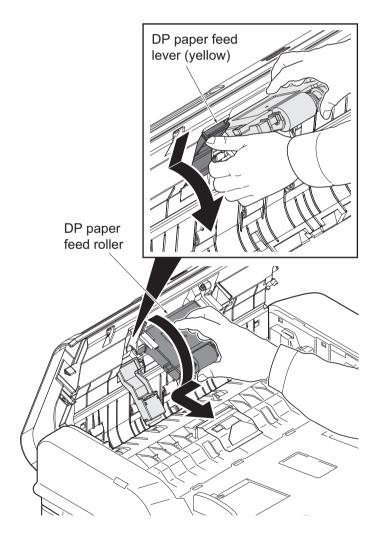


Figure 1-5-48

4. Release the hook and then remove DP separation pulley cover.

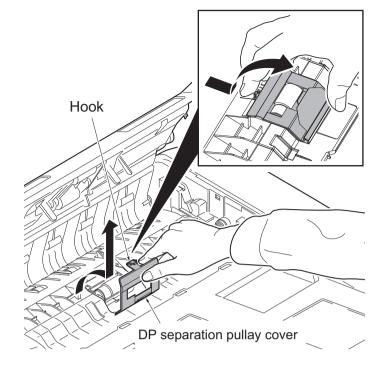


Figure 1-5-49

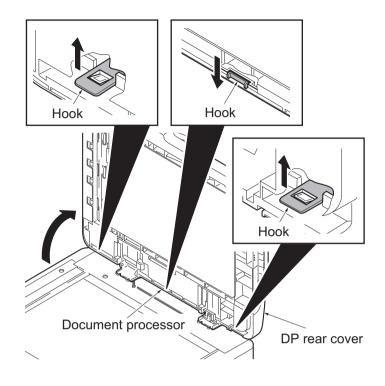
5. Raise the DP separation pulley and remove it by pulling upward.
6. Check or replace the DP paper feed roller and DP separation pulley and refit all the removed parts.



# (3) Detaching and refitting the DP main PWB

#### Procedure

- 1. Open the document processor.
- 2. Release three hooks of the DP rear cover.





3. Release two hooks of the DP rear cover and then remove it.



/

- 4. Remove all connectors from DP main PWB.
- 5. Remove five clamps and then remove the waires from holder.
- 6. Remove two screws and then remove the holder.

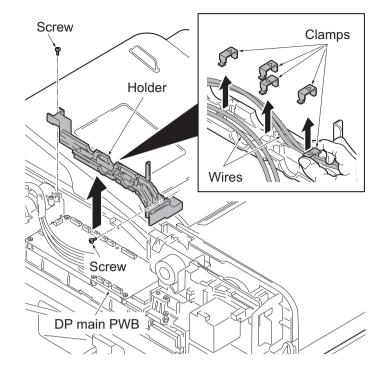


Figure 1-5-53

- 7. Remove six screws and then remove the DP main PWB.
- 8. Check or replace the DP main PWB and refit all the removed parts.

**CAUTION:** When replacing the DP main PWB, remove the EEPROM from the DP main PWB that has been removed and then reattach it to the new DP main PWB.

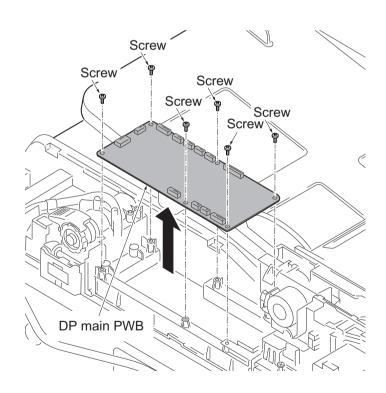


Figure 1-5-54

# 1-5-11 PWBs

# (1) Detaching and refitting the main PWB

#### Procedure

- 1. Remove the rear cover. (See page 1-5-5)
- 2. Remove the left lower cover. (See page 1-5-6)
- 3. Remove the connector.
- 4. Remove the wire from the clamp.
- 5. Remove ten screws and then remove the controller box.

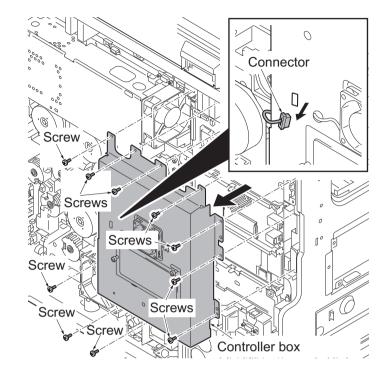


Figure 1-5-55

- 6. Remove all connectors and FFCs for the main PWB.
- 7. Remove eight screws and then remove the main PWB.
- 8. Check or replace the main PWB and refit all the removed parts.

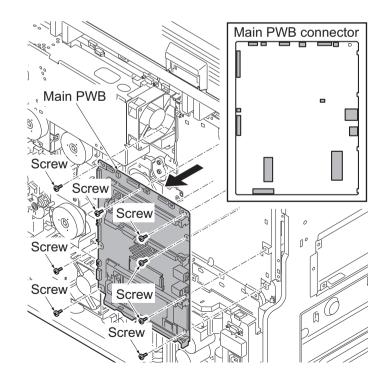


Figure 1-5-56

# (2) Detaching and refitting the engine PWB

#### Procedure

- 1. Remove the rear cover. (See page 1-5-5)
- 2. Remove the main PWB. (See page 1-5-5)
- 3. Remove fourteen screws and then remove the mount board for main PWB.

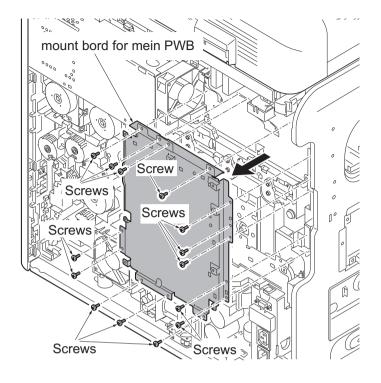


Figure 1-5-57

- 4. Remove all conectors from the engine PWB.
- 5. Remove four screws and then remove the engin PWB.
- 6. Check or replace the engine PWB and refit all the removed parts.

**CAUTION:** When replacing the engine PWB, remove the EEPROM (U15) from the engine PWB that has been removed and then reattach it to the new engine PWB.

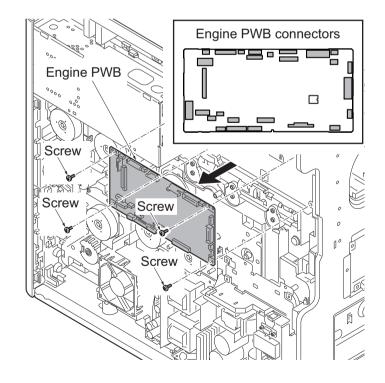


Figure 1-5-58

## (3) Detaching and refitting the power source PWB

- 1. Remove the rear cover and inner tray.(See page 1-5-5,1-5-6)
- 2. Remove the power source fan motor.(See page 1-5-20)
- 3. Remove all connecters from the power source PWB.
- 4. Remove four screws and then remove the power source PWB.
- 5. Check or replace the power source PWB and refit all the removed parts.

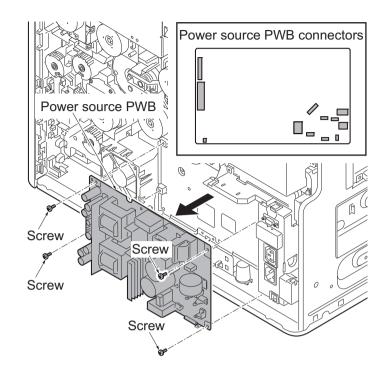
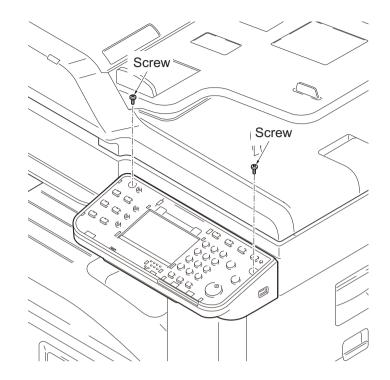


Figure 1-5-59

## (4) Detaching and refitting the operation panel PWB main

- 1. Remove the language sheets. (See page 1-5-36)
- 2. Remove two screws.





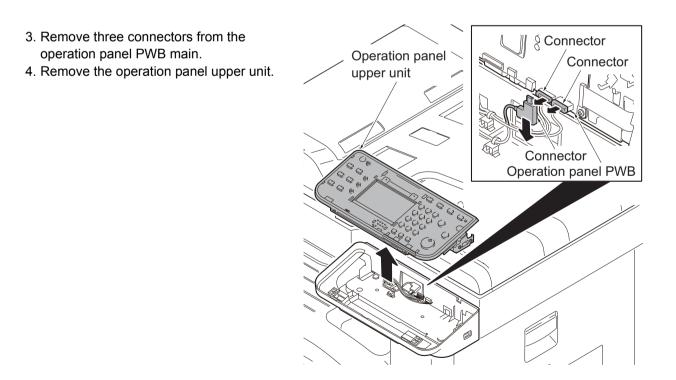


Figure 1-5-61

- 5. Remove four FFCs from the operatioon panel PWB main.
- 6. Remove four screws and then remove the operation panel PWB main.
- 7. Check or replace the operation panel PWB main and refit all the removed parts.

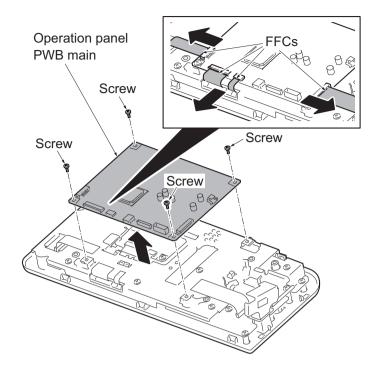


Figure 1-5-62

## (5) Detaching and refitting the IH PWB

#### Procedure

- 1. Remove the scanner right cover. (See page 1-5-5)
- 2. Remove the right upper cover.
- 3. Remove the right rear cover.

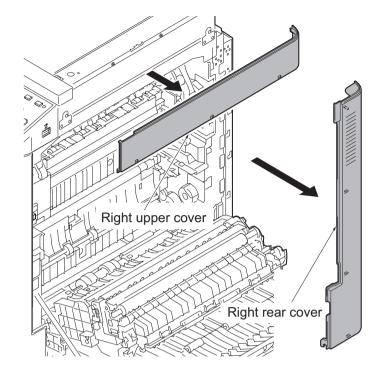


Figure 1-5-63

 $\{$ 

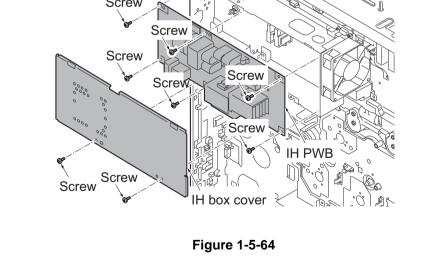
l

0

Screw

**IH PWB connectors** 

- 4. Remove two screws and then remove the IH box cover.
- 5. Remove all connectors from the IH PWB.
- 6. Remove six screws and then remove the IH PWB.
- 7. Check or replace the IH PWB and refit all the removed parts.



# 1-5-12 Others

# (1) Detaching and refitting the language sheet

- 1. Remove the upper cover by using a pen.
- 2. Remove the LCD cover.
- 3. Remove two operation panel covers
- 4. Remove two language sheets.
- 5. Check or replace the language sheet and refit all the removed parts.

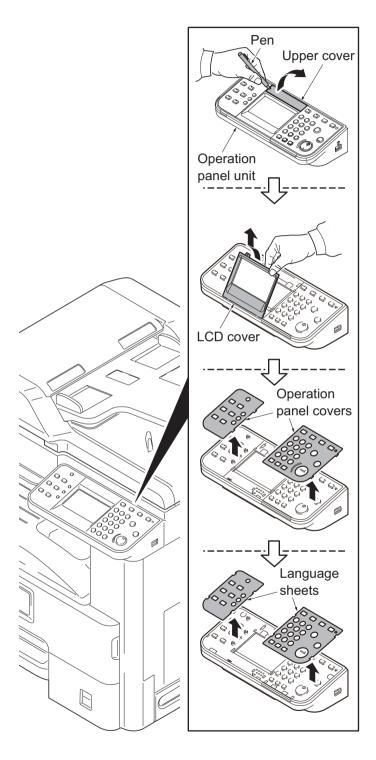


Figure 1-5-65

# (2) Detaching and refitting the conveying unit

#### Procedure

- 1. Remove the MP tray.(See page 1-5-13)
- 2. Remove the right cover 1. (See page 1-5-11)

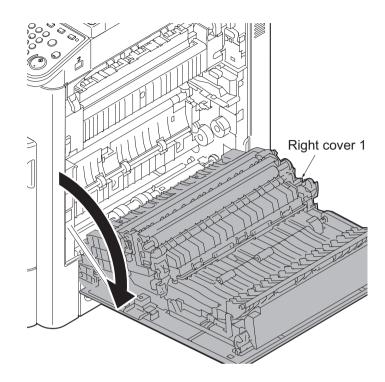


Figure 1-5-66

3. Remove two screws and then remove two straps.

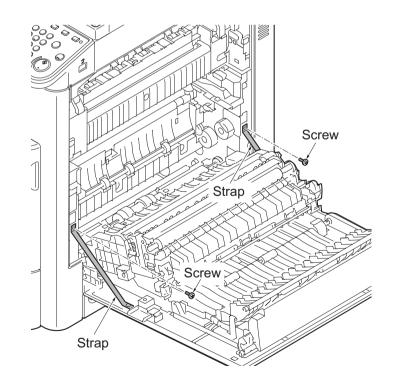


Figure 1-5-67

- 4. Remove the wire cover 2.
- 5. Rotate the wire cover 1.
- 6. Remove the connector.
- 7. Rotate the fulcrum axis and slide it forward.
- 8. Pull the right cover 1 backward and then remove it.

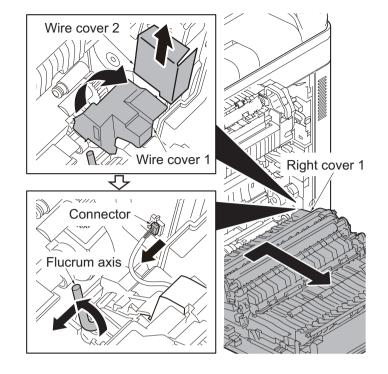
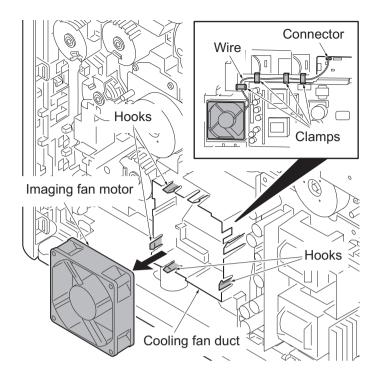


Figure 1-5-68

# (3) Detaching and refitting the imaging fan motor

#### Procedure

- 1. Remove the rear cover. (See page 1-5-5)
- 2. Remove four clamps and then remove the wires and the connector.
- 3. Unhook four hooks and then remove the imaging fan motor.





## (4) Direction of installing the principal fan motors

When detaching or refitting the fan moter, be careful of the airflow direction (intake or exhaust).

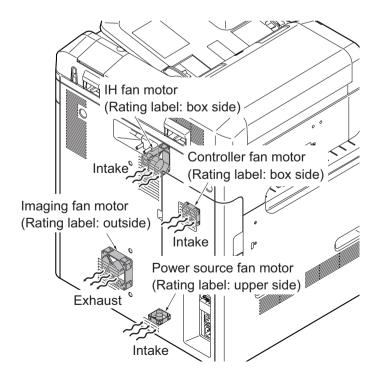


Figure 1-5-70

# 1-6-1 Upgrading the firmware

Follow the procedure to upgrade the firmware below.

- \* Main PWB (CTRL)
- \* DP main PWB (DP)
- \* PF main PWB (PF)
- \* DF main PWB (DF)
- \* Bridge PWB (AK)
- \* Engin fuser PWB (IH)
- \* Engine LSU PWB (LSU)
- \* Engine IO PWB (IO)

#### Preparation

\* Engine PWB (ENGN)

- \* FAX PWB (FAX)
- \* First color table (CLT1)
- \* Second color table (CLT2)
- \* Language data (OPT)
- \* Dictionary data (DIC)
- \* Operation panel PWB (PANL)

Extract the file that has the download firmware and store them in a USB Memory.

**NOTE:** To improve Firmware Upgrade speed, a separate SKIP file can be added to the USB Memory Stick with the Firmware Upgrade package. The Skip file will allow ONLY the Firmware that has been Upgraded to a New Version to load, skipping duplicate Firmware Levels.

#### Procedure

- Turn ON the main power switch and confirm if the screen shows "Ready to print" then, turn OFF the main power switch.
- 2. Insert USB memory that has the firmware in the USB memory slot.
- 3. Turn ON the main power switch.
- 4. About 50 seconds later, "Farmware Update" will be displayed (this shows that downloading is ready to start).
- 5. Select the firmware to upgrade by referring to the following codes:

 $\begin{array}{l} \mathsf{CTRL} \rightarrow \mathsf{DP} \rightarrow \mathsf{PF} \rightarrow \mathsf{DF} \rightarrow \mathsf{AK} \rightarrow \mathsf{IH} \\ \rightarrow \mathsf{LSU} \rightarrow \mathsf{IO} \rightarrow \mathsf{ENGN} \rightarrow \mathsf{FAX} \rightarrow \mathsf{CLT1} \\ \rightarrow \mathsf{CLT2} \rightarrow \mathsf{OPT} \rightarrow \mathsf{DIC} \rightarrow \mathsf{PANL} \end{array}$ 

# USB memory slot



Example:

Firmware Update CTRL xxx%

First line: Status of upgrading. Second line: Firm ware for upgrading. Third line: The progress of upgrading in %.

- 6. Confirm that upgrading is completed.
- 7. Confirm that the version of the firmware is correctly displayed.
- 8. Turn OFF the main power switch and remove the USB memory.

# 1-6-2 Remarks on PWB replacement

**NOTE:** When replacing the PWB, remove the EEPROM from the PWB and then reattach it to the new PWB.

# (1) Engine PWB

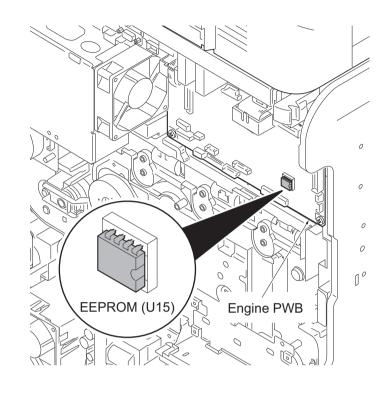


Figure 1-6-2

(2) DP main PWB

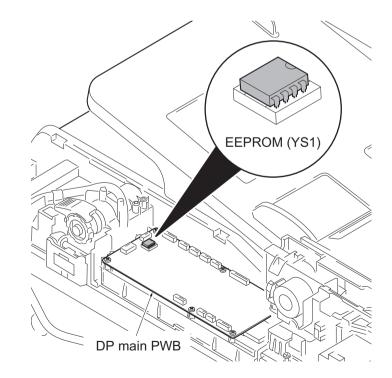


Figure 1-6-3

# 2-1-1 Paper feed/conveying section

The paper feed/conveying section consists of the paper feed unit that feeds paper from the cassette and the MP tray paper feed unit that feeds paper from the MP tray, and the paper conveying section that conveys the fed paper to the transfer/separation section.

## (1) Cassette paper feed section

The cassette can contain 500 sheets. The sheet from the cassette is pulled out by rotation of the pickup roller and sent to the paper conveying section by rotation of the paper feed roller. Also the retard roller prevents multiple feeding of paper.

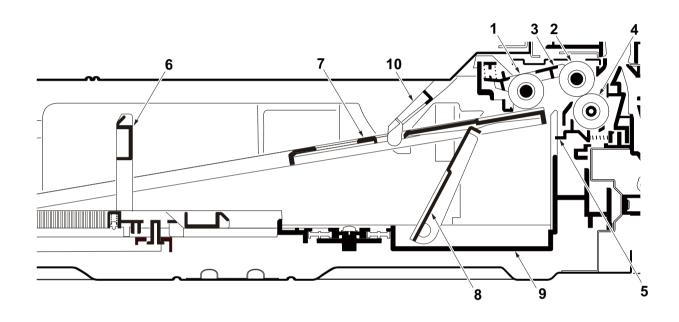


Figure 2-1-1 Cassette paper feed section

- 1. Pickup roller
- 2. Paper feed roller
- 3. Feed holder
- 4. Retard roller
- 5. Retard holder

- 6. Paper length guide
- 7. Bottom plate
- 8. Lift work plate
- 9. Cassette base
- 10. Actuator (paper sensor)

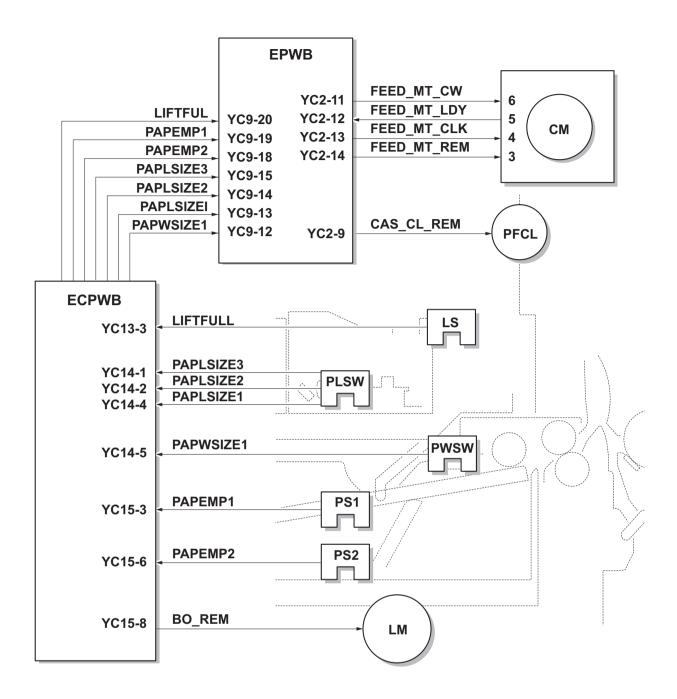


Figure 2-1-2 Cassette paper feed section block diagram

## (2) MP tray paper feed section

The MP tray can contain 100 sheets. Feeding from the MP tray is performed by the rotation of the MP paper feed roller. Also, function of the MP separation pad prevents paper from multiple feeding.

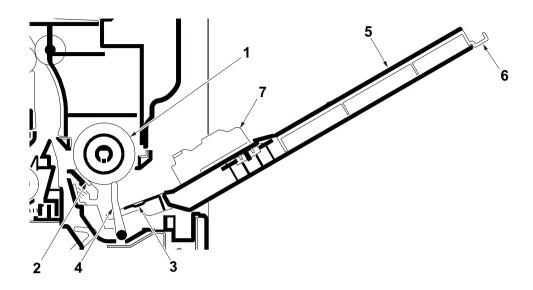


Figure 2-1-3 MP tray paper feed section

- 1. MP paper feed roller
- 2. MP separation pad
- 3. MP bottom plate
- 4. Actuator(MP paper feed sensor)
- 5. MP (multi purpose)tray
- 6. MP tray extension
- 7. MP paper width guide

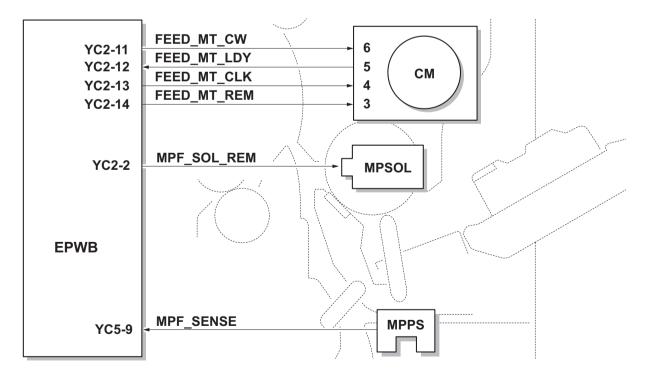


Figure 2-1-4 MP tray paper feed section block diagram

## (3) Conveying section

The conveying section conveys paper to the transfer/separation section as paper feeding from the cassette or MP tray, or as paper refeeding for duplex printing. Paper by feeding is conveyed by the paper feed roller to the position where the registration sensor (RS) is turned on, and then sent to the transfer/separation section by the right registration roller and left registration roller.

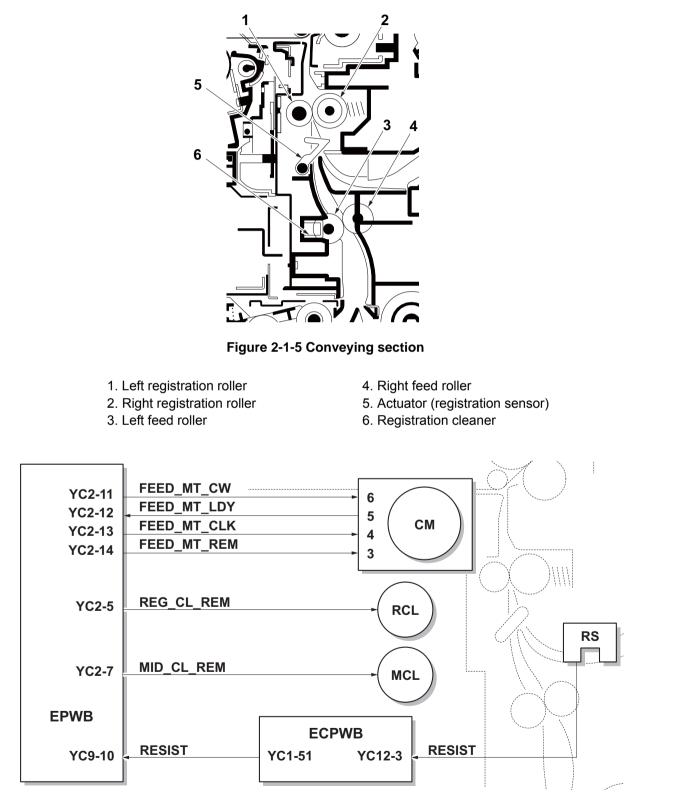


Figure 2-1-6 Paper conveying section block diagram

# 2-1-2 Drum section

The drum section consists of the drum, the charger roller unit, and the cleaning unit, and the drum surface is uniformly charged in preparation for formation of residual image by laser beam.

After transfer is complete, toner remaining on the drum surface is chipped off with the cleaning blade and is collected to the waste toner box with the sweep roller. The cleaning lamp (CL) consists of LEDs and removes residual charge on the drum before main charging.

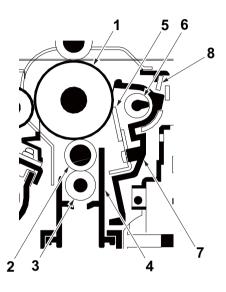


Figure 2-1-7 Drum section

- 1. Drum
- 2. Charger roller
- 3. Charger cleaning roller
- 4. Charger case
- 5. Cleaning blade

- 6. Sweep roller
- 7. Drum frame
- 8. Cleaning lamp (CL)

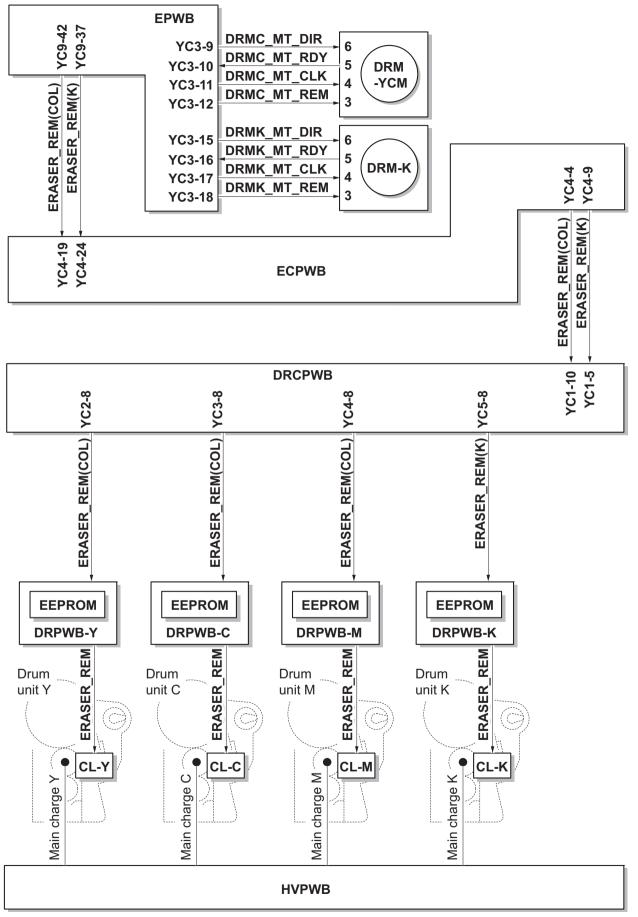


Figure 2-1-8 Drum section block diagram

# 2-1-3 Developing section

The developing unit consists of the sleeve roller that forms the magnetic brush, the magnet roller, the developing blade and the developing screws that agitate the toner. Also, the toner sensor (TS) checks whether or not toner remains in the developing unit.

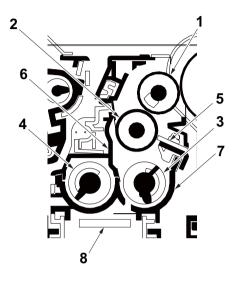
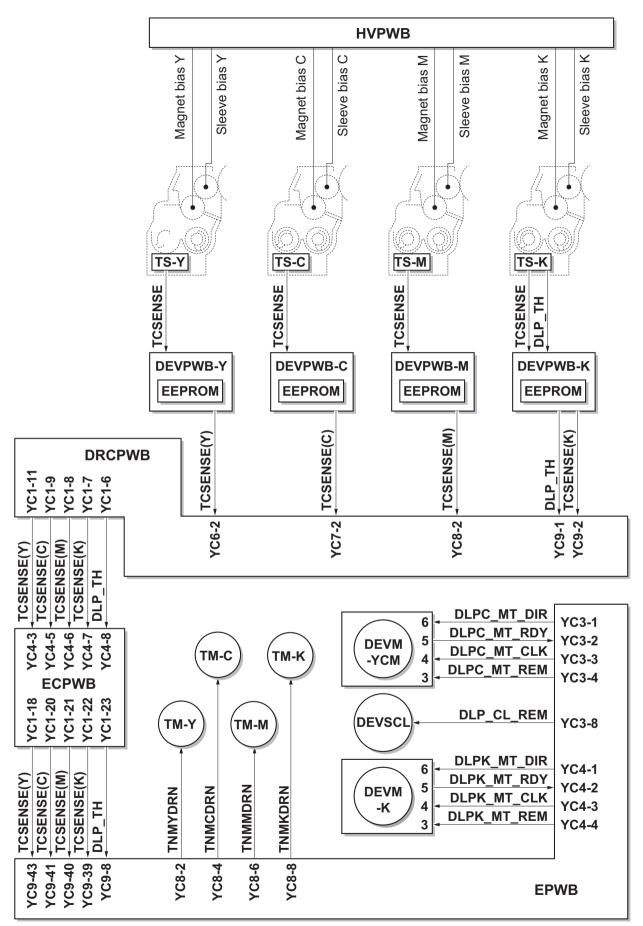
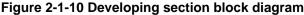


Figure 2-1-9 Developing section

- 1. Sleeve roller
- 2. Magnet roller
- 3. Developing screw A
- 4. Developing screw B
- 5. Developing blade
- 6. Developer case
- 7. Developer base
- 8. Toner sennsor (TS)





# 2-1-4 Optical section

The optical section consists of the image scanner section for scanning and the laser scanner section for printing.

### (1) Image scanner section

The original image is illuminated by the exposure lamp (EL) and scanned by the CCD image sensor in the CCD PWB (CCDPWB) via the three mirrors and ISU lens, the reflected light being converted to an electrical signal.

If a document processor is used, the image scanner unit stops at the position of the DP contact glass and scans sequentially one row of the image on the original in synchronization with the moving timing of the original in the sub scan direction by driving the DP.

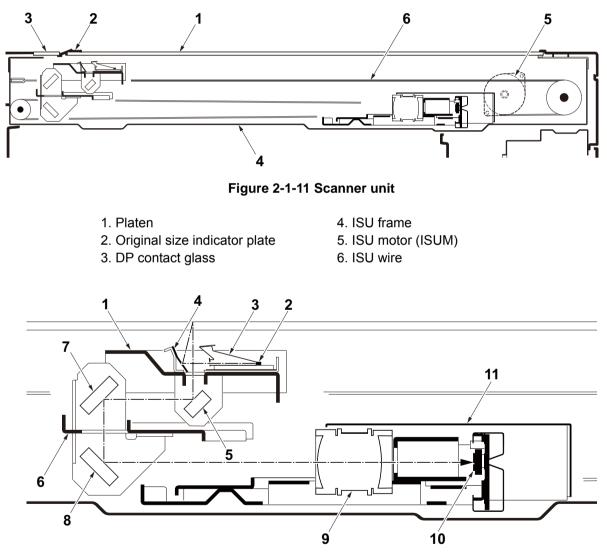


Figure 2-1-12 Image scanner unit (ISU)

- 1. The first mirror frame
- 2. Exposure lamp (EL)
- 3. Exposure lens
- 4. Reflector
- 5. Mirror A
- 6. The second mirror frame
- 7. Mirror B
- 8. Mirror C
- 9. ISU lens
- 10. CCD PWB (CCDPWB)
- 11. Scanner cover

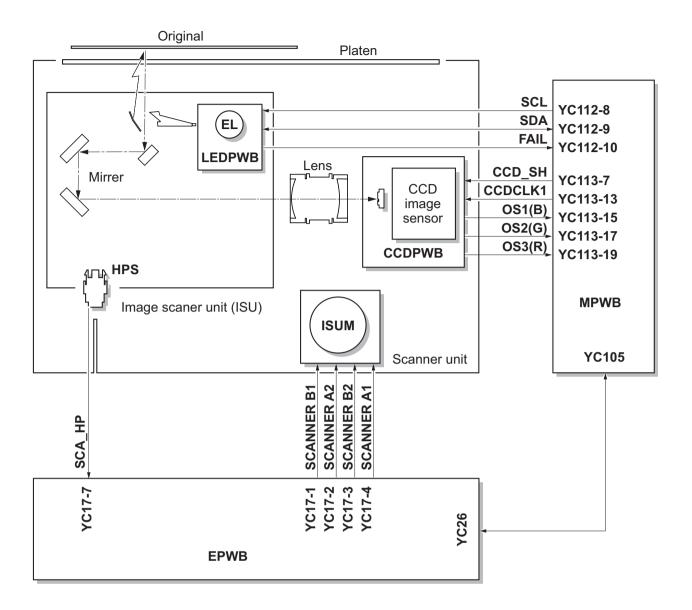


Figure 2-1-13 Scanner unit block diagram

### (2) Laser scanner section

The charged surface of the drum is then scanned by the laser beam from the laser scanner unit. The laser beam is dispersed as the polygon motor (PM) revolves to reflect the laser beam over the drum. Various lenses and mirror are housed in the laser scanner unit, adjust the diameter of the laser beam, and focalize it at the drum surface. Also the LSU cleaning motor (LSUCM) is activated to conduct automatically cleaning of the LSU dust shield glass.

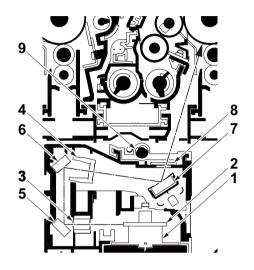


Figure 2-1-14 Laser scanner unit (LSU)

- 1. Polygon motor (PM)
- 2. Porygon mirrer
- 3. f
  elens A
- 4. fθ lens B
- 5. Mirrer A

- 6. Mirrer B
- 7. Mirrer C
- 8. LSU dust shield glass
- 9. LSU cleaning spiral

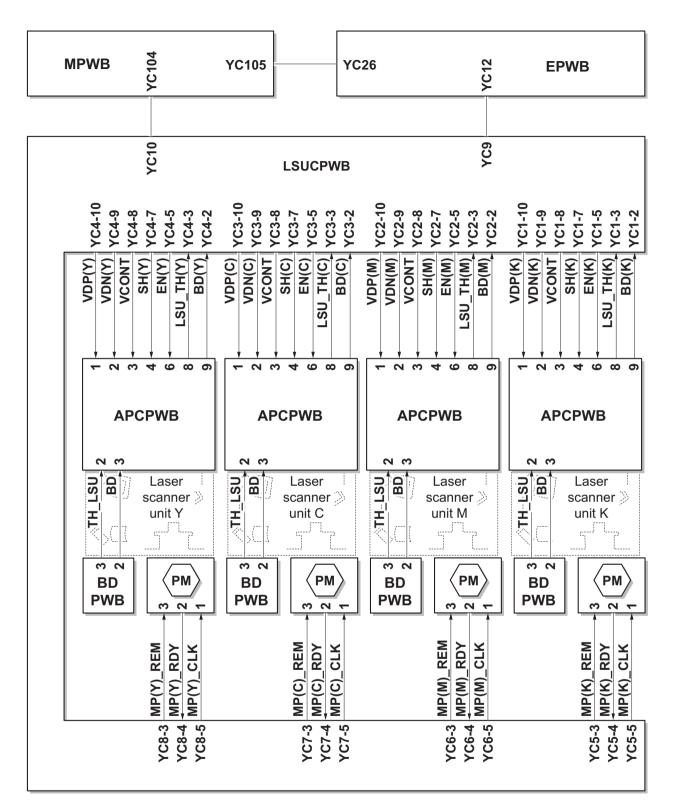


Figure 2-1-15 Laser scanner unit block diagram

2KZ/2K0

# 2-1-5 Transfer/Separation section

The transfer/separation section consists of the intermediate transfer unit section and the secondary transfer roller section.

## (1) Intermediate transfer unit section

The intermediate transfer unit section consists of the transfer cleaning unit, the transfer belt, and the four primary transfer rollers for respective color drums, and forms a full-color toner image by superimposing and transferring single-color toner images formed on each drum onto the transfer belt. Also with the ID sensors (IDS) mounted on the machine frame, the toner density on the transfer belt is measured.

The transfer cleaning unit collects toner remaining on the transfer belt after secondary transfer and forwards it as waste toner to the waste toner box.

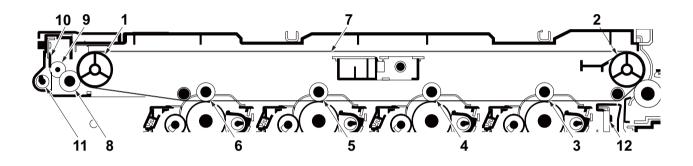


Figure 2-1-16 Inter mediate transfer unit section

- 1. Tension roller
- 2. Drive roller
- 3. Primary transfer roller K
- 4. Primary transfer roller M
- 5. Primary transfer roller C
- 6. Primary transfer roller Y
- 7. Transfer belt
- 8. Cleaning fur brush
- 9. Cleaning roller
- 10. Cleaning blade
- 11. Cleaning screw
- 12. ID sensors (IDS)

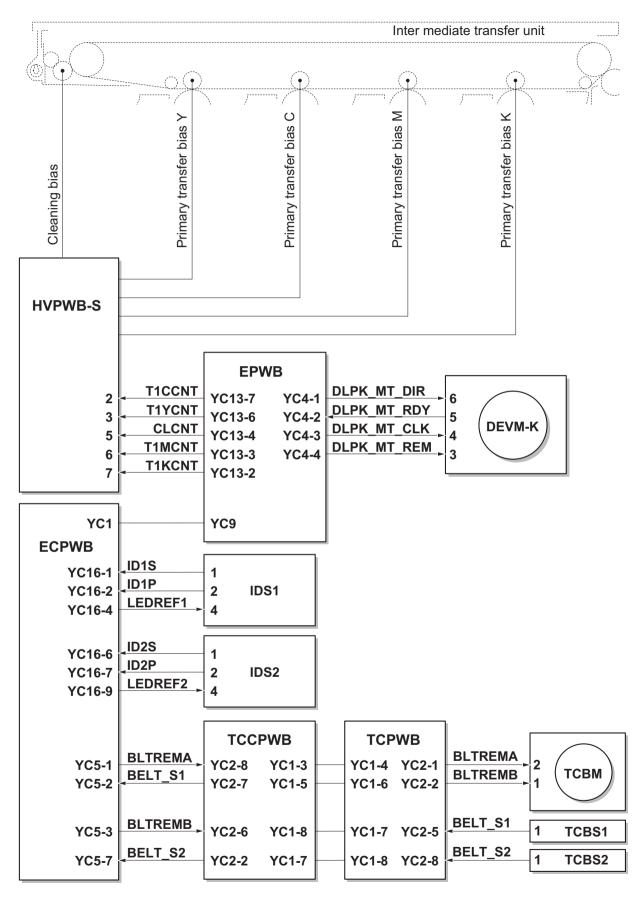


Figure 2-1-17 Intermediate transfer unit section block diagram

### (2) Secondary transfer roller section

The secondary transfer roller section consists of the secondary transfer roller mounted to the paper conveying unit and the separation needle. To the secondary transfer roller, DC bias is applied from the high voltage PWB (HVPWB). The toner image formed on the transfer belt is transferred to the paper by the potential difference. Paper after transfer is separated from the drum by applying separation charging that is output from the high voltage PWB (HVPWB) to the separation electrode.

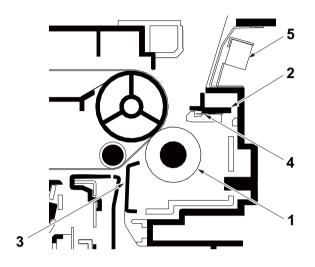


Figure 2-1-18 Secondary transfer roller section

- 1. Secondary transfer roller
- 4. Separation needle
- 2. Separation needle holder
- er 5. Fuser pre sensor
- 3. Paper chute guide
- ROOP **FUPS** YC5-5 Separation needle Separation bias **HVPWB EPWB HVREM** YC1-12 YC15-B6 T2CNT YC15-B4 YC1-14 Transfer bias SCNT YC1-15 YC15-B3 Transfer roller



## 2-1-6 Fuser section

The paper sent from the transfer/separation section is interleaved between the heat roller and the press roller. The heat roller is heated by the IH coil (IHC), and the toner is fused by heat and pressure and fixed onto the paper because the press roller is pressed by the fuser press spring. The surface temperature of heat roller is detected by the fuser thermistor1 (FTH1), fuser thermistor2 (FTH2) and the surface temperature of press roller is detected by the fuser thermistor3 (FTH3) and controlled by the engine PWB (EPWB). If the fuser section shows extremely high temperature, the power line will be shut off and the IH coil (IHC) is forced to turn off.

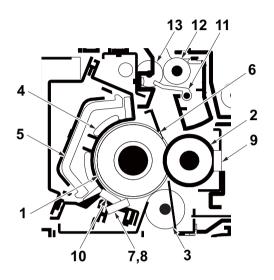


Figure 2-1-20 Fuser section

- 1. Heat roller
- 2. Press roller
- 3. Uniformity heat roller
- 4. IH coil (IHC)
- 5. Core
- 6. Separate plate
- 7. Fuser thermistor 1 (FTH1)
- 8. Fuser thermistor 2 (FTH2)
- 9. Fuser thermistor 3 (FTH3)
- 10. Fuser thermostat (FTS)
- 11. Actuator (eject sensor)
- 12. Eject roller
- 13. Eject pulley

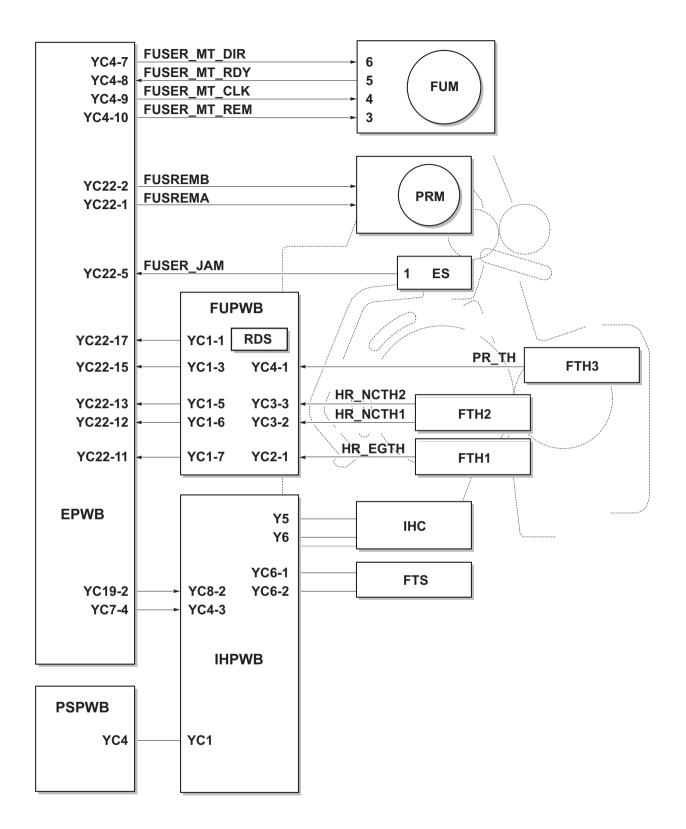


Figure 2-1-21 Fuser section block diagram

## 2-1-7 Eject/Feedshift section

The paper eject/feedshift section consists of the conveying path which sends the paper that has passed the fuser section to the inner tray, the job separator tray or the duplex conveying section.

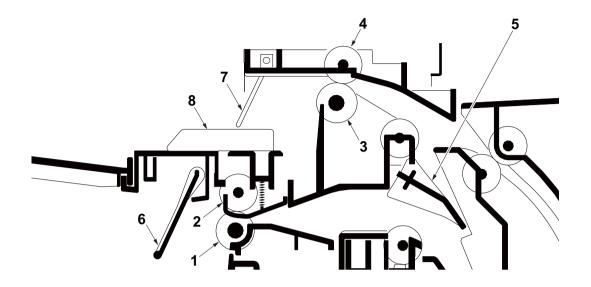


Figure 2-1-22 Eject/Feedshift section

- 1. Eject roller A
- 2. Eject pulley A
- 3. Eject roller B
- 4. Eject pulley B
- 5. Feedshift guide

- 6. Actuator (paper full sensor)
- 7. Actuator
- (job paper full sensor)
- 8. Actuator (job eject paper sensor)

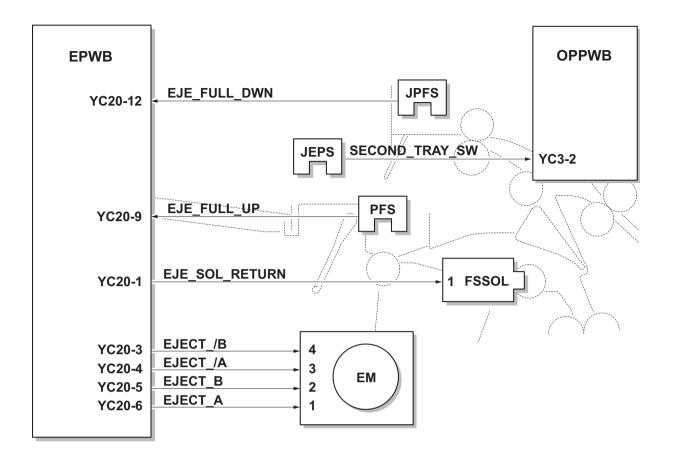


Figure 2-1-23 Eject/Feed shift section block diagram

# 2-1-8 Duplex conveying section

The duplex conveying section consists of conveying path which sends the paper sent from the eject/feedshift section to the paper feed/conveying section when duplex printing.

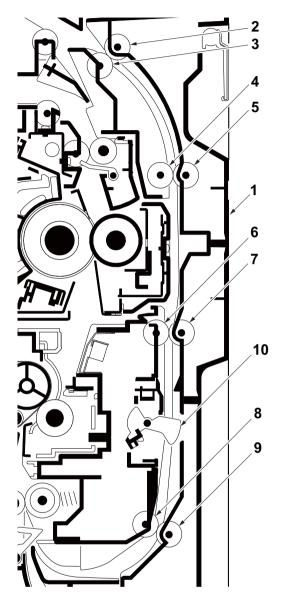


Figure 2-1-24 Duplex conveying section

- 1. Right cover 1
- 2. Duplex feed roller A
- 3. Duplex feed pulley A
- 4. Duplex feed roller B
- 5. Duplex feed pulley B
- 6. Duplex feed roller C
- 7. Duplex feed pulley C
- 8. Duplex feed roller D
- 9. Duplex feed pulley D
- 10. Actuater(duplex sensor)

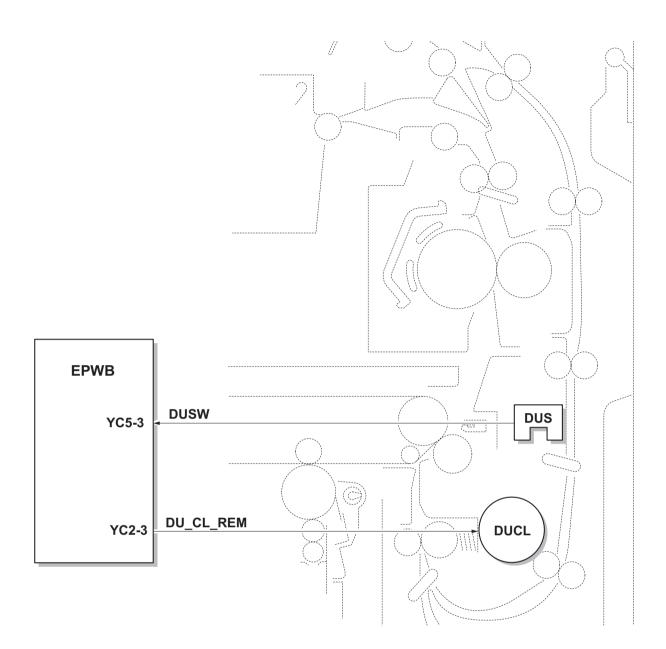


Figure 2-1-25 Duplex conveying section block diagram

# 2-1-9 Document processor

## (1) Original feed section

The original feed section consists of the parts shown in figure. An original placed on the original tray is conveyed to the original conveying section. Original is fed by the rotation of the DP forwarding pulley and DP paper feed roller.

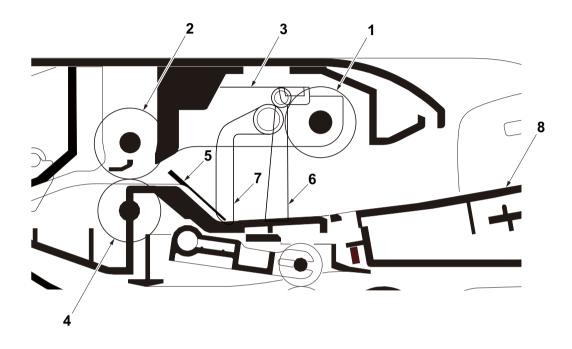


Figure 2-1-26 Original feed section

- 1. DP forwarding pulley
- 2. DP paper feed roller
- 3. DP feed holder
- 4. DP separation pulley
- 5. Front separation pad
- 6. Actuator (DP original sensor)
- 7. PF stopper
- 8. Original tray

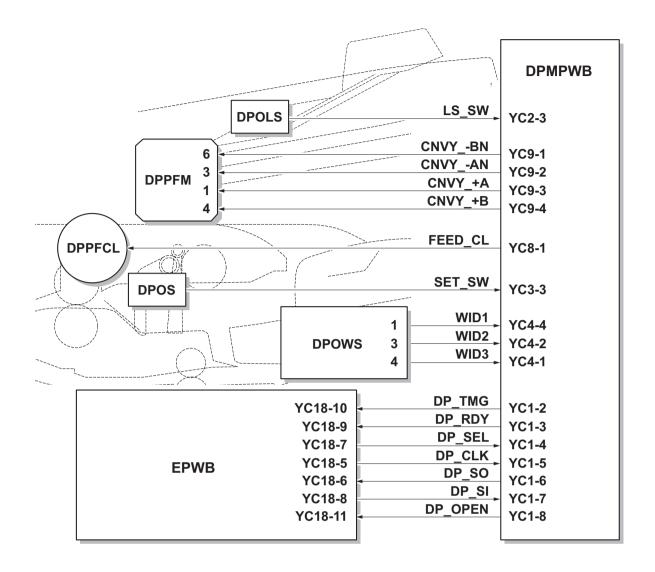


Figure 2-1-27 Original feed section block diagram

### (2) Original conveying section

The original conveying section consists of the parts shown in figure. A conveyed original is scanned by the optical section (CCD) on the main machine when it passes through the slit glass of main machine.

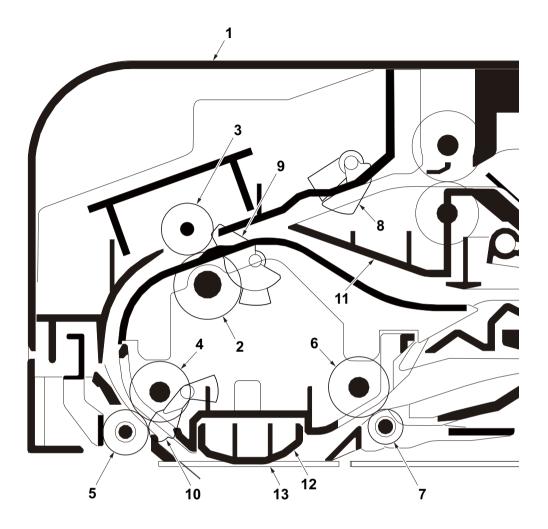


Figure 2-1-28 Original conveying section

- 1. DP top cover
- 2. DP registration roller
- 3. DP registration pulley
- 4. Conveying roller
- 5. Conveying pulley
- 6. Eject roller
- 7. Eject pulley

- 8. Actuator (DP paper feed sensor)
- 9. Actuator (DP registration sensor)
- 10. Actuator (DP timing sensor)
- 11. Switchback guide
- 12. Reading guide
- 13. Slit glass

#### 2KZ/2K0

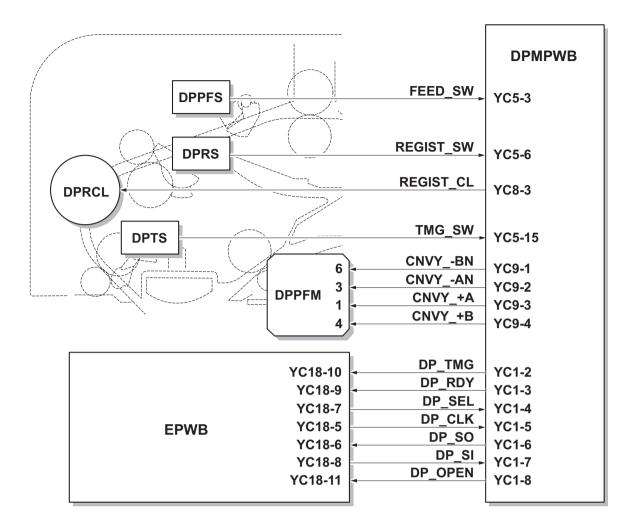


Figure 2-1-29 Original conveying section block diagram

### (3) Original switchback/eject sections

The original switchback/eject sections consists of the parts shown in figure. An original of which scanning is complete is ejected to the original eject table by the eject roller. In the case of duplex switchback scanning, an original is conveyed temporarily to the switchback tray and conveyed again to the original conveying section by the switchback roller.

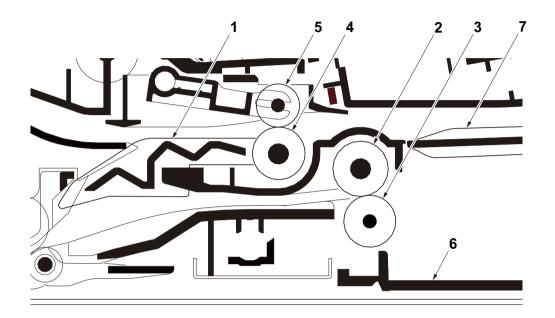


Figure 2-1-30 Original switchback/eject sections

- 1. Feedshift guide
- 2. Eject roller
- 3. Eject pulley
- 4. Switchback roller

- 5. Switchback pulley
- 6. Original eject table
- 7. Switchback tray

#### 2KZ/2K0

			/	DPMPWB
	DPPFCL		FEED_CL	YC8-1
DPS	BS	DPSBM 3 1 2	HP_SW JNCBN JNCAN JNC_+A JNC_+B	YC5-12 YC9-5 YC9-6 YC9-7 YC9-8
	EPWB	YC18-10 YC18-9 YC18-7 YC18-5 YC18-6 YC18-8 YC18-11	DP_TMG DP_RDY DP_SEL DP_CLK DP_SO DP_SI DP_OPEN	YC1-2 YC1-3 YC1-4 YC1-5 YC1-6 YC1-7 YC1-8

Figure 2-1-31 Original switchback/eject sections block diagram

# 2-2-1 Electrical parts layout

## (1) PWBs

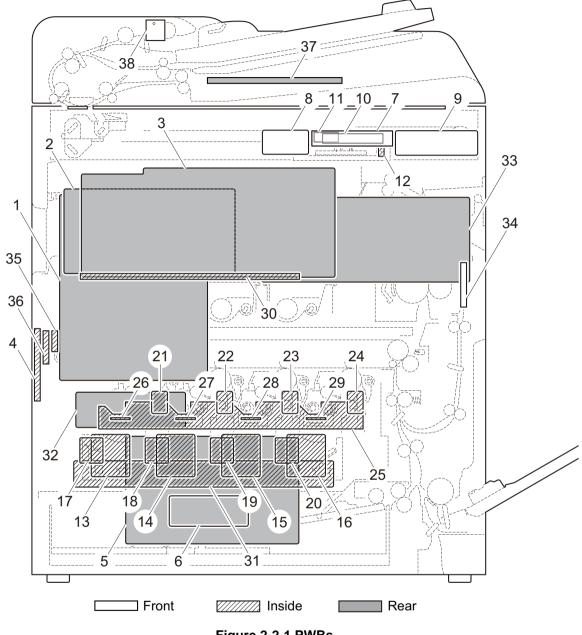


Figure 2-	-2-1 P	WBs
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1. Main PWB (MPWB)	Controls the software for print data processing and provides the
	interface with computers.
2. Engine PWB (EPWB)	Controls printer hardware such as high voltage/bias output con-
	trol, paper conveying system control, and fuser temperature con-
	trol, etc.
3. High voltage PWB (HVPWB)	Generates main charging, developing bias, secondary transfer
	bias.
4. High voltage PWB sub (HVPWB-S)	Generates primary transfer bias, cleaning bias.
5. Power source PWB (PSPWB)	After full-wave rectification of AC power source input, switching
	for converting to 24 V DC for output. Controls the fuser heater.
6. Power source PWB sub (PSPWB-S)	5V output control when standing by.

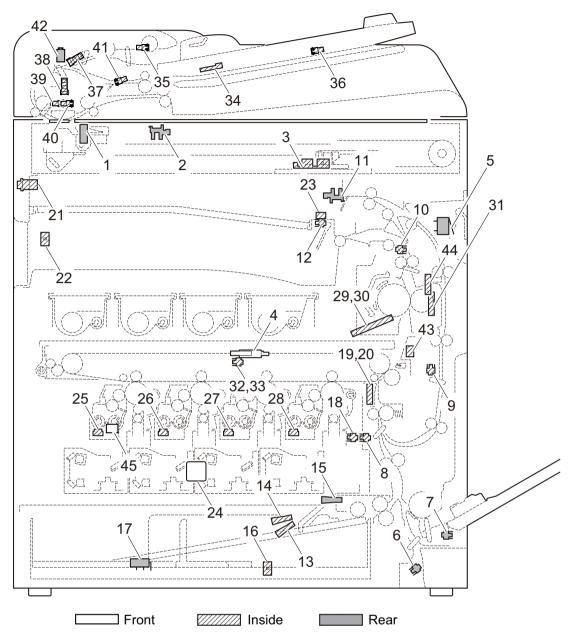
7. Operation panel PWB main	
	Consists of the LCD, LED indicators and key switches.
8. Operation panel PWB left	
	Consists of the LED indicators and key switches.
9. Operation panel PWB right	
	Consists of the LED indicators and key switches.
10. LCD (LCD)	
11. LCD relay PWB (LCDRPWB)	Consists of wiring relay circuits between the operation panel PWB
	main and the LCD PWB.
12. CCD PWB (CCDPWB)	Scans the image of originals. Generates and controls the laser beamfor yellow.
	Generates and controls the laser beam for cyan.
	Generates and controls the laser beam for magenta.
. , ,	Generates and controls the laser beam for black.
· · · · · · · · · · · · · · · · · · ·	Controls horizontal synchronizing timing of laser beam for yellow.
· · · · · · · · · · · · · · · · · · ·	Controls horizontal synchronizing timing of laser beam for cyan.
. , ,	Controls horizontal synchronizing timing of laser beam for
	magenta.
20. BD PWB K (BDPWB-K)	Controls horizontal synchronizing timing of laser beam for black.
21. Drum PWB Y (DRPWB-Y)	Relays wirings from electrical components on the drum unit for
	yellow.
	Stores the drum's identifications a EEPROM.
22. Drum PWB C (DRPWB-C)	Relays wirings from electrical components on the drum unit for
	cyan.
	Stores the drum's identifications a EEPROM. Relays wirings from electrical components on the drum unit for
	magenta.
	Stores the drum's identifications a EEPROM.
24. Drum PWB K (DRPWB-K)	Relays wirings from electrical components on the drum unit for
	black.
	Stores the drum's identifications a EEPROM.
25. Drum connect PWB (DRCPWB)	Consists of wiring relay circuit between engine PWB and the
	drum unit.
26. Developing PWB Y (DEVPWB-Y)	Relays wirings from electrical components on the developing unit
	for yellow.
	Stores the developer's identifications a EEPROM.
27. Developing PWB C (DEVPWB-C)	
	for cyan. Stores the developer's identifications a EEPROM.
28 Developing PWB M (DEVPWB-M)	Relays wirings from electrical components on the developing unit
	for magenta.
	Stores the developer's identifications a EEPROM.
29. Developing PWB K (DEVPWB-K)	Relays wirings from electrical components on the developing unit
	for black.
	Stores the developer's identifications a EEPROM.
30. RFID PWB (RFPWB)	Reads the container information.
31. LSU connect PWB (LSUCPWB)	Consists of wiring relay circuit between main PWB, engine
	connect PWB and LSU unit.
32. Engine connect PWB (ECPWB)	Consists of wiring relay circuit between engine PWB and drum
	connect PWB, transfer connect PWB, option unit.
33. IH PWB (IHPWB)	
34. FUSEI FVVB (FUPVVB)	Relays wirings from electrical components on the fuser unit. Fuser individual information in EEPROM storage.

· /	Relays wirings from electrical components on the intermediate transfer unit.
	Intermediate transfer individual information in EEPROM storage.
36. Transfer connect PWB (TCCPWB)	Consists of wiring relay circuit between engine connect PWB and Transfer PWB.
37. DP main PWB (DPMPWB)	Consists the motor and clutch driver circuit and wiring relay circuit.
38. DP LED PWB (DPLEDPWB)	Displays the presence of the original.

#### **PWB** names conversion

No.	Name used in service manual	Name used in parts list
1	Main PWB (MPWB)	PARTS PWB MAIN ASSY SP
2	Engine PWB (EPWB)	PARTS PWB ENGINE ASSY SP
3	Engine connect PWB (ECPWB)	PARTS PWB ENGINE CONNECT ASSY SP
4	High voltage PWB (HVPWB)	PARTS HVU1 SP
5	High voltage PWB sub (HVPWB-S)	PARTS HVU2 SP
6	Power source PWB (PSPWB)	PARTS LVU MAIN 100 SP PARTS LVU MAIN 200 SP
7	Power source PWB sub(PSPWB-S)	PARTS LVU SUB 100 SP PARTS LVU SUB 200 SP
8	IH PWB (IHPWB)	PARTS PWB IH 100 ASSY SP PARTS PWB IH 200 ASSY SP
9	Operation panel PWB main(OPPWB-M)	PARTS PWB PANEL MAIN ASSY SP
10	Drum connect PWB (DRCPWB)	PARTS PWB DRUM DLP CONNECT ASSY SP
11	Transfer connect PWB (TCCPWB)	PARTS PWB TRANSFER CONNECT ASSY SP
12	LSU connect PWB (LSUCPWB)	PARTS PWB LSU CONNECT ASSY SP
13	RFID PWB (RFIDPWB)	PARTS PWB RFID ASSY SP
14	DP main PWB (DPMPWB)	PARTS PWB DRIVE ASSY SP

#### (2) Switches and sensors

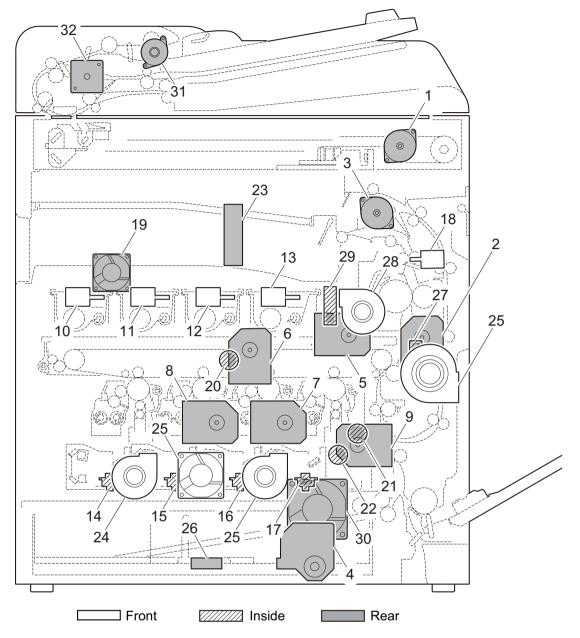


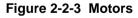


- 1. Home position sensor (HPS) ..... Detects the ISU in the home position.
- 2. Original detection switch (ODSW) ...... Operates the original size detection sensor.
- 3. Original size sensor (OSS) ..... Detects the size of the original.
- 4. Front cover switch (FCSW)..... Detects the opening and closing of the front cover.
- 5. Right cover switch (RCSW) ...... Detects the opening and closing of the right cover.
- 6. Feed sensor (FS)..... Detects a paper misfeed in the vertical conveying section.
- 7. MP paper sensor (MPPS)..... Detects the presence of paper on the MP tray.
- 8. Registration sensor (RS)..... Controls the secondary paper feed start timing.
- 9. Duplex sensor (DUS)..... Detects a paper jam in the duplex section.
- 10. Eject sensor (ES)..... Detects a paper misfeed in the fuser or eject section.
- 11. Job paper full sensor (JPFS) ..... Detects the paper full in the job separator tray.
- 12. Paper full sensor (PFS)..... Detects the paper full in the inner tray.
- 13. Paper sensor 1 (PS1) ..... Detects the presence of paper in the cassette.

<ol> <li>15. Lift sensor (LS)</li> <li>16. Paper size width switch (PWSW)</li> </ol>	Detects the presence of paper in the cassette. Detects activation of upper limit of the bottom plate. Detects the width of paper in the cassette. Detects the length of paper in the cassette.
18. ID shutter sensor (IDSS)	Detects the position of the iD shutter.
19. ID sensor 1 (IDS1)	Measurement of density of toner at calibration.
20. ID sensor 2 (IDS2)	Measurement of density of toner at calibration.
21. Main power switch (MSW)	Turns ON/OFF the AC power source.
22. Bridge detection switch (BRDSW)	
23. Job eject papersensor (JEPS)	Detects the presence of paper in the job separator.
24. Temperature sensor (TEMS)	Detects temperature and absolute humidity in machine.
· · · · ·	Detects the amount of toner remainder in the developing unit Y.
, ,	Detects the amount of toner remainder in the developing unit C.
· · · · ·	Detects the amount of toner remainder in the developing unit M.
· · · · · ·	Detects the amount of toner remainder in the developing unit K.
. ,	Detects the heat roller temperature.(edge)
. ,	Detects the heat roller temperature.(center)
31. Fuser thermistor 3 (FTH3)	
· · · · ·	Detects the position of the primary transfer belt.
, , ,	Detects the position of the primary transfer belt.
34. DP original size width sensor	
(DPOWS)	
35. DP original sensor (DPOS)	Detects the presence of an original.
36. DP original size length sensor	Detected to be added to a detect
(DPOLS)	
37. DP paper feed sensor (DPPFS)	
39. DP timing sensor (DPTS)	Controls the secondary paper feed start timing.
40. DP open/close sensor (DPOCS)	
,	Detects the switchback guide in the home position.
	Shuts off 24 V DC power line when the dp top coveris opened.
43. Fuser pre sensor (FUPS)	
44. Fuser roller rotation detection sensor	
(FURDS)	Detects the rotation of the fuser roller
45. Waste toner sensor (WTS)	

### (3) Motors





- 1. ISU motor (ISUM) ..... Drives the ISU.
- 2. Fuser motor (FUM) ..... Drives the fuser section.
- 3. Eject motor (EM)..... Drives the eject section.
- 4. Lift motor (LM)..... Operates the bottom plate.
- 5. Drum motor K (DRM-K) ..... Drives the drum unit K.
- 6. Drum motor YCM (DRM-YCM) ..... Drives the drum unit YCM.
- 7. Developer motor K (DEVM-K)..... Drives the developer unit K.
- 8. Developer motor YCM (DEVM-YCM) ... Drives the developer unit YCM.
- 9. Conveying motor (CM)..... Drives the paper feed section and conveying section.
- 10. Toner motor Y (TM-Y) ..... Replenishes toner to the developer unit Y.
- 11. Toner motor C (TM-C)..... Replenishes toner to the developer unit C.
- 12. Toner motor M (TM-M)..... Replenishes toner to the developer unit M.
- 13. Toner motor K (TM-K) ..... Replenishes toner to the developer unit K.

14. Polygon motor Y (PM-Y)..... Drives the polygon mirror Y. 15. Polygon motor C (PM-C)..... Drives the polygon mirror C. 16. Polygon motor M (PM-M)..... Drives the polygon mirror M. 17. Polygon motor K (PM-K)..... Drives the polygon mirror K. 18. Fuser press release motor (FPRM) ...... Drives the pressure release system of the fuser. 19. Controller fan motor (CONFM)..... Cools the controller section. 20. Transfer belt motor (TCBM) ..... Drives the transfer belt. 21. ID shutter motor (IDSM)..... Drives the ID sensor cleaning section. 22. LSU cleaning motor (LSUCM) ..... Drives the LSU cleaning section. 23. IH fan motor (IJHFM) ...... Cools the IH PWB. 24. Developer fan motor (DEVFM) ...... Cools the developer section. 25. LSU fan motor (LSUFM) ...... Cools the LSU section. 26. Power source fan motor (PSFM) ...... Cools the power source PWB. 27. Fuser fan motor (FUFM) ...... Cools the fuser and eject sections. 28. Container fan motor (CFM) ...... Cools the toner container section. 29. IH coil fan motor (IHCFM) ...... Cools the IH coil. 30. Imaging fan motor (IMGFM)..... Cools the imaging section. 31. DP paper feed motor (DPPFM)..... Drives the original feed section.

32. DP switchback motor (DPSBM)..... Drives the original switchback section.

### (4) Others

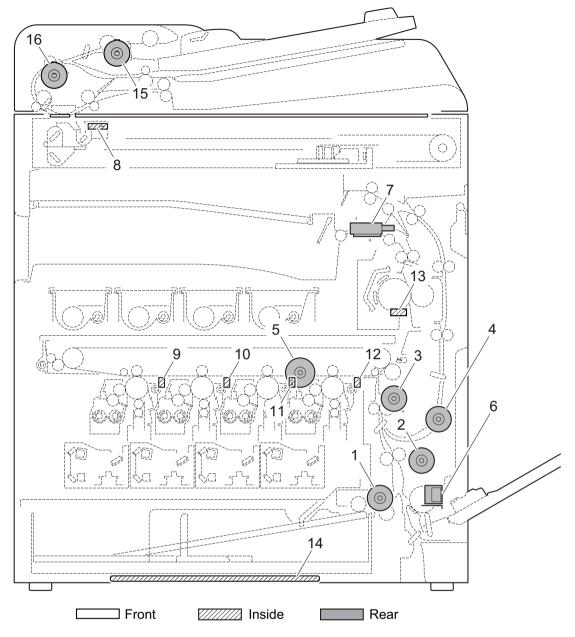


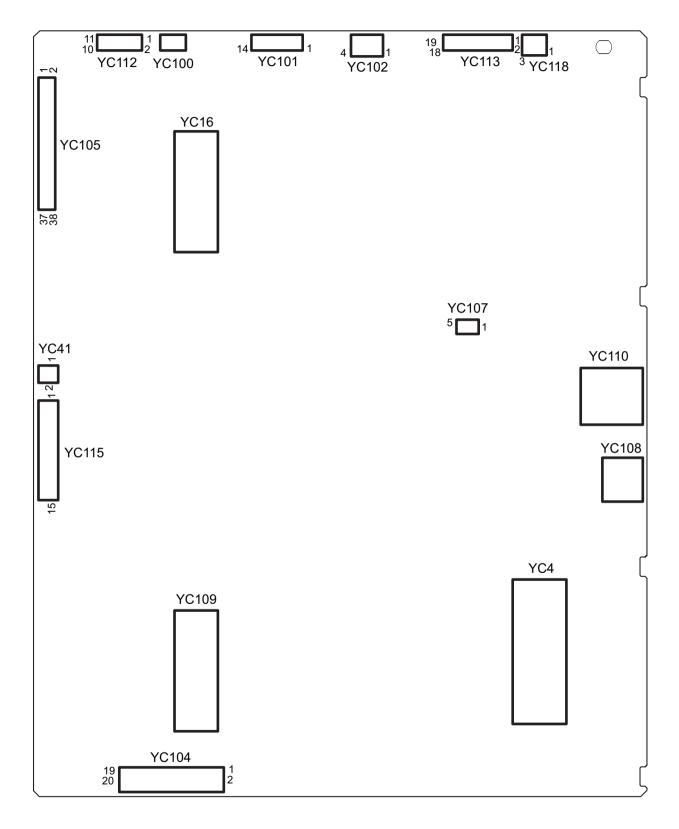
Figure 2-2-4 Others

- 1. Paper feed clutch (PFCL) ...... Controls the primary paper feed from cassette.
- 2. Mid clutch (MCL)..... Controls the paper conveying.
- 3. Registration clutch (RCL)..... Controls the secondary paper feed.
- 4. Duplex clutch (DUCL) ...... Controls the drive of the duplex feed roller.
- 5. Developer stop clutch (DEVSCL)...... Controls the drive of the developer.
- 6. MP solenoid (MPSOL) ..... Controls the MP bottom plate.
- 7. Feedshift solenoid (FSSOL)..... Operates the feedshift guide.
- 8. Exposure lamp (EL) ..... Exposes originals.
- 9. Cleaning lamp Y (CL-Y) ..... Eliminates the residual electrostatic charge on the drum.
- 10. Cleaning lamp C (CL-C)..... Eliminates the residual electrostatic charge on the drum.
- 11. Cleaning lamp M (CL-M)..... Eliminates the residual electrostatic charge on the drum.
- 12. Cleaning lamp K (CL-K)..... Eliminates the residual electrostatic charge on the drum.
- 13. Fuser thermostat (FTS)..... Prevents overheating of the heat roller.
- 14. Cassette heater (CH) ...... Dehumidifies the cassette section.

- 15. DP paper feed clutch (DPPFCL)...... Controls the drive of the DP forwarding pulley and DP paper feed roller.
- 16. DP registration clutch (DPRCL) ..... Controls the secondary paper feed.

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# 2-3-1 Main PWB





Connector	Pin	Signal	I/O	Voltage	Description
YC100	1	VBUS	0	5 V DC	5 V DC power output
Connected to	2	DATA-	I/O	LVDS	USB data signal
operathion	3	DATA+	I/O	LVDS	USB data signal
panel PWB main(USB)	4	ID	-	-	Not used
main(00D)	5	SHIELD_GND	-	-	Ground
YC101	1	NC	-	-	Not used
Connected to	2	GND	-	-	Ground
operation panel PWB	3	PANEL_STAT US	Ι	0/3.3 V DC	Operation panel status signal
main (contorol)	4	INT_POWER KEY	Ι	0/3.3 V DC	Power key: On/Off
	5	PANEL_RESE T	0	0/3.3 V DC	OPPWB-M reset signal
	6	AUDIO	0	Analog	Voice output signal
	7	LIGHTOFF_P OWER	0	0/3.3 V DC	Sleep return signal 1
	8	SHUTDOWN	0	0/3.3 V DC	24 V down signal
	9	LED_PROCE SSING	0	0/3.3 V DC	Processing LED control signal
	10	LED_ATTENT ION	0	0/3.3 V DC	Attention LED control signal
	11	LED_MEMOR Y	0	0/3.3 V DC	Memory LED control signal
	12	SUSPEND_P ower	0	5 V DC	5 V DC power output to OPPWB-M
	13	ENERGY_SA VE	0	0/3.3 V DC	Energy save signal
	14	BEEP_POWE RON	0	0/3.3 V DC	Sleep return signal 0
YC102	1	5V2	0	5 V DC	5 V DC power output to OPPWB-M
Connected to	2	5V2	0	5 V DC	5 V DC power output to OPPWB-M
operation	3	GND	-	-	Ground
panel PWB main(power source)	4	GND	-	-	Ground

Connector	Pin	Signal	I/O	Voltage	Description
YC104	1	VDN(K)	0	LVDS	Video data signal (-)
Connected to	2	VDP(K)	0	LVDS	Video data signal (+)
LSU connect	3	SH(K)	0	0/3.3 V DC	Sample/hold signal
PWB	4	BD(K)	I	0/3.3 V DC(pulse)	Horizontal synchronizing signal
	5	SGND	-	-	Ground
	6	VDN(M)	0	LVDS	Video data signal (-)
	7	VDP(M)	0	LVDS	Video data signal (+)
	8	SH(M)	0	0/3.3 V DC	Sample/hold signal
	9	BD(M)	T	0/3.3 V DC(pulse)	Horizontal synchronizing signal
	10	SGND	-	-	Ground
	11	VDN(C)	0	LVDS	Video data signal (-)
	12	VDP(C)	0	LVDS	Video data signal (+)
	13	SH(C)	0	0/3.3 V DC	Sample/hold signal
	14	BD(C)	Т	0/3.3 V DC(pulse)	Horizontal synchronizing signal
	15	SGND	-	-	Ground
YC105	1	SLEEPOFF	Ι	0/3.3 V DC	Sleep Off signal
Connected to	2	ENG_HLD	0	0/3.3 V DC	Engine hold signal
engine PWB	3	SCAN_HLD	0	0/3.3 V DC	Scan hold signal
	4	LIGHTSLEEP N	0	0/3.3 V DC	Light sleep shift signal
	5	24V4	Т	24 V DC	24 V DC power input from EPWB
	6	24V4	Ι	24 V DC	24 V DC power input from EPWB
	7	5V4	Ι	5 V DC	5 V DC power input from EPWB
	8	3.3V0	I	3.3 V DC	3.3 V DC power input from EPWB
	9	3.3V4	I	3.3 V DC	3.3 V DC power input from EPWB
	10	3.3V4	I	3.3 V DC	3.3 V DC power input from EPWB
	11	24VDOWN	I	0/3.3 V DC	24 V down signal
	12	GND	-	-	Ground
	13	GND	-	-	Ground
	14	GND	-	-	Ground
	15	GND	-	-	Ground
	16	GND	-	-	Ground
	17	HYP_SCL	I	0/3.3 V DC(pulse)	Clock signal
	18	HYP_SDA	Ι	0/3.3 V DC(pulse)	Data signal
	19	HYP_INT	0	0/3.3 V DC	Interrupt sijgnal
	20	AQUA_CLK	I	0/3.3 V DC(pulse)	Clock signal
	21	AQUA_SO	0	0/3.3 V DC(pulse)	Serial communication data signal output
	22	AQUA_SI	I	0/3.3 V DC(pulse)	Serial communication data signal intput

Connector	Pin	Signal	I/O	Voltage	Description
YC105	23	AQUA_SEL	Ι	0/3.3 V DC	Select signal
Connected to	24	AQUA_RDY	0	0/3.3 V DC	Ready signal
engine PWB	25	PVSYNC	I	0/3.3 V DC(pulse)	Vertical synchronizing signal
	26	OVSYNCMON	0	0/3.3 V DC	Sub-scanning monitor signal
	27	PAGEST	Ι	0/3.3 V DC	Sub-scanning standard signal
	28	EME_CLK	0	0/3.3 V DC(pulse)	Clock signal
	29	EME_SO	0	0/3.3 V DC(pulse)	Serial communication data signal output
	30	EME_SI	I	0/3.3 V DC(pulse)	Serial communication data signal intput
	31	EME_BSY	Ι	0/3.3 V DC	Busy signal
	32	EME_DIR	Ι	0/3.3 V DC	Communication direction change signal
	33	EME_IRN	Ι	0/3.3 V DC	Interrupt signal
	34	5V4IL	-	DC5 V	5 V DC power input from EPWB
	35	BDN(K)	0	0/3.3 V DC(pulse)	Horizontal synchronizing signal (K)
	36	BDN(M)	Ι	0/3.3 V DC(pulse)	Horizontal synchronizing signal (M)
	37	BDN(C)	Ι	0/3.3 V DC(pulse)	Horizontal synchronizing signal (C)
	38	BDN(Y)	-	0/3.3 V DC(pulse)	Horizontal synchronizing signal (Y)
YC107	1	VBUS	0	5 V DC	5 V DC power output
Connected to	2	DATA-	I/O	LVDS	USB data signal
USB-HOST	3	DATA+	I/O	LVDS	USB data signal
	4	ID	-	-	Not used
	5	SHIELD_GND	-	-	Ground
YC112	1	+24V4	0	24 V DC	24 V DC power output to LEDPWB
Connected to	2	+24V4	0	24 V DC	24 V DC power output to LEDPWB
exposure lamp (LED	3	POW	0	0/3.3 V DC	LED driver: On/Off
PWB)	4	PWM	0	0/3.3 V DC	PWM signal
	5	PGND	-	-	Ground
	6	SGND	-	-	Ground
	7	VSET	0	Analog	Analog voltage
	8	SCL	0	0/3.3 V DC(pulse)	Clock signal
	9	SDA	I/O	0/3.3 V DC(pulse)	Data signal
	10	FAIL	Ι	0/3.3 V DC	Error signal
	11	5V4	0	5 V DC	5 V DC power output to LEDPWB
		1		1	1

Connector	Pin	Signal	I/O	Voltage	Description
YC113	1	CCDPWR	0	12 V DC	12 V DC power output to CCDPWB
Connected to	2	CCDPWR	0	12 V DC	12 V DC power output to CCDPWB
CCD PWB	3	+5V4	0	5 V DC	5 V DC power output to CCDPWB
	4	+5V4	0	5 V DC	5 V DC power output to CCDPWB
	5	+5V4	0	5 V DC	5 V DC power output to CCDPWB
	6	+3.3V4	0	3.3 V DC	3.3 V DC power output to CCDPWB
	7	CCD_SH	0	0/3.3 V DC	Shift gate signal
	8	GND	-	-	Ground
	9	RS	0	0/3.3 V DC	Reset signal
	10	GND	-	-	Ground
	11	СР	0	0/3.3 V DC	Clamping signal
	12	GND	-	-	Ground
	13	CCDCLK1	0	0/3.3 V DC(pulse)	Clock signal
	14	GND	-	-	Ground
	15	OS1(B)	I	Analog	CCD Image output signal(B)
	16	GND	-	-	Ground
	17	OS2(G)	I	Analog	CCD Image output signal(G)
	18	GND	-	-	Ground
	19	OS3(R)	I	Analog	CCD Image output signal(R)
YC115	1	DEEPSLEEP N	0	0/3.3 V DC	Sleep signal: On/Off
Connected to	2	GND	-	-	Ground
power source	3	GND	-	-	Ground
PWB	4	GND	-	-	Ground
	5	GND	-	-	Ground
	6	GND	-	-	Ground
	7	GND	-	-	Ground
	8	GND	-	-	Ground
	9	5V2	I	5 V DC	5 V DC power input from PSPWB
	10	5V2	Ι	5 V DC	5 V DC power input from PSPWB
	11	5V2	I	5 V DC	5 V DC power input from PSPWB
	12	5V2	Т	5 V DC	5 V DC power input from PSPWB
	13	5V2	I	5 V DC	5 V DC power input from PSPWB
	14	5V2	I	5 V DC	5 V DC power input from PSPWB
	15	5V2	I	5 V DC	5 V DC power input from PSPWB

Connector	Pin	Signal	I/O	Voltage	Description
YC118	1	AUTODOWN	0	0/3.3 V DC	Auto down signal
Connected to	2	GND	-	-	Ground
power source PWB sub	3	5V0	Ι	5 V DC	5 V DC power input from PSPWB-S
			-		
YC41	1	+24V1	0	24 V DC	24 V DC power output to CONFM
Connected to controller fan	2	CONTFANDR N	0	0/24 V DC	CONFM: On/Off
motor	3	N.C.	-	-	Not used

# 2-3-2 Engine PWB

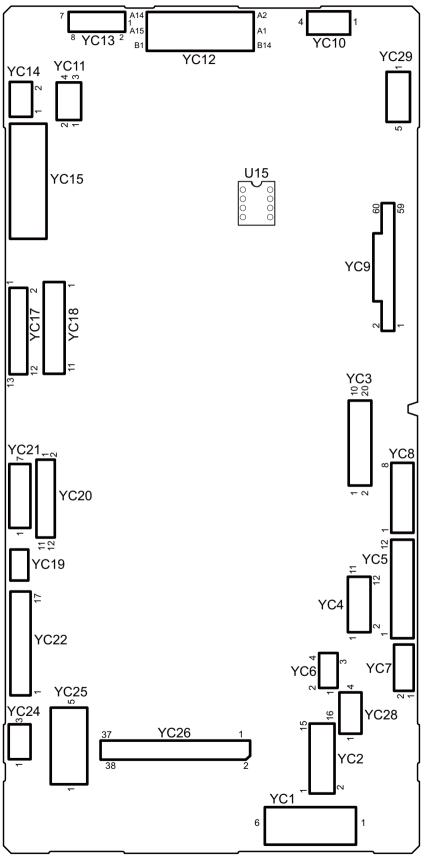


Figure 2-3-2 Engine PWB silk-screen diagram

Connector	Pin	Signal	I/O	Voltage	Description
YC1	1	GND	-	-	GROUND
Connected to	2	GND	-	-	GROUND
power source PWB	3	GND	-	-	GROUND
	4	24V2	0	24 V DC	24 V DC power input from PSPWB
	5	24V2	0	24 V DC	24 V DC power input from PSPWB
	6	24V2	0	24 V DC	24 V DC power input from PSPWB
YC2	1	24V4	0	24 V DC	24 V DC power output to MPSOL
Connected to MP solenoid,	2	MPF_SOL_R EM	0	0/24 V DC	MPSOL: On/Off
duplex clutch, regis-	3	DU_CL_REM	0	0/24 V DC	DUCL: On/Off
tration clutch,	4	24V4	0	24 V DC	24 V DC power output to DUCL
mid clutch, feed clutch,	5	REG_CL_RE M	0	0/24 V DC	RCL: On/Off
conveying	6	24V4	0	24 V DC	24 V DC power output to RCL
motor	7	MID_CL_REM	0	0/24 V DC	MCL: On/Off
	8	24V4	0	24 V DC	24 V DC power output to MCL
	9	CAS_CL_RE M	0	0/24 V DC	PFCL: On/Off
	10	24V4	0	24 V DC	24 V DC power output to PFCL
	11	FEED_MT_DI R	0	0/5 V DC	CM drive shift signal
	12	FEED_MT_R DY	I	0/3.3 V DC	CM ready signal
	13	FEED_MT_CL K	0	0/5 V DC (pulse)	CM clock signal
	14	FEED_MT_R EM	0	0/5 V DC	CM: On/Off
	15	GND	-	-	GROUND
	16	24VIL	0	24 V DC	24 V DC power output to CM

Connector	Pin	Signal	I/O	Voltage	Description
YC3	1	DLPC_MT_DI R	0	0/5V DC	DEVM-YCM drive shift signal
Connected to developer	2	DLPC_MT_R DY	I	0/3.3 V DC	DEVM-YCM ready signal
motor YCM, developer	3	DLPC_MT_CL K	0	0/5 V DC (pulse)	DEVM-YCM clock signal
stop clutch, drum motor YCM, drum	4	DLPC_MT_R EM	0	0/5 V DC	DEVM-YCM: On/Off
motor K	5	GND	-	-	GROUND
	6	24V4	0	24 V DC	24 V DC power output to DEVM-YCM
	7	24V4	0	24 V DC	24 V DC power output to DEVSCL
	8	DLP_CL_REM	0	0/3.3 V DC	DEVSCL: On/Off
	9	DRMC_MT_DI R	0	0/5 V DC	DRM-YCM drive shift signal
	10	DRMC_MT_R DY	Ι	0/3.3 V DC	DRM-YCM ready signal
	11	DRMC_MT_C LK	0	0/5 V DC (pulse)	DRM-YCM clock signal
	12	DRMC_MT_R EM	0	0/5 V DC	DRM-YCM: On/Off
	13	GND	-	-	GROUND
	14	24VIL	0	24 V DC	24 V DC power output to DRM-YCM
	15	DRMK_MT_DI R	0	0/5 V DC	DRM-K drive shift signal
	16	DRMK_MT_R DY	Ι	0/3.3 V DC	DRM-K ready signal
	17	DRMK_MT_C LK	0	0/5 V DC (pulse)	DRM-K clock signal
	18	DRMK_MT_R EM	0	0/5 V DC	DRM-K: On/Off
	19	GND	-	-	GROUND
	20	24VIL	0	24 V DC	24 V DC power output to DRM-K

Connector	Pin	Signal	I/O	Voltage	Description
YC4	1	DLPK_MT_DI R	0	0/5 V DC	DEVM-K drive shift signal
Connected to developer	2	DLPK_MT_R DY	Ι	0/3.3 V DC	DEVM-K ready signal
motor K, fuser motor	3	DLPK_MT_CL K	0	0/5 V DC (pulse)	DEVM-K clock signal
	4	DLPK_MT_RE M	0	0/5 V DC	DEVM-K: On/Off
	5	GND	-	-	GROUND
	6	24VIL	0	24 V DC	24 V DC power output to DEVM-K
	7	FUSER_MT_ DIR	0	0/5 V DC	FUM drive shift signal
	8	FUSER_MT_ RDY	Ι	0/3.3 V DC	FUM ready signal
	9	FUSER_MT_ CLK	0	0/5 V DC (pulse)	FUM clock signal
	10	FUSER_MT_ REM	0	0/5 V DC	FUM: On/Off
	11	GND	-	-	GROUND
	12	24VIL	0	24 V DC	24 V DC power output to FUM
YC5	1	3.3V4	0	3.3 V DC	3.3 V DC power output to DUS
Connected to	2	GND	-	-	GROUND
duplex sen-	3	DUSW	Ι	0/3.3 V DC	DUS: On/Off
sor, MP paper sen-	4	GND	-	-	GROUND
sor, feed sen-	5	ROOP	-	-	FUPS: On/Off
sor	6	5V4	-	5 V DC	5 V DC power output to FUPS
	7	3.3V0	0	3.3 V DC	3.3 V DC power output to MPPS
	8	GND	-	-	GROUND
	9	MPF_SENSE	I	0/3.3 V DC	MPPS: On/Off
	10	3.3V4	0	3.3 V DC	3.3 V DC power output to FS
	11	GND	-	-	GROUND
	12	FEEDSW	Ι	0/3.3 V DC	FS: On/Off
YC6	1	SUB_SCL	0	3.3 V DC	Clock signal
Connected to	2	SUB_SDA	I/O	3.3 V DC	Data signal
sub PWB	3	GND	-	-	GROUND
	4	3.3V4	0	3.3 V DC	3.3 V DC power output to SPW

Connector	Pin	Signal	I/O	Voltage	Description
	4	DVD			Detainmut
YC7	1	RXD		3.3 V DC	Data input
Connected to IH PWB	2	TXD	0	3.3 V DC	Data output
	3	ROTATION	0	3.3 V DC	Rotation detection
	4	IH_REM	0	3.3 V DC	Heater remote
	5	3.3V4			
	6	GND			
YC8	1	24V4	0	24 V DC	24 V DC power output to TM-Y
Connected to	2	TNMYDRN	0	0/24 V DC	TM-Y: On/Off
toner motor Y/C/M/K	3	24V4	0	24 V DC	24 V DC power output to TM-C
	4	TNMCDRN	0	0/24 V DC	TM-C: On/Off
	5	24V4	0	24 V DC	24 V DC power output to TM-M
	6	TNMMDRN	0	0/24 V DC	TM-M: On/Off
	7	24V4	0	24 V DC	24 V DC power output to TM-K
	8	TNMKDRN	0	0/24 V DC	TM-K: On/Off
YC9	1	GND	-	-	GROUND
Connected to	2	GND	-	-	GROUND
engine con-	3	GND	-	-	GROUND
nect PWB	4	ID2S	I	Analog	IDS2 detection signal
	5	ID2P	I	Analog	IDS2 detection signal
	6	ID1S	Ι	Analog	IDS1 detection signal
	7	ID1P	Ι	Analog	IDS1 detection signal
	8	LEDREF2	0	Analog	IDS2 control signal
	9	LEDREF1	0	Analog	IDS1 control signal
	10	RESIST	I	0/3.3 V DC	RS: On/Off
	11	NC	-	-	Not used
	12	PAPWSIZE1	I	0/3.3 V DC	PWSW: On/Off
	13	PAPLSIZE1	I	0/3.3 V DC	PLSW: On/Off
	14	PAPLSIZE2	I	0/3.3 V DC	PLSW: On/Off
	15	PAPLSIZE3	I	0/3.3 V DC	PLSW: On/Off
	16	LMOTOCP	I	0/3.3 V DC	LM detection signal
	17	LMOTRE	ο	0/3.3 V DC	LM: On/Off
	18	PAPEMP2	I	0/3.3 V DC	PS2: On/Off
	19	PAPEMP1	I	0/3.3 V DC	PS1: On/Off
	20	LIFTFULL	I	0/3.3 V DC	LS: On/Off
	21	FANBHALF	ο	0/3.3 V DC	FM drive shift signal
	22	FANBFULL	0	0/3.3 V DC	FM: On/Off

Connector	Pin	Signal	I/O	Voltage	Description
YC9	23	LIGHTSLEEP	0	0/3.3 V DC	Sleep signal: On/Off
		N			
Connected to	24	PFPAUSE	0	0/3.3 V DC	Paper feeder control signal
engine con- nect PWB	25	PFSET	0	0/3.3 V DC	Paper feeder sleep return signal
	26	DFSET	0	0/3.3 V DC	Finisher set signal
	27	DFSEL	0	0/3.3 V DC	Finisher selection signal
	28	BRSEL	0	0/3.3 V DC	Bridge selection signal
	29	PFSEL	0	0/3.3 V DC	Paper feed selection signal
	30	EHRDY	I	0/3.3 V DC	Ready signal
	31	EHSO	0	0/3.3 V DC (pulse)	Serial communication data signal
	32	EHSI	Ι	0/3.3 V DC (pulse)	Serial communication data signal
	33	EHCLK	0	0/3.3 V DC (pulse)	Clock signal
	34	FANCHALF	0	0/3.3 V DC	FM drive shift signal
	35	FANCFULL	0	0/3.3 V DC	FM: On/Off
	36	NC	-	-	Not used
	37	ERASER_RE M(K)	0	0/24 V DC	CL-K: On/Off
	38	DLP_TH	I	Analog	DEVTH detection voltege
	39	TCSENSE(K)	I	0/3.3 V DC	TS-K: On/Off
	40	TCSENSE(M)	I	0/3.3 V DC	TS-M: On/Off
	41	TCSENSE(C)	I	0/3.3 V DC	TS-C: On/Off
	42	ERASER_RE M(COL)	0	0/3.3 V DC	CL-YCM: On/Off
	43	TCSENSE(Y)	I	0/3.3 V DC	TS-Y: On/Off
	44	GND	-	-	GROUND
	45	SDAC		0/3.3 V DC	Data
	46	GND	-	-	GROUND
	47	SCLC		0/3.3 V DC	Clock signal
	48	GND	-	-	GROUND
	49	SDAA		0/3.3 V DC	Data
	50	GND	-	-	GROUND
	51	SCLA		0/3.3 V DC	Clock signal
	52	GND	-	-	GROUND
	53	BLTHP2	I	0/3.3 V DC	BDS2: On/Off
	54	BLTHP1	1	0/3.3 V DC	BDS1: On/Off
	55	WTCFULLIN	I	Analog	WTDS detection voltage
	56	WTCFULLOU T	0	0/3.3 V DC	WTDS: On/Off

Connector	Pin	Signal	I/O	Voltage	Description
YC9	57	IDCLHP	Ι	0/3.3 V DC	IDS: On/Off
Connected to	58	3.3V0	0	3.3 V DC	3.3 V DC power output to ECPWB
engine con-	59	3.3V4	0	3.3 V DC	3.3 V DC power output to ECPWB
nect PWB	60	3.3V4	0	3.3 V DC	3.3 V DC power output to ECPWB
YC10	1	IDMOTA	0	24 V DC	IDSM: On/Off
Connected to	2	IDMOTB	0	24 V DC	IDSM: On/Off
engine con-	3	BLTREMA	0	24 V DC	TCBM: On/Off
nect PWB	4	BLTREMB	0	24 V DC	TCBM: On/Off
YC11	1	3.3V4	0	3.3 V DC	3.3 V DC power output to RFPWB
Connected to	2	RFID_SCL	0	0/3.3 V DC (pulse)	RFPWB EEPROM clock signal
RFID PWB	3	RFID_SDA	I/O	0/3.3 V DC (pulse)	RFPWB EEPROM data signal
	4	GND	-	-	GROUND
YC12	B1	LSUMOTB	0	0/24 V DC	LSUCM: Forward/Stop (Forward)
Connected to	B2	LSUMOTA	ο	0/24 V DC	LSUCM: Forward/Stop (Reverse)
LSU connect	B3	MP(K)_REM	0	0/3.3 V DC	PM: On/Off
PWB	B4	24V4	0	24 V DC	24 V DC power output to PM
	B5	MP(K)_RDY	I	0/3.3 V DC	PM ready signal
	B6	MP(M)_REM	0	0/3.3 V DC	PM: On/Off
	B7	MP(C)_REM	0	0/3.3 V DC	PM: On/Off
	B8	MP(C)_RDY	I	0/3.3 V DC	PM ready signal
	B9	VCONT(K)	0	Analog	APCPWB laser power standard voltage
	B10	MP(Y)_RDY	I	0/3.3 V DC	PM ready signal
	B11	VCONT(M)	0	Analog	APCPWB laser power standard voltage
	B12	LSU_TH(Y)	Ι	Analog	LSU thermistor signal
	B13	VCONT(Y)	0	Analog	APCPWB laser power standard voltage
	B14	GND	-	-	GROUND
	B15	VCONT(C)	0	Analog	APCPWB laser power standard voltage
	A1	3.3VIL	0	3.3 V DC	3.3 V DC power output to BDPWB
	A2	GND	-	-	GROUND
	A3	LSU_TH(K)	Ι	Analog	LSU thermistor signal
	A4	EN(K)	0	0/3.3 V DC	APCPWB laser enable signal
	A5	EN?COL)	0	0/3.3 V DC	APCPWB laser enable signal
	A6	MP(Y)_CLK	0	0/3.3 V DC (pulse)	PM clock signal
	A7	MP(Y)_REM	0	0/3.3 V DC	PM: On/Off

Connector	Pin	Signal	I/O	Voltage	Description
YC12	A8	MP(C)_CLK	0	0/3.3 V DC (pulse)	PM clock signal
Connected to	A9	MP(M)_RDY	Ι	0/3.3 V DC	PM ready signal
LSU connect	A10	MP(M)_CLK	0	0/3.3 V DC (pulse)	PM clock signal
PWB	A11	MP(K)_CLK	0	0/3.3 V DC (pulse)	PM clock signal
	A12	GND	-	-	GROUND
	A13	24V4	0	24 V DC	24 V DC power output to PM
	A14	GND	-	-	GROUND
	A15	24V4	0	24 V DC	24 V DC power output to PM
YC13	1	GND	-	-	GROUND
Connected to high voltage	2	T1KCNT	0	PWM	Primary transfer bias control voltage (Black)
PWB sub	3	T1MCNT	0	PWM	Primary transfer bias control voltage (Magenta)
	4	CLCNT	0	PWM	Cleaning bias control signal
	5	HVREM	0	0/3.3 V DC (pulse)	Transfer bias remote signal
	6	T1YCNT	0	PWM	Primary transfer bias control voltage (Yel- low)
	7	T1CCNT	0	PWM	Primary transfer bias control voltage (Cyan)
	8	24VIL	0	24 V DC	24 V DC power output to HVPWB-S
YC14	1	BRSET	I	0/3.3 V DC	BRDSW: On/Off
Connected to bridge detec- tion switch	2	GND	-	-	GROUND
YC15	B1	GND	-	-	GROUND
Connected to	B2	GND	-	-	GROUND
high voltage PWB	B3	SCNT	0	PWM	Separation control signal
	B4	T2CNT	0	PWM	Secondary transfer bias control voltage
	B5	MISENS	Ι	Analog	Chager roller AC current signal
	B6	HVREM	0	0/3.3 V DC (pulse)	Developing bias remote signal
	B7	BKSCNT	0	PWM	Developing sleeve roller bias control volt- age (Black)
	B8	BMMCNT	0	PWM	Developing magnet roller bias control voltage (Magenta)
	B9	BKMCNT	0	PWM	Developing magnet roller bias control voltage (Black)
	B10	BMSCNT	0	PWM	Developing sleeve roller bias control volt- age (Magenta)

Connector	Pin	Signal	I/O	Voltage	Description
YC15	B11	MKCNT	0	PWM	Chager roller control voltage (Black)
Connected to	B12	MMCNT	0	PWM	Chager roller control voltage (Magenta)
high voltage PWB	B13	BKBACCNT	0	PWM	Developing AC bias control voltage (Black)
	B14	HVCLKK	0	0/3.3 V DC (pulse)	Developing bias clock signal (Black)
	B15	HVCLKM	0	0/3.3 V DC (pulse)	Developing bias clock signal (Magenta)
	B16	24VIL	0	24 V DC	24 V DC power output to HVPWB
	B17	24VIL	0	24 V DC	24 V DC power output to HVPWB
	A1	CBACCNT	0	PWM	Developing AC bias control voltage (Cyan)
	A2	MBACCNT	0	PWM	Developing AC bias control voltage (Magenta)
	A3	MCCNT	0	PWM	Chager roller control voltage (Cyan)
	A4	HVCLKC	0	0/3.3 V DC (pulse)	Developing bias clock signal (Cyan)
	A5	BCSCNT	0	PWM	Developing sleeve roller bias control volt- age (Cyan)
	A6	BYMCNT	0	PWM	Developing magnet roller bias control voltage (Yellow)
	A7	BCMCNT	0	PWM	Developing magnet roller bias control voltage (Cyan)
	A8	BYSCNT	0	PWM	Developing sleeve roller bias control volt- age (Yellow)
	A9	MYCNT	0	PWM	Chager roller control voltage (Yellow)
	A10	YBACCNT	0	PWM	Developing AC bias control voltage (Yel- low)
	A11	HVCLKY	0	0/3.3 V DC (pluse)	Developing bias clock signal (Yellow)
	A12	NC	-	-	Not used
	A13	NC	-	-	Not used
	A14	NC	-	-	Not used
	A15	NC	-	-	Not used
	A16	NC	-	-	Not used
	A17	NC	-	-	Not used

Connector	Pin	Signal	I/O	Voltage	Description
YC17	1	SCANNER B1	0	0/24 V DC	ISUM drive controll signal
Connected to	2	SCANNER A2	0	0/24 V DC	ISUM drive controll signal
ISU motor,	3	SCANNER B2	0	0/24 V DC	ISUM drive controll signal
home posi- tion sensor,	4	SCANNER A1	0	0/24 V DC	ISUM drive controll signal
original	5	3.3V4	0	3.3 V DC	3.3 V DC power output to HPS
detection	6	GND	-	-	GROUND
switch, origi- nal size sen-	7	SCA_HP	I	0/3.3 V DC	HPS: On/Off
sor	8	3.3V4	0	3.3 V DC	3.3 V DC power output to ODSW
	9	GND	-	-	GROUND
	10	SCA_COVER	Ι	0/3.3 V DC	ODSW: On/Off
	11	GND	-	-	GROUND
	12	SCA_SIZE	Ι	0/3.3 V DC	OSS: On/Off
	13	5V4	0	5 V DC	5 V DC power output to OSS
YC18	1	GND	-	-	GROUND
Connected to	2	GND	-	-	GROUND
document	3	24V4	0	24 V DC	24 V DC power output to DP
processor	4	24V4	0	24 V DC	24 V DC power output to DP
	5	DP_CLK	0	0/3.3 V DC (pulse)	DP clock signal
	6	DP_SO	0	0/3.3 V DC (pulse)	Serial communication data signal
	7	DP_SEL	0	0/3.3 V DC	DP select signal
	8	DP_SI	I	0/3.3 V DC (pulse)	Serial communication data signal
	9	DP_RDY	I	0/3.3 V DC	DP ready signal
	10	DP_TMG	I	0/3.3 V DC	DPTS: On/Off
	11	DP_OPEN	I	0/3.3 V DC	DPOCS: On/Off
YC19	1	GND	-	-	GROUND
Connected to	2	RELAY	0	3.3 V DC	Relay remote
IH PWB	3	24V4	0	24 V DC	24 V DC power output to IHPWB
YC20	1	EJE_SOL_RE TURN	0	0/24 V DC	FSSOL: On/Off
Connected to	2	24V4	0	24 V DC	24 V DC power output to FSSOL
shift sole-	3	EJECT_/B	0	0/24 V DC (pluse)	EM drive control signal
noid, eject	4	EJECT_/A	0	0/24 V DC (pluse)	EM drive control signal
motor, paper full sensor,	5	EJECT_B	0	0/24 V DC (pluse)	EM drive control signal
job paper full	6	EJECT_A	0	0/24 V DC (pluse)	EM drive control signal
sensor	7	_ 3.3V4	0	3.3 V DC	3.3 V DC power output to PFS
1			1		· ·

Connector	Pin	Signal	I/O	Voltage	Description
YC20	9	EJE_FULL_U	Ι	0/3.3 V DC	PFS: On/Off
		Р			
Connected to	10	3.3V4	0	3.3 V DC	3.3 V DC power output to JEPS
shift sole- noid, eject	11	GND	-	-	GROUND
motor, paper	12	EJE_FULL_D	Ι	0/3.3 V DC	JEPS: On/Off
full sensor,		WN			
job paper full sensor					
5611501					
	1	IH_FAN2_RE	0	0/24 V DC	IHCFM: On/Off
YC21	1	M	0	0/24 V DC	
Connected to	2	GND	-	-	GROUND
IH coil fan	3	IH_FAN2_AL	I	0/3.3 V DC	IHCFM alarm signal
motor, devel-		м			
oper fan motor, con-	4	DLP_FAN_RE	0	0/24 V DC	DEVFM: On/Off
tainer fan		Μ			
motor	5	GND	-	-	GROUND
	6	CON_FAN_R EM	0	0/24 V DC	TCFM: On/Off
	7	GND	-	-	GROUND
YC22	1	FUSREMA	0	0/24 V DC	PRM: On/Off
Connected to	2	FUSREMB	0	24 V DC	3.3 V DC power output to PRM
thermistor1,	3	3.3V4	0	3.3 V DC	3.3 V DC power output to ES
thermistor2, eject sensor,	4	GND	-	-	GROUND
fuser press	5	FUSER_JAM	Ι	0/3.3 V DC	ES: On/Off
release	6	3.3V4	-	-	Not used
motor	7	GND	-	-	Not used
	8	FUSER_PRE	-	-	Not used
	9	SUBSDA	I/O	3.3 V DC	Data
	10	SUBSCL	0	3.3 V DC	Clock
	11	PR_TH	Ι	Analog	FTH detection voltage (Press roller)
	12	HR_NCTH1	Ι	Analog	FTH detection voltage (Center)
	13	HR_NCTH2	Ι	Analog	FTH detection voltage (Center)
	14	3.3V4	0	3.3 V DC	3.3 V DC power output to FTH
	15	EG_TH	Ι	Analog	FTH detection voltage (Edge)
	16	GND	-	-	GROUND
	17	ROTATION	Ι	3.3 V DC	Rotation detection

Connector	Pin	Signal	I/O	Voltage	Description
YC24	1	IH_FAN1_RE	0	0/24 V DC	IHFM: On/Off
•	-	M			
Connected to IH fan motor	2	GND	-	-	GROUND
	3	IH_FAN1_AL M	I	0/3.3 V DC	IHFM alarm signal
		1.11			
YC25	1	24VIL2	I	24 V DC	24 V DC power input from RCSW
Connected to	2	24VIL1	0	24 V DC	24 V DC power output to RCSW
right cover	3	24VIL1	0	24 V DC	24 V DC power output to FCSW
switch, front cover switch	4	24V4	I	24 V DC	24 V DC power input from FCSW
	5	3.3V0	0	3.3 V DC	3.3 V DC power output to FCSW
YC26	1	BDY	0	0/3.3 V DC (pulse)	Horizontal synchronizing signal (Yellow)
Connected to	2	BDC	0	0/3.3 V DC (pulse)	Horizontal synchronizing signal (Cyan)
main PWB	3	BDM	0	0/3.3 V DC (pulse)	Horizontal synchronizing signal (Magenta)
	4	BDBK	0	0/3.3 V DC (pulse)	Horizontal synchronizing signal (Black)
	5	NC	-	-	Not used
	6	EME_IRN	0	0/3.3 V DC	Interruption signal
	7	EME_DIR	0	0/3.3 V DC	Communication direction change signal
	8	EME_BSY	0	0/3.3 V DC	Busy signal
	9	EME_SO	I	0/3.3 V DC (pulse)	Serial communication data signal input
	10	EME_SI	0	0/3.3 V DC (pulse)	Serial communication data signal output
	11	EME_CLK	Т	0/3.3 V DC (pulse)	Clock signal
	12	PAGEST	0	0/3.3 V DC	Sub-scanning standard signal
	13	OVSYNCMON	T	0/3.3 V DC	Sub-scanning monitor signal
	14	PVSYNC	0	0/3.3 V DC (pulse)	Vertical synchronizing signal
	15	AQUA_RDY	I	0/3.3 V DC	Ready signal
	16	AQUA_SEL	0	0/3.3 V DC	Select signal
	17	AQUA_SO	I	0/3.3 V DC (pulse)	Serial communication data signal input
	18	AQUA_SI	0	0/3.3 V DC (pulse)	Serial communication data signal output
	19	AQUA_CLK	0	0/3.3 V DC (pulse)	Clock signal
	20	HYP_INT	I	0/3.3 V DC	Interruption signal
	21	HYP_SDA	0	0/3.3 V DC (pulse)	Data signal
	22	HYP_SCL	0	0/3.3 V DC (pulse)	Clock signal
	23	GND	-	-	GROUND
	24	GND	-	-	GROUND
	25	GND	-	-	GROUND
	26	GND	-	-	GROUND

Connector	Pin	Signal	I/O	Voltage	Description
YC26	27	GND	-	-	GROUND
Connected to	28	24VDOWN	I	24 V DC	24 V DC down signal
main PWB	29	3.3V4	0	0/3.3 V DC	3.3 V DC power output to MPWB
	30	3.3V4	0	0/3.3 V DC	3.3 V DC power output to MPWB
	31	3.3V0	0	0/3.3 V DC	3.3 V DC power output to MPWB
	32	5V4	0	5 V DC	5 V DC power output to MPWB
	33	24V4	0	24 V DC	24 V DC power output to MPWB
	34	24V4	0	24 V DC	24 V DC power output to MPWB
	35	LIGHT_SLEE PN	I	0/3.3 V DC	Light sleep shift signal
	36	SCAN_HLD	I	0/3.3 V DC	Scan hold signal
	37	ENG_HLD	I	0/3.3 V DC	Engine hold signal
	38	SLEEPOFF	0	0/3.3 V DC	Sleep return signal
YC28	1	FUSER_FAN_ REM	0	0/24 V DC	FUFM1: On/Off
Connected to	2	GND	-	-	GROUND
fuser fan motor	3	FUSER_FAN_ REM	0	0/24 V DC	FUFM2: On/Off
	4	GND	-	-	GROUND
YC29	1	GND	-	-	GROUND
Connected to	2	TMPDATA	I	Analog	TEMS detection voltage (Temperature)
temperature sensor	3	WETCLK0	0	0/3.3 V DC (pulse)	TEMS clock signal
	4	WETCLK1	0	0/3.3 V DC (pulse)	TEMS clock signal
	5	HUMDATA	1	Analog	TEMS detection voltage (Humidity)

### 2-3-3 Power source PWB

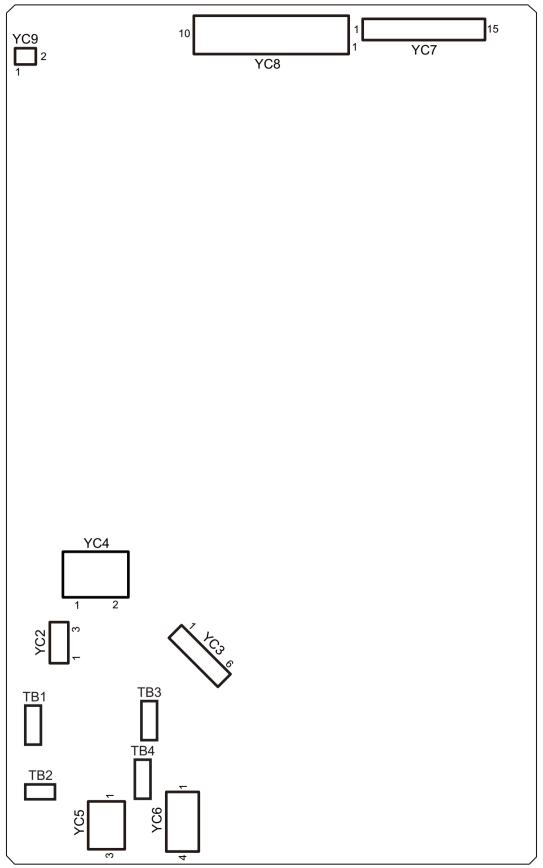
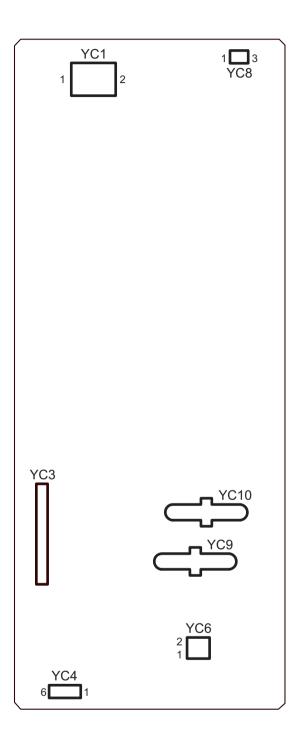


Figure 2-3-3 Main PWB silk-screen diagram

Connector	Pin	Signal	I/O	Voltage	Description
ТВ	TB1	LIVE	I	100 V AC	AC power input
Connected to	TB2	NEUTRAL	I	100 V AC	AC power input
AC inlet,	TB3	LIVE(SW)	0	100 V AC	AC power output to MSW
main switch	TB4	LIVE(SW)	I	100 V AC	AC power input from MSW
YC2	1	CH_SW IN	0	100 V AC	AC power output to CHSW
Connected to	2	NC	-	-	Not used
cassette	3	CH_SW OUT	I	100 V AC	AC power input from CHSW
heater switch					
YC3	1	LIVE	0	100 V AC	AC power output to PFCH
Connected to	2		0	100 V AC	AC power output to CH
paper feeder,	2	NC		100 V AC	Not used
cassette	3 4	NC	-	-	Not used
heater	4 5	NEUTRAL	-	- 100 V AC	AC power output to PFCH
			0	100 V AC	
	6	NEUTRAL	0	100 V AC	AC power output to CH
YC4	1	LIVE	0	100 V AC	AC power output to IHPWB
Connected to	2	NEUTRAL	ο	100 V AC	AC power output to IHPWB
IH PWB					
YC5	1	LIVE	0	100 V AC	AC power output to PSPWB-S
Connected to	2	NC	-	-	Not used
power source PWB sub	3	NEUTRAL	0	100 V AC	AC power output to PSPWB-S
1 100 300					
YC6	1	LIVE	0	100 V AC	Option AC power output
Connected to	2	NC	-	-	Not used
AC outlet	3	NC	-	-	Not used
	4	NEUTRAL	0	100 V AC	Option AC power output

Connector	Pin	Signal	I/O	Voltage	Description
YC7	1	+5V2	0	5 V DC	5 V DC power output to MPWB
Connected to			5 V DC	5 V DC power output to MPWB	
main PWB			0	5 V DC	5 V DC power output to MPWB
	4	+5V2	0	5 V DC	5 V DC power output to MPWB
	5	+5V2	0	5 V DC	5 V DC power output to MPWB
	6	+5V2	0	5 V DC	5 V DC power output to MPWB
	7	+5V2	0	5 V DC	5 V DC power output to MPWB
	8	GND	-	-	GROUND
	9	GND	-	-	GROUND
	10	GND	-	-	GROUND
	11	GND	-	-	GROUND
	12	GND	-	-	GROUND
	13	GND	-	-	GROUND
	14	GND	-	-	GROUND
	15	SLEEP1	I	0/3.3 V DC	Sleep 1 control signal: On/Off
YC8	1	+24V2	0	24 V DC	24 V DC power output to ECPWB
Connected to	2	+24V2	0	24 V DC	24 V DC power output to ECPWB
engine PWB,	3	GND	-	-	GROUND
engine con- nect PWB	4	GND	-	-	GROUND
HECLE WD	5	GND	-	-	GROUND
	6	GND	-	-	GROUND
	7	GND	-	-	GROUND
	8	+24V2	0	24 V DC	24 V DC power output to EPWB
	9	+24V2	0	24 V DC	24 V DC power output to EPWB
	10	+24V2	0	24 V DC	24 V DC power output to EPWB
YC9	1	NC	-	-	Not used
Connected to engine con- nect PWB	2	SLEEP2	I	0/3.3 V DC	Sleep 2 control signal: On/Off

## 2-3-4 IH PWB





Connector	Pin	Signal	I/O	Voltage	Description
YC1	1	IH_NEUTRAL	Ι	220 V AC	AC power input
Connected to power source PWB	2	IH_LIVE	Ι	220 V AC	AC power input
YC3	1	TH2	-	Analog	Low side IGBT case temperature
Connected to	2	TH1	-	Analog	High side IGBT case temperature
IH control PWB	3	AC_CURREN T	-	Analog	AC input current
	4	AC_VOLTAGE	-	Analog	AC input voltage
	5	OUT_CURRE	-	Analog	Output current
	6	IH_REM	-	0/5 V DC	IH: On/off
	7	ROTATION	-	0/5 V DC	TCBM control signal
	8	RXD	-	0/5 V DC (pulse)	Serial communication data signal input
	9	TXD	-	0/5 V DC (pulse)	Serial communication data signal output
	10	S1	-	0/5 V DC	For soft distinction
	11	IGBT1	-	0/5 V DC	gate output
	12	IGBT2	-	0/5 V DC	gate output
	13	S2	-	0/5 V DC	For soft distinction
	14	ERROR	-	0/5 V DC	Error signal
	15	5V	-	5 V DC	5 V DC power output to IHCPWB
	16	GND	-	-	Ground
YC4	1	SGND	-	-	Ground
Connected to	2	3.3V4	Ι	3.3 V DC	3.3 V DC power input from EPWB
engine PWB	3	IH_REM	Ι	0/3.3 V DC	IH: On/off
	4	ROTATION	Ι	0/3.3 V DC	TCBM control signal
	5	RXD	Ι	0/3.3 V DC (pulse)	Serial communication data signal input
	6	TXD	0	0/3.3 V DC (pulse)	Serial communication data signal output
YC6	1	+15V-1	0	15 V DC	Control power supply
Connected to thermostat	2	+15V-2	Ι	15 V DC	Gate drive power supply
YC8	1	24VIL	I	24 V DC	24 V DC power input from EPWB
Connected to	2	RELAY	Ι	0/3.3 V DC	RSW: On/Off
engine PWB	3	PGND	-	-	Ground

Connector	Pin	Signal	I/O	Voltage	Description
YC9	1	IH_OUT1	0	390 V DC	Resonance circuit output
Connected to					
IH coil					
YC10	1	IH_OUT2	0	1000 V DC	Resonance circuit output
Connected to					
IH coil					

**CAUTION:** Connectors YC1, YC3, YC6, YC9 and YC10 are not grounded, therefore, use caution not to damage the connectors during measurement of voltages.

# 2-3-5 Operation panel PWB main

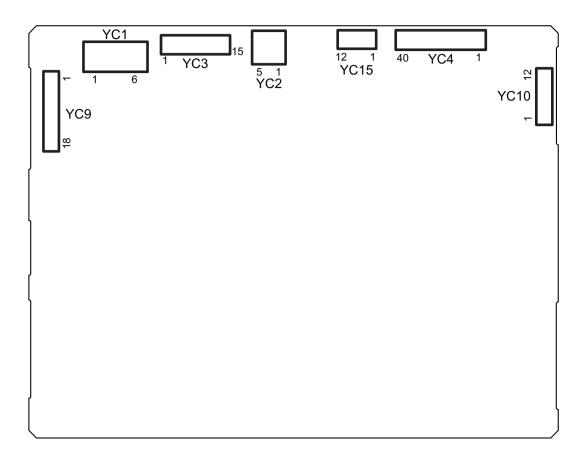


Figure 2-3-5 Operation panel PWB main silk-screen diagram

Connector	Pin	Signal	I/O	Voltage	Description
YC1	1	5V2	I	5 V DC	5 V DC power intput from MPWB
Connected to	2	5V2	I	5 V DC	5 V DC power input from MPWB
main PWB	3	GND	-	-	Ground
	4	GND	-	-	Ground
YC2	1	VBUS	I	5 V DC	5 V DC power input
Connected to	2	DN	I/O	LVDS	USB data signal
main PWB	3	DP	I/O	LVDS	USB data signal
	4	ID	-	-	Not used
	5	GND	-	-	Ground
YC3	1	GND	-	-	Ground
Connected to main PWB	2	SECOND_TR AY_S	Ι	0/3.3 V DC	JEPS: On/Off
	3	BEEP_POWE RON	Ι	0/3.3 V DC	Sleep return signal 0
	4	ENERGY_SA VE	Ι	0/3.3 V DC	Energy save signal
	5	SUSPEND_P ower	Ι	3.3V DC	3.3 V DC power input from MPWB
	6	LED_MEMOR Y	Ι	0/3.3 V DC	Memory LED control signal
	7	LED_ATTENT ION	Ι	0/3.3 V DC	Attention LED control signal
	8	LED_PROCE SSING	I	0/3.3 V DC	Processing LED control signal
	9	SHUTDOWN	Ι	0/3.3 V DC	24 V down signal
	10	LIGHTOFF_P OWER	I	0/3.3 V DC	Sleep return signal 1
	11	AUDIO	I	Analog	Voice output signal
	12	PANEL_RESE T	I	0/3.3 V DC	Reset signal
	13	INT_POWER KEY	0	0/3.3 V DC	Power key: On/Off
	14	PANEL_STAT US	0	0/3.3 V DC	Operation panel status signal
	15	GND	-	-	Ground

Connector	Pin	Signal	I/O	Voltage	Description
YC4	1	GND	-	-	Ground
Connected to	2	GND	-	-	Ground
LCD relay	3	СК	0	0/3.3 V DC(pulse)	Clock signal
PWB	4	GND	-	-	Ground
	5	GND	-	-	Ground
	6	SC	0	0/3.3 V DC	LCD Control signal
	7	R0	0	0/3.3 V DC	LCD Control signal
	8	R1	0	0/3.3 V DC	LCD Control signal
	9	R2	0	0/3.3 V DC	LCD Control signal
	10	GND	-	-	Ground
	11	R3	0	0/3.3 V DC	LCD Control signal
	12	R4	0	0/3.3 V DC	LCD Control signal
	13	R5	0	0/3.3 V DC	LCD Control signal
	14	GND	-	-	Ground
	15	G1	0	0/3.3 V DC	LCD Control signal
	16	G1	0	0/3.3 V DC	LCD Control signal
	17	G2	0	0/3.3 V DC	LCD Control signal
	18	GND	-	-	Ground
	19	G3	0	0/3.3 V DC	LCD Control signal
	20	G4	0	0/3.3 V DC	LCD Control signal
	21	G5	0	0/3.3 V DC	LCD Control signal
	22	GND	-	-	Ground
	23	B0	0	0/3.3 V DC	LCD Control signal
	24	B1	0	0/3.3 V DC	LCD Control signal
	25	B2	0	0/3.3 V DC	LCD Control signal
	26	GND	-	-	Ground
	27	B3	0	0/3.3 V DC	LCD Control signal
	28	B4	0	0/3.3 V DC	LCD Control signal
	29	B5	0	0/3.3 V DC	LCD Control signal
	30	GND	-	-	Ground
	31	H_SYNC	0	0/3.3 V DC(pulse)	Horizontal synchronizing signal
	32	GND	-	-	Ground
	33	V_SYNC	0	0/3.3 V DC(pulse)	Vertical synchronizing signal
	34	GND	-	-	Ground
	35	ENB	0	0/3.3 V DC	LCD enable signal
	36	СМ	0	0/3.3 V DC	LCD mode switch signal
	37	3.3V	0	3.3V DC	3.3 V DC power output to LCDRPWB

Connector	Pin	Signal	I/O	Voltage	Description
YC4	38	3.3V	0	3.3 V DC	3.3 V DC power output to LCDRPWB
Connected to	39	3.3V	0	3.3 V DC	3.3 V DC power output to LCDRPWB
LCD relay PWB	40	3.3V	0	3.3 V DC	3.3 V DC power output to LCDRPWB
YC9	1	A_LED	0	0/3.3 V DC	Memory LED control signal
Connected to	2	M_LED	0	0/3.3 V DC	Attention LED control signal
operation panel PWB	3	P_LED	0	0/3.3 V DC	Processing LED control signal
left	4	KEY4	I	0/3.3 V DC(pulse)	Operation panel key scan return signal 4
	5	INT_POWER KEY_N	0	0/5 V DC	Power key: On/Off
	6	KEY3	I	0/3.3 V DC(pulse)	Operation panel key scan return signal 3
	7	KEY2	I	0/3.3 V DC(pulse)	Operation panel key scan return signal 2
	8	KEY1	I	0/3.3 V DC(pulse)	Operation panel key scan return signal 1
	9	LED1	0	0/3.3 V DC(pulse)	Operation panel LED display drive signal
	10	3.3V0	0	3.3V DC	3.3 V DC power output to OPPWB-L
	11	LED0	0	0/3.3 V DC(pulse)	Operation panel LED display drive signal 0
	12	KEY0	I	0/3.3 V DC(pulse)	Operation panel key scan return signal 0
	13	SCAN4	0	0/3.3 V DC(pulse)	Scan signal 4
	14	SCAN3	0	0/3.3 V DC(pulse)	Scan signal 3
	15	SCAN2	0	0/3.3 V DC(pulse)	Scan signal 2
	16	SCAN1	0	0/3.3 V DC(pulse)	Scan signal 1
	17	SCAN0	0	0/3.3 V DC(pulse)	Scan signal 0
	18	GND	-	-	Ground

Connector	Pin	Signal	I/O	Voltage	Description
YC10	1	S_LED	0	0/3.3 V DC	Memory LED control signal
Connected to operation	2	LED4	0	0/3.3 V DC(pulse)	Operation panel LED display drive signal 4
panel PWB right	3	LED2	0	0/3.3 V DC(pulse)	Operation panel LED display drive signal 2
	4	KEY5	Ι	0/3.3 V DC(pulse)	Operation panel key scan return signal 5
	5	SCAN3	0	0/3.3 V DC(pulse)	Scan signal 3
	6	SCAN2	0	0/3.3 V DC(pulse)	Scan signal 2
	7	SCAN1	0	0/3.3 V DC(pulse)	Scan signal 1
	8	KEY7	Ι	0/3.3 V DC(pulse)	Operation panel key scan return signal 7
	9	LED3	0	0/3.3 V DC(pulse)	Operation panel LED display drive signal 3
	10	KEY6	Ι	0/3.3 V DC(pulse)	Operation panel key scan return signal 6
	11	SCAN0	0	0/3.3 V DC(pulse)	Scan signal 0
	12	GND	-	-	Ground
YC15	1	GND	-	-	Ground
Connected to	2	SCK	0	0/3.3 V DC(pulse)	Clock signal
LCD relay	3	SDI	0	0/3.3 V DC(pulse)	Serial communication data signal
PWB	4	SPC_CS1N	0	0/3.3 V DC	LCD control signal
	5	SHUT	0	0/3.3 V DC	LCD control signal
	6	LCD_RESB	0	0/3.3 V DC	LCD control signal
	7	Y1(T)	Ι	Analog	Touch panel Y+Positional signal
	8	X2(L)	Ι	Analog	Touch panel X+Positional signal
	9	Y2(B)	Ι	Analog	Touch panel Y-Positional signal
	10	X1(R)	Ι	Analog	Touch panel X-Positional signal
	11	LED_A(+)	0	0/3.3 V DC	LED control signal
	12	LED_C(-)	Ι	0/3.3 V DC	LED control signal

## 2-3-6 DP main PWB

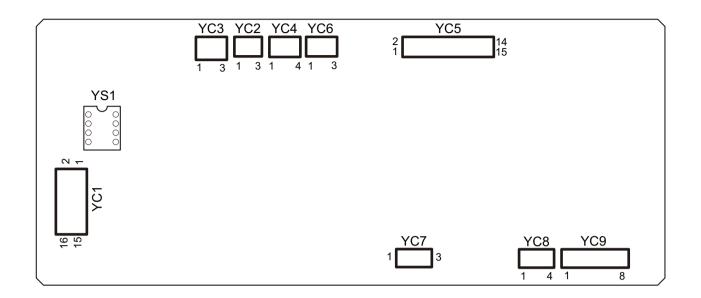


Figure 2-3-6 DP main PWB silk-screen diagram

Connector	Pin	Signal	I/O	Voltage	Description
YC1	1	FG	-	-	Ground
Connected to	2	ENG_TMG	0	0/3.3 V DC	DPTS: On/Off
engine PWB	3	ENG_RDY	0	0/3.3 V DC	Ready signal
	4	ENG_SEL	Ι	0/3.3 V DC	Select signal
	5	ENG_CLK	Ι	0/3.3 V DC(pulse)	Clock signal
	6	ENG_SI	I	0/3.3 V DC(pulse)	Serial communication data signal
	7	ENG_SO	0	0/3.3 V DC(pulse)	Serial communication data signal
	8	ENG_OPEN	0	0/3.3 V DC	DPOCS: On/Off
	9	NC	-	-	Not used
	10	GND	-	-	Ground
	11	GND	-	-	Ground
	12	GND	-	-	Ground
	13	NC	-	-	Not used
	14	+24V	0	24 V DC	24 V DC power input from EPWB
	15	+24V	0	24 V DC	24 V DC power input from EPWB
	16	+24V	0	24 V DC	24 V DC power input from EPWB
YC2	1	ANODE	0	3.3 V DC	3.3 V DC power output to DPOLS
Connected to	2	GND	-	-	Ground
DP original size length sensor	3	LS_SW	I	0/3.3 V DC	DPOLS: On/Off
YC3	1	ANODE	0	3.3 V DC	3.3 V DC power output to DPOS
Connected to	2	GND	-	-	Ground
DP original sensor	3	SET_SW	I	0/3.3 V DC	DPOS: On/Off
YC4	1	WID1	I	0/3.3 V DC	DPOWS: On/Off
Connected to	2	GND	-	-	Ground
DP original	3	WID2	I	0/3.3 V DC	DPOWS: On/Off
size width sensor	4	WID3	I	0/3.3 V DC	DPOWS: On/Off

Connector	Pin	Signal	I/O	Voltage	Description
YC5	1	ANODE	0	3.3 V DC	3.3 V DC power output to DPPFS
Connected to	2	GND	-	-	Ground
DP paper	3	FEED SW	I	0/3.3 V DC	DPPFS: On/Off
feed sensor,DP	4	ANODE	0	3.3 V DC	3.3 V DC power output to DPRS
registration	5	GND	-	-	Ground
sensor,DP	6	REGIST_SW	I	0/3.3 V DC	DPRS: On/Off
open/close	7	ANODE	0	3.3 V DC	3.3 V DC power output to DPOCS
sensor,DP switchback	8	GND	-	-	Ground
sensor and	9	DP_OPENSW	I	0/3.3 V DC	DPOCS: On/Off
DP timing	10	ANODE	0	3.3 V DC	3.3 V DC power output to DPSBS
sensor	11	GND	-	-	Ground
	12	HP_SW	I	0/3.3 V DC	DPSBS: On/Off
	13	– ANODE	ο	3.3 V DC	3.3 V DC power output to DPTS
	14	GND	_	-	Ground
	15	TMG_SW		0/3.3 V DC	DPTS: On/Off
	10				
YC6	1	NC	-	-	Not used
Connected to	2	GND	-	-	Ground
DP LED	3	LED_REM	0	0/3.3 V DC	LED control signal
PWB					
YC7	1	+24V	0	24 V DC	24 V DC power output to DPILSW
Connected to	2	GND	-	-	Ground
DP interlock switch	3	+R24V	I	24 V DC	24 V DC power input from DPILSW
YC8	1	FEED_CL	0	0/24 V DC	DPPFCL: On/Off
Connected to	2	+R24V	0	24 V DC	24 V DC power output to DPPFCL
DP paper	3	REGIST_CL	0	0/24 V DC	DPRCL: On/Off
feed clutch and DP	4	+R24V	0	24 V DC	24 V DC power output to DPRCL
registration					
clutch					
YC9	1	CNVYBN	0	0/24 V DC(pulse)	DPPFM drive control signal
Connected to	2	CNVYAN	0	0/24 V DC(pulse)	DPPFM drive control signal
DP paper	3	CNVY_+A	0	0/24 V DC(pulse)	DPPFM drive control signal
feed motor and DP	4	CNVY_+B	0	0/24 V DC(pulse)	DPPFM drive control signal
switchback	5	JNCBN	0	0/24 V DC(pulse)	DPSBM drive control signal
motor	6	JNCAN	0	0/24 V DC(pulse)	DPSBM drive control signal
	7	JNC_+A	0	0/24 V DC(pulse)	DPSBM drive control signal
	-	—			•

# 2-4-1 Appendixes

### (1) Maintenance kits

Mainte	Parts No.	Alternative	
Name used in service	Name used in parts list	Parts No.	part No.
MK-895A/MAINTENANCE	MK-895A/MAINTENANCE KIT	1702K00UN1	072K00U1
KIT			
(200,000 sheets)			
Transfer roller unit	HOLDER TRANSFER ASSY	-	-
Drum unit	DRUM UNIT MK	-	-
Developer unit K	DLP UNIT BK MK	-	-
Intermediate transfer unit	IMAGE UNIT MK	-	-
Fuser unit	FUSER UNIT MK	-	-
Primary feed unit	PRIMARY FEED ASS'Y	-	-
MP separation pad	PAD SEPARATION ASSY SP	-	-
MP paper feed roller	ROLLER MPF ASSY SP	-	-
MK-895B/MAINTENANCE	MK-895B/MAINTENANCE KIT	1702K00UN0	072K00U0
KIT			
(200,000 sheets)			
Drum unit	DRUM UNIT	-	-
Developer unit C	DLP UNIT C	-	-
Developer unit M	DLP UNIT M	-	-
Developer unit Y	DLP UNIT Y	-	-
MK-470/MAINTENANCE KIT	MK-470/MAINTENANCE KIT	1703M80UN0	073M80UN
(150,000 sheets)			
DP paper feed roller	PAPER FEED ASSY SP	-	-
DP separation pullay cover	GUIDE RETARD ASSY SP	-	-
DP separation pullay	HOLDER RETARD ASSY SP	-	-

### (2) Repetitive defects gauge

 First occurrence of defect
<ul> <li>37.7 mm/1 1/2" Chager roller</li> <li>46.5 mm/1 13/16" Left registration roller</li> <li>50.3 mm/2" Developing roller</li> </ul>
 <ul> <li>62.0 mm/2 7/16" Right registration roller</li> <li>65.7 mm/2 9/16" Transfer roller</li> </ul>
 94.2 mm/3 11/16" Drum/Press roller
 →— 125.7 mm/4 15/16" Heat roller

#### (3) Firmware environment commands

The printer maintains a number of printing parameters in its memory. These parameters may be changed permanently with the FRPO (Firmware RePrOgram) commands.

This section provides information on how to use the FRPO command and its parameters using examples.

#### Using FRPO commands for reprogramming the firmware

The current settings of the FRPO parameters are listed as the optional values on the service status page.

Note: Before changing any FRPO parameters, print out a service status page, so you will know the parameter values before the changes are made. To return FRPO parameters to their factory default values, send the FRPO INIT (FRPO-INITialize) command.(!R! FRPO INIT; EXIT;)

The FRPO command is sent to the printer in the following sequence: !R! FRPO parameter, value; EXIT; Example: Changing emulation mode to PC-PR201/65A !R! FRPO P1, 11; EXIT;

#### **FRPO** parameters

Item	FRPO	Setting values	Factory setting
Default pattern resolution	B8	0: 300 dpi 1: 600 dpi	0
Copy count	C0	Number of copies to print:1-999	1
Page orientation	C1	0: Portrait 1: Landscape	0
Default font No. *	C2	Middle two digits of power-up font	0
	C3	Last two digits of power-up font	0
	C5	First two digits of power-up font	0
PCL font switch	C8	0:HP compatibility mode (Characters higher than 127 are not printed.) 32:Conventional mode (Characters higher than 127 are printed. Supported symbol sets: ISO- 60 Norway [00D], ISO-15 Italian [00I], ISO-11 Sweden [00S], ISO-6 ASCII [00U], ISO-4 U.K. [01E], ISO-69 France [01F], ISO-21 Germany [01G], ISO-17 Spain [02S], Symbol [19M] <sup>a</sup> )	0
Total host buffer size	H8	0 to 99 in units of the size defined by FRPO S5	5
Form feed time-out value	H9	Value in units of 5 seconds (0 to 99).	6
Duplex binding	N4	0: Off 1: Long edge 2: Short edge	0
Sleep timer time-out time	N5	1 to 240 minutes [0: Off]	15
Ecoprint level	N6	0: Off 2: On	0

Item	FRPO	Setting values	Factory setting
Default emulation mode	P1	6: PCL 6 9: KPDL	9(U.S.A) or 6(Euro and other)
Carriage-return action *	P2	0: Ignores 0x0d 1: Carriage-return 2: Carriage-return+linefeed	1
Linefeed action *	P3	0: Ignores 0x0d 1: Linefeed 2: Linefeed+carriage-return	1
Automatic emulation sensing (For KPDL3)	P4	0: AES disabled 1: AES enabled	1(U.S.A) or 0(Euro and other)
Automatic emulation switching trigger (For KPDL3)	P7	<ul> <li>0: Page eject commands</li> <li>1: None</li> <li>2: Page eject and prescribe EXIT</li> <li>3: Prescribe EXIT</li> <li>4: Formfeed (^L)</li> <li>6: Page eject, prescribe EXIT and formfeed</li> <li>10: Page eject commands; if AES fails, resolves to KPDL</li> </ul>	11(U.S.A) or 10(Euro and other)
Command recognition character	P9	ASCII code of 33 to 126	82 (R)
Default stacker	R0	1 (inner tray) 3 5	1

Item	FRPO	Setting values	Factory setting
Default paper size	R2	0: Size of the default paper cassette (See R4.) 1: Monarch (3-7/8 × 7-1/2 inches) 2: Business (4-1/8 × 9-1/2 inches) 3: International DL (11 × 22 cm) 4: International C5 (16.2 × 22.9 cm) 5: Executive (7-1/4 × 10-1/2 inches) 6: US Letter (8-1/2 × 11 inches) 7: US Legal (8-1/2 × 14 inches) 8: A4 (21.0 × 29.7 cm) 9: JIS B5 (18.2 × 25.7 cm) 10: A3 (29.7 ' 42 cm) 11: B4 (25.7 ' 36.4 cm) 12: US Ledger (11 ' 17 inches) 13: ISO A5 14: A6 (10.5 × 14.8 cm) 15: JIS B6 (12.8 × 18.2 cm) 16: Commercial #9 (3-7/8 × 8-7/8 inches) 17: Commercial #6 (3-5/8 × 6-1/2 inches) 18: ISO B5 (17.6 × 25 cm) 19: Custom (11.7 × 17.7 inches) 30: C4 (22.9 ' 32.4 cm) 31: Hagaki (10 × 14.8 cm) 32: Ofuku-hagaki (14.8 × 20 cm) 33: Officio II 39: 8K 40: 16K 42: 8.5 × 13.5 inches 50: Statement 51: Folio 52: Youkei 2 53: Youkei 4	0
Default cassette	R4	0: MP tray 1: Cassette 1 2: Cassette 2 3: Cassette 3	1
MP tray paper size	R7	Same as the R2 values except: 0	6(U.S.A) or 8(Euro and other)
A4/letter equation	S4	0: Off 1: On	1
Host buffer size	S5	0: 10kB (x H8) 1: 100kB (x H8) 2: 1024kB (x H8)	1
RAM disk size	S6	1 to 1024 MB	400
RAM disk mode	S7	0: Off 1: On	0

Item	FRPO	Setting values	Factory setting
Wide A4	T6	0: Off 1: On	0
Line spacing *	U0	Lines per inch (integer value)	6
Line spacing *	U1	Lines per inch (fraction value)	0
Character spacing *	U2	Characters per inch (integer value)	10
Character spacing *	U3	Characters per inch (fraction value)	0
Country code	U6	0: US-ASCII 1: France 2: Germany 3: UK 4: Denmark 5: Sweden 6: Italy 7: Spain 8: Japan 9: US Legal 10: IBM PC-850 (Multilingual) 11: IBM PC-860 (Portuguese) 12: IBM PC-863 (Canadian French) 13: IBM PC-865 (Norwegian) 14: Norway 15: Denmark 2 16: Spain 2 17: Latin America 21: US ASCII (U7 = 50 SET) 77: HP Roman-8 (U7 = 52 SET)	41
Code set at power up in daisy- wheel emulation	U7	0: Same as the default emulation mode (P1) 1: IBM 6: IBM PC-8 50: US ASCII (U6 = 21 SET) 52: HP Roman-8 (U6 = 77 SET)	53
Font pitch for fixed pitch scalable	U8	Integer value in cpi: 0 to 99	10
font	U9	Fraction value in 1/100 cpi: 0 to 99	0
Font height for the default scal-	V0	Integer value in 100 points: 0 to 9	0
able font *	V1	Integer value in points: 0 to 99	12
	V2	Fraction value in 1/100 points: 0, 25, 50, 75	0
Default scalable font *	V3	Name of typeface of up to 32 characters, enclosed with single or double quotation marks	Courier

ltem	FRPO	Setting values	Factory setting
Default weight	V9	0: Courier = darkness	5
(courier and letter Gothic)		Letter Gothic = darkness	
		1: Courier = regular	
		Letter Gothic = darkness	
		4: Courier = darkness	
		Letter Gothic = regular	
		5: Courier = regular	
		Letter Gothic = regular	
Color mode	W1	0: Monochromo (grovecelo)	1
	VVI	0: Monochrome (grayscale) 1: Color (CMYK)	ľ
Gloss mode	W6	0: Low (normal)	0
		1: High	
Paper type for the MP tray	X0	1: Plain 1	1
		2: Transparency	
		3: Preprinted	
		4: Label	
		5: Bond	
		6: Recycle	
		7: Vellum	
		9: Letterhead	
		10: Color	
		11: Prepunched	
		12: Envelope	
		13: Cardstock	
		16: Thick	
		17: High quality	
		21: Custom1	
		22: Custom2	
		23: Custom3	
		24: Custom4	
		25: Custom5	
		26: Custom6	
		27: Custom7	
		28: Custom8	

Item	FRPO	Setting values	Factory setting
Paper type for paper cassettes 1	X1	1: Plain 3: Preprinted 5: Bond 6: Recycled 9: Letterhead 10: Color 11: Prepunched 17: High quality 21: Custom1 22: Custom2 23: Custom3 24: Custom4 25: Custom5 26: Custom6 27: Custom7 28: Custom8	1
Paper type for paper cassettes 2 to 4	X2 X3	1: Plain 3: Preprinted 5: Bond 6: Recycled 9: Letterhead 10: Color 11: Prepunched 17: High quality 21: Custom1 22: Custom2 23: Custom3 24: Custom4 25: Custom5 26: Custom6 27: Custom7 28: Custom8	1
PCL paper source	X9	<ul><li>0: Performs paper selection depending on media type.</li><li>1: Performs paper selection depending on paper sources.</li></ul>	0
Automatic continue for 'Press GO'	Y0	0: Off 1: On	0
Automatic continue timer	Y1	Number from 0 to 99 in increments of 5 sec- onds	6 (30 secons)
Error message for device error	Y3	0: Not detect 1: Detect	0

Item	FRPO	Setting values	Factory setting
Duplex operation for specified paper type (Prepunched, Preprintedand Let- terhead)	Y4	0: Off 1: On	0
Default operation for PDF direct printing	Y5	<ol> <li>O: Enlarges or reduces the image to fit in the current paper size. Loads paper from the current paper cassette.</li> <li>Through the image. Loads paper which is the same size as the image.</li> <li>Enlarges or reduces the image to fit in the current paper size. Loads Letter, A4 size paper depending on the image size.</li> <li>Through the image. Loads Letter, A4 size paper depending on the image size.</li> <li>Through the image. Loads paper from the current paper cassette.</li> <li>Through the image. Loads Letter, A4 size paper depending on the image size.</li> <li>Through the image. Loads Letter, A4 size paper depending on the image size.</li> <li>Through the image. Loads Letter, A4 size paper depending on the image size.</li> <li>Through the image. Loads Letter, A4 size paper depending on the image size.</li> <li>Enlarges or reduces the image to fit in the current paper size. Loads Letter, A4 size paper depending on the image size.</li> </ol>	0
e-MPS error	Y6	<ul><li>0:Does not print the error report and display the error message.</li><li>1:Prints the error report.</li><li>2:Displays the error message.</li><li>3:Prints the error report and displays the error message.</li></ul>	3

a. Characters higher than 127 are printed regardless of the C8 value. However, setting C8 to 0 does not print character code 160.

# (4) Chart of image adjustment procedures

Adjusting	ltem	Imaga	Description	Ma	aintenance mode	Original	Page	
order	nem	Image	Description	Item No.	Mode	Original	Faye	
1	Adjusting the magnification in the main scanning direction (printing adjustment)			U053	POLYGON	U053 test pattern	P.1-3-26	
2	Adjusting the magnification in the auxiliary scanning direction (printing adjustment)		Drive motor speed adjustment	U053	MAIN	U053 test pattern	P.1-3-26	
3	Adjusting the center line of the MP tray (printing adjustment)		Adjusting the LSU print start timing	U034	LSUOUT LEFT (MPT)	U034 test pattern	P.1-3-21	
4	Adjusting the center line of the cas- settes (printing adjustment)		Adjusting the LSU print start timing	U034	LSUOUT LEFT (CASSETTE 1) LSUOUT LEFT (CASSETTE 2) LSUOUT LEFT (CASSETTE 3)	U034 test pattern	P.1-3-21	
5	Adjusting the leading edge registra- tion of the MP tray (printing adjustment)	*	Registration motor turning on timing (secondary paper feed start timing)	U034	LSUOUT TOP MPT(L) LSUOUT TOP MPT(S)	U034 test pattern	P.1-3-21	
6	Adjusting the leading edge registra- tion of the cassette (printing adjustment)		Registration motor turning on timing (secondary paper feed start timing)	U034	LSUOUT TOP CASSETTE(L) SUOUT TOP CASSETTE(S)	U034 test pattern	P.1-3-21	
7	Adjusting the leading edge margin (printing adjustment)	*	LSU illumination start timing	U402	LESD	U402 test pattern	P.1-3-72	
8	Adjusting the trailing edge margin (printing adjustment)	*	LSU illumination end timing	U402	TRAIL	U402 test pattern	P.1-3-72	
9	Adjusting the left and right margins (printing adjustment)		LSU illumination start/end timing	U402	A MARGIN C MARGIN	U402 test pattern	P.1-3-72	
10	Adjusting magnification of the scanner in the main scanning direc- tion (scanning adjustment)		Data processing	U065 U070	Y SCAN ZOOM Y SCAN ZOOM	Test chart	P.1-3-29 P.1-3-35	

Remarks
To make an adjustment for duplex copying, select LSUOUT LEFT (DUPLEX).
Cassette 1: select Center (CASSETTE 1) Cassette 2: select Center (CASSETTE 2) Cassette 3: select Center (CASSETTE 3)
To make an adjustment for duplex copying, select LSUOUT TOP DUPLEX. L: PAPER WIDTH 218mm or more S: PAPER WIDTH less than 218mm
L: PAPER WIDTH 218mm or more S: PAPER WIDTH less than 218mm
U065: For copying an original placed on the platen. U070: For copying originals from the DP.

Adjusting	ltem	Image Descrip	Imaga	Imaga	Imaga	Imaga	Description	M	aintenance mode	Original	Paga	Remarks
order	item		Description	Item No.	Mode	Original	Page	Remarks				
	Adjusting magnification of the scanner in the auxiliary scanning		Original scanning speed	U065	X SCAN ZOOM	Test chart	P.1-3-29	U065: For copying an original placed on the platen.				
11	direction (scanning adjustment)			U070	X SCAN ZOOM		P.1-3-35	U070: For copying originals from the DP.				
12	Adjusting the center line (scanning adjustment)	← →	Adjusting the original scan data (image adjustment)	U067	FRONT ROTATE	Test chart	P.1-3-32	U067: For copying an original placed on the platen. To make an adjustment for rotate copying, select ROTATE.				
12				U072	FRONT BACK		P.1-3-38	U072: For copying originals from the DP. To make an adjustment for duplex copying, select BACK.				
13	Adjusting the leading edge registra- tion (scanning adjustment)	*	Original scan start timing	U066	FRONT ROTATE	Test chart	P.1-3-31	U066: For copying an original placed on the platen. To make an adjustment for trailing edge registra- tion, select ROTATE.				
				U071	FRONT HEAD BACK HEAD		P.1-3-36	U071: For copying originals from the DP. To make an adjustment for duplex copying, select BACK HEAD.				
	Adjusting the leading edge margin (scanning adjustment)	*	Adjusting the original scan data (image adjustment)	U403	B MARGIN	Test chart	P.1-3-73	U403: For copying an original placed on the contact glass				
14				U404	B MARGIN		P.1-3-74	U404: For copying originals from the DP.				
	Adjusting the trailing edge margin (scanning adjustment)		Adjusting the original scan data (image adjustment)	U403	D MARGIN	Test chart	P.1-3-73	U403: For copying an original placed on the contact glass				
15		*		U404	D MARGIN		P.1-3-74	U404: For copying originals from the DP.				
	Adjusting the left and right margins (scanning adjustment)		Adjusting the original scan data (image adjustment)	U403	A MARGIN C MARGIN	Test chart	P.1-3-73	U403: For copying an original placed on the contact glass				
16				U404	A MARGIN C MARGIN		P.1-3-74	U404: For copying originals from the DP.				

When maintenance item U411 (Automatic adjustment in the scanner) is run using the specified original (P/N 7505000005), the following adjustments are automatically made:

Adjusting the scanner magnification (U065) Adjusting the scanner leading edge registration (U066)

Adjusting the scanner center line (U067)

When maintenance item U411 (Automatic adjustment in the DP) is run using the specified original (P/N 303LJ57010),

the following adjustments are automatically made:

Adjusting the DP magnification (U070)

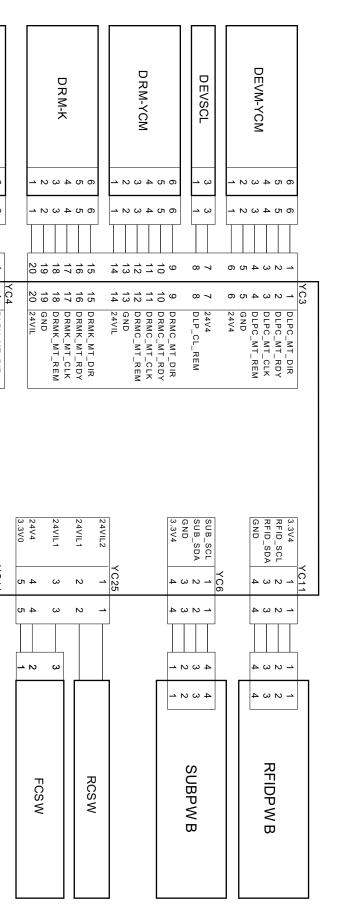
Adjusting the DP leading edge registration (U071) Adjusting the DP center line (U072)

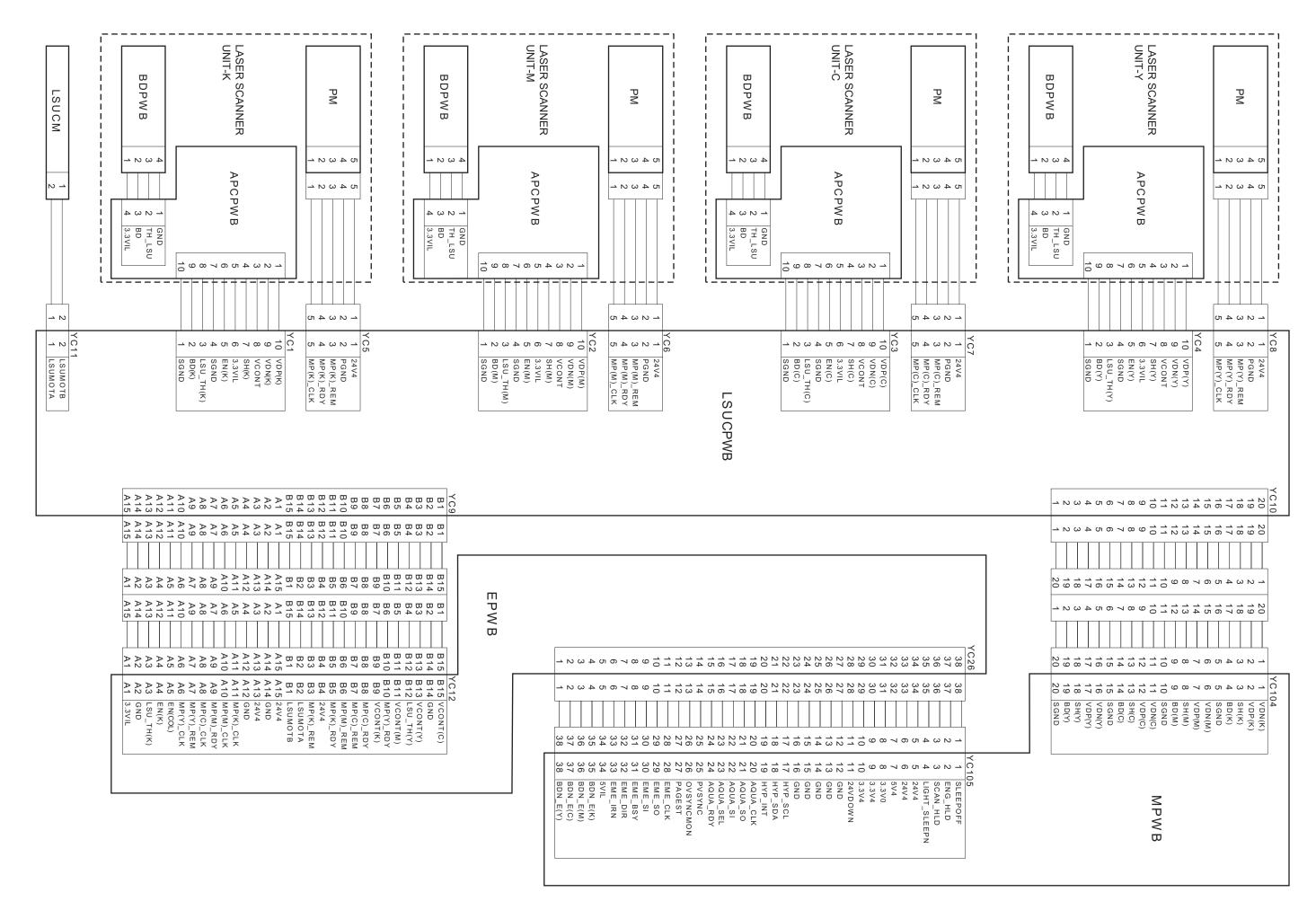
### Image quality

Item	Specifica
100% magnification	Machine: ±0.8%
-	Using DP: ±1.5%
Enlargement/reduction	Machine: ±1.0%
	Using DP: ±1.5%
Lateral squareness	Machine: ±1.5 mm
	Using DP: ±3.0 mr
Leading edge registration	Cassette: ±2.5 mn
	MP tray: ±2.5 mm
	Duplex: ±2.5 mm
Skewed paper feed	Cassette: 1.5 mm
(left-right difference)	MP tray: 1.5 mm c
	Duplex: 2.0 mm or
Lateral image shifting	Cassette: ±2.0 mn
	MP tray: ±2.0 mm
	Duplex: ±3.0 mm

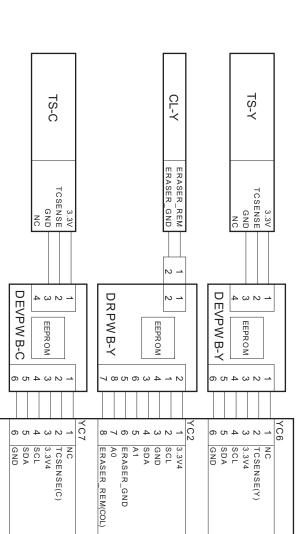
### (5) Wiring diagram

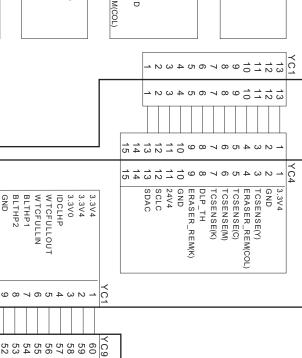
TEMS       1       1       1       5       1       5       5       HUMDATA         2       2       2       4       2       4       2       2       2       1 <t< th=""><th>I         I         I         VC13           1         1         1         1         2         2         1</th><th>1       1       1       A11       A11       A11       HVCLKY         2       2       2       A10       A10       YBACCNT         3       3       3       A9       A9       MYCNT         4       4       4       A8       BSSCNT         5       5       A7       BCMCNT       A8         6       6       A6       A6       BYMCNT         7       7       A5       A5       BCSCNT         9       9       A3       A3       MCCNT         10       10       A2       A2       MBACCNT         11       11       A1       A1       CBACCNT</th><th>VC1         VC1           1         1         B17         B17         24VL           2         2         B16         B16         24VL           3         3         3         B15         B15         B16         24VL           3         3         3         B16         B16         24VL         3           3         3         3         B16         B16         24VL         3         3           4         4         4         4         B13         B16         B16         24VL           5         5         6         6         B12         B12         HVCLKM           4         4         4         B11         B13         BKBACCNT           7         7         7         B10         B00         BMSCNT           12         12         12         B6         B4         MKCNT           13         13         B5         B5         MKSCNT           15         15         B3         B4         B4         HVREM           16         16         B2         B3         SCNT           16         16         B2         B2</th><th>TM-M     2       1     5       6     6       7     7       8     7       8     7       1     8</th><th>1     1</th></t<> <th>IHCFM         1         1         1         1         1         2         2         2         1         1         2         2         2         1         1         1         2         2         2         1         1         1         2         2         2         1         1         1         2         2         2         1         1         7         2         2         1         1         1         2         2         2         1         1         1         2         2         2         4         4         2         2         1         1         1         1         1         1         1         1         1         1         1         1         1         2         2         4         4         2         2         1         1         1         1         1         1         1         1         2         2         2         1         <th1< th="">         1         <th1< th=""> <th1< th=""></th1<></th1<></th1<></th> <th>IHFM         1         1         2         2         1         1         24V4           3         3         IH_FAN1_REM         3         IH_FAN1_ALM</th> <th>FUM         6         6         7         7         FUSER_MT_DIR           4         4         4         9         9         FUSER_MT_RDY           3         3         10         10         FUSER_MT_CLK           1         1         11         11         GNUSER_MT_REM           1         1         1         12         12         24VL</th> <th>DEVM-K         6         6         1         1         DLPK_MT_DIR           1         1         2         2         DLPK_MT_RDY           2         2         2         DLPK_MT_CLK           3         3         4         4         DLPK_MT_CLK           1         1         4         6         6         2         2           4         4         3         3         DLPK_MT_CLK         3         3         DLPK_MT_REM           1         1         6         6         24VIL         6         6         24VIL</th>	I         I         I         VC13           1         1         1         1         2         2         1	1       1       1       A11       A11       A11       HVCLKY         2       2       2       A10       A10       YBACCNT         3       3       3       A9       A9       MYCNT         4       4       4       A8       BSSCNT         5       5       A7       BCMCNT       A8         6       6       A6       A6       BYMCNT         7       7       A5       A5       BCSCNT         9       9       A3       A3       MCCNT         10       10       A2       A2       MBACCNT         11       11       A1       A1       CBACCNT	VC1         VC1           1         1         B17         B17         24VL           2         2         B16         B16         24VL           3         3         3         B15         B15         B16         24VL           3         3         3         B16         B16         24VL         3           3         3         3         B16         B16         24VL         3         3           4         4         4         4         B13         B16         B16         24VL           5         5         6         6         B12         B12         HVCLKM           4         4         4         B11         B13         BKBACCNT           7         7         7         B10         B00         BMSCNT           12         12         12         B6         B4         MKCNT           13         13         B5         B5         MKSCNT           15         15         B3         B4         B4         HVREM           16         16         B2         B3         SCNT           16         16         B2         B2	TM-M     2       1     5       6     6       7     7       8     7       8     7       1     8	1     1	IHCFM         1         1         1         1         1         2         2         2         1         1         2         2         2         1         1         1         2         2         2         1         1         1         2         2         2         1         1         1         2         2         2         1         1         7         2         2         1         1         1         2         2         2         1         1         1         2         2         2         4         4         2         2         1         1         1         1         1         1         1         1         1         1         1         1         1         2         2         4         4         2         2         1         1         1         1         1         1         1         1         2         2         2         1 <th1< th="">         1         <th1< th=""> <th1< th=""></th1<></th1<></th1<>	IHFM         1         1         2         2         1         1         24V4           3         3         IH_FAN1_REM         3         IH_FAN1_ALM	FUM         6         6         7         7         FUSER_MT_DIR           4         4         4         9         9         FUSER_MT_RDY           3         3         10         10         FUSER_MT_CLK           1         1         11         11         GNUSER_MT_REM           1         1         1         12         12         24VL	DEVM-K         6         6         1         1         DLPK_MT_DIR           1         1         2         2         DLPK_MT_RDY           2         2         2         DLPK_MT_CLK           3         3         4         4         DLPK_MT_CLK           1         1         4         6         6         2         2           4         4         3         3         DLPK_MT_CLK         3         3         DLPK_MT_REM           1         1         6         6         24VIL         6         6         24VIL
_MT_RDY 11 11 1 _MT_RDY 12 12 4 5 12 5 12 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		GND       8       8       6       13       2       2       GND       8       8       6       13       2       2       2       2       2       3.3V       MPF_SENSE       9       9       9       4       14       12       2       2       2       3.3V       MPF_SENSE       9       9       4       14       12       2       2       2       2       2       2       2       3       3.3V       MPS         3.3V4       10       10       3       15       1       1       2       2       2       2       2       3       3.3V       MPS         GND       11       11       12       1       17       1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1     1     1     1     1     Vec or GND     JEPS       I     I     I     I     Vec or GND     JEPS		Image: Sol_RETURN       1         Image: Sol_RET	YC20 EXIT UNIT	EPWB	VC14       BRSET     1     1       QND     2     2     1     1       BRDSW

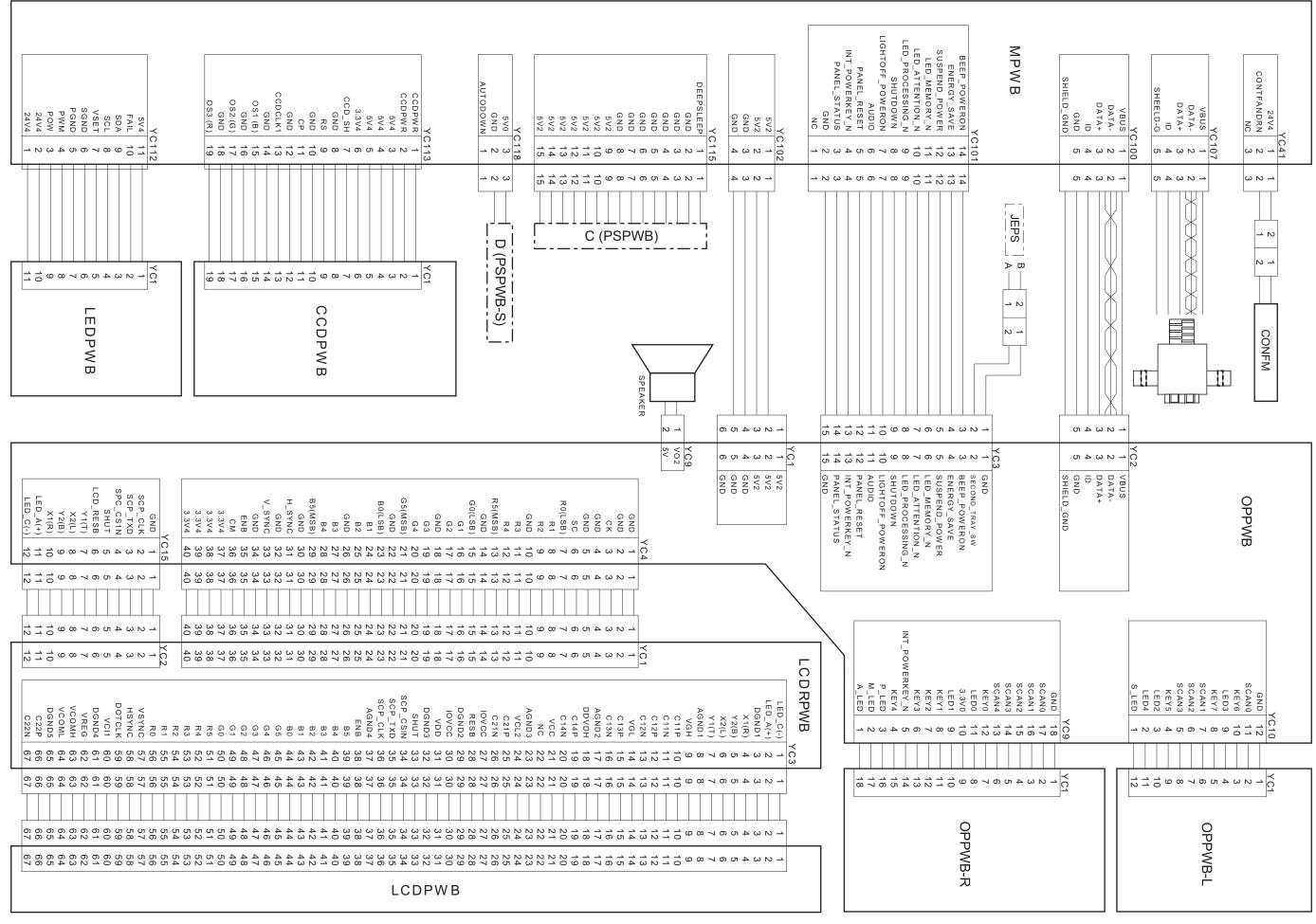


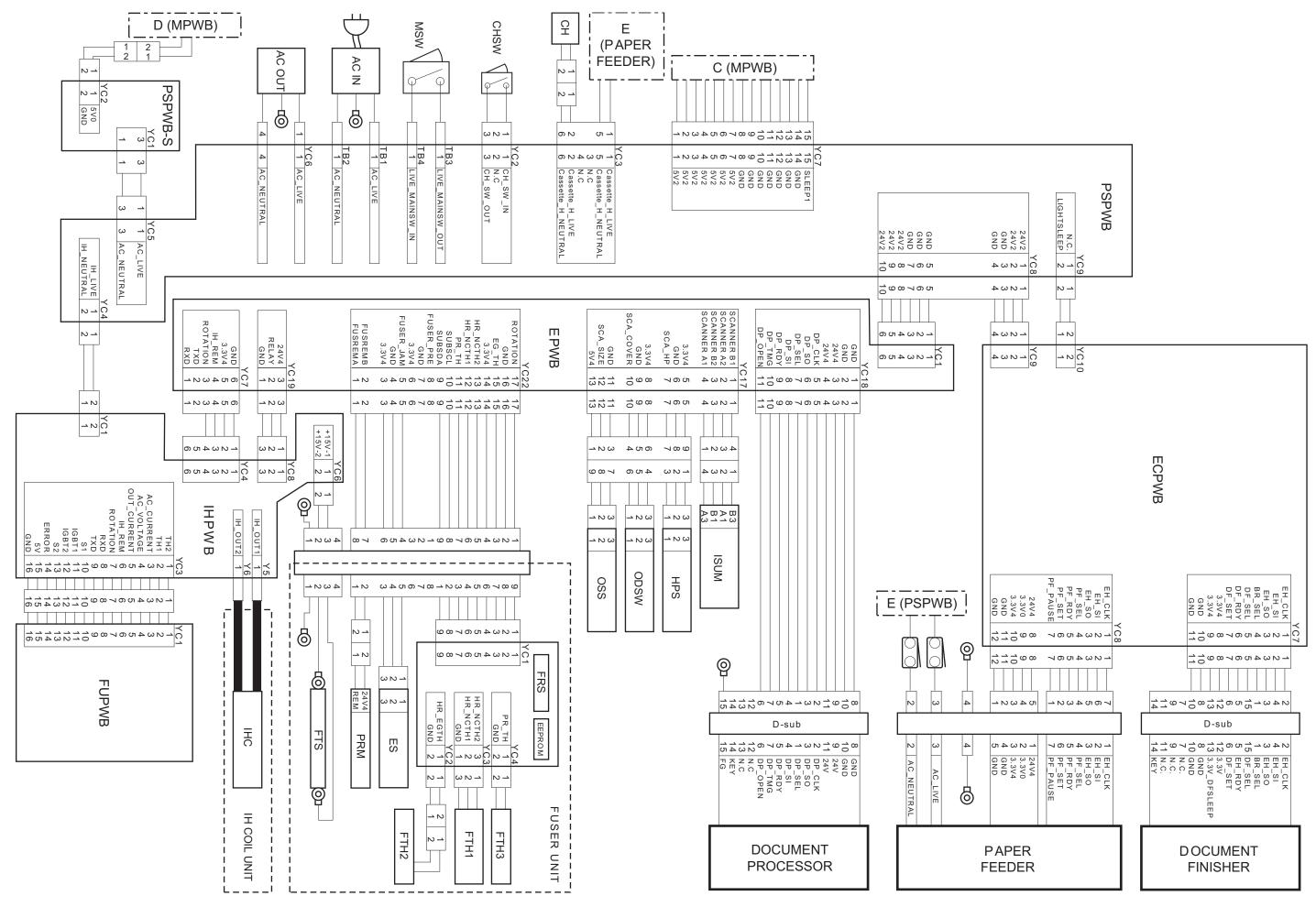


	ξ	GND       SCLA       10         GND       SCLA       10         SDAA       10       12         GND       SCLC       11         GND       SCLC       14         GND       TCSENSE(Y)       14         TCSENSE(C)       15       16         TCSENSE(K)       18       19         DLP_TH       21       21         FANCFULL       26       25         FANCFULL       26       27

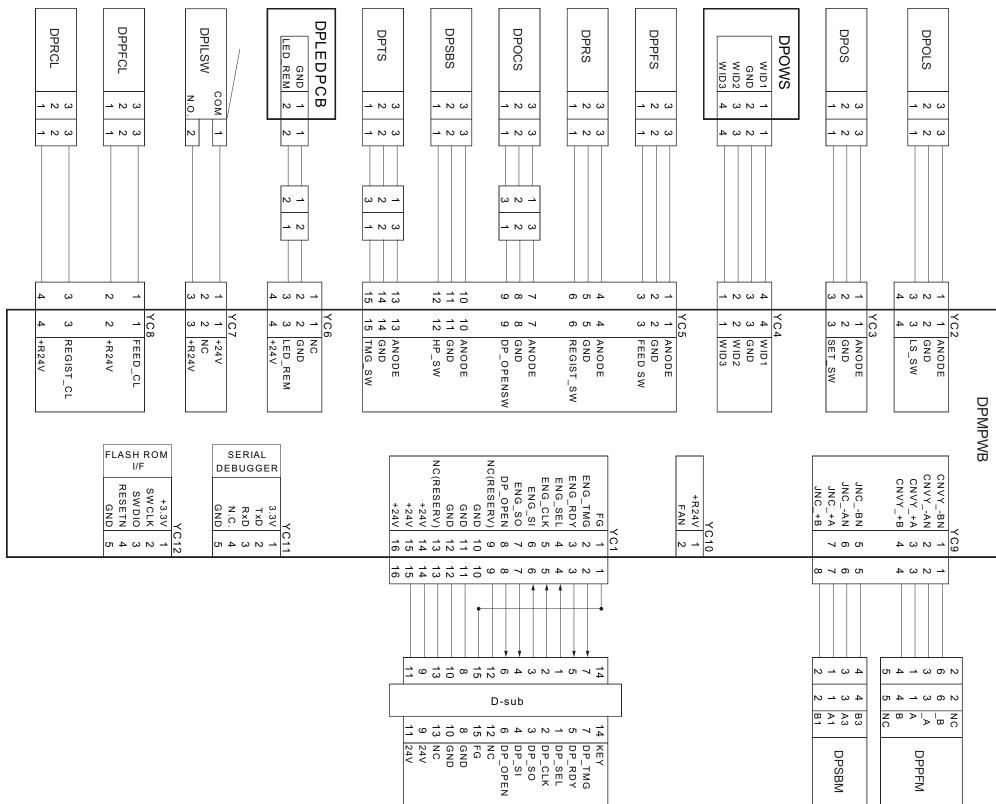


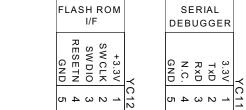


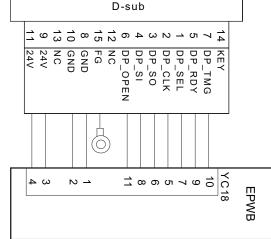




2KZ/2K0



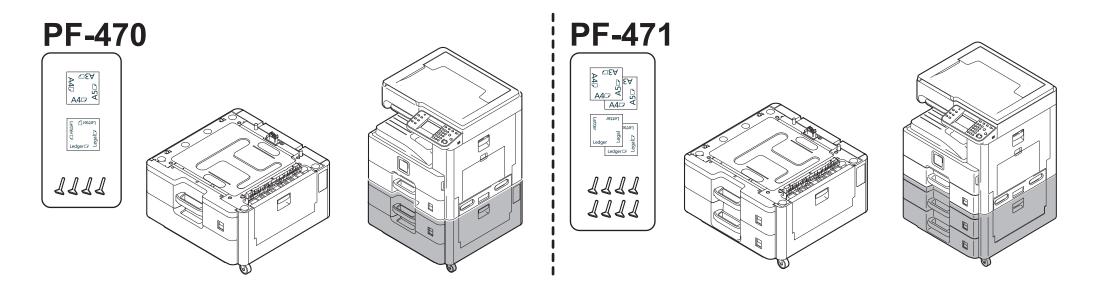


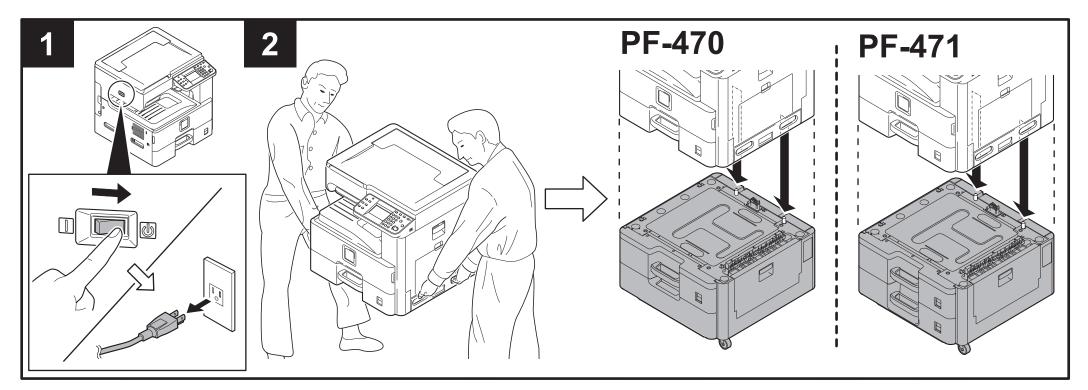


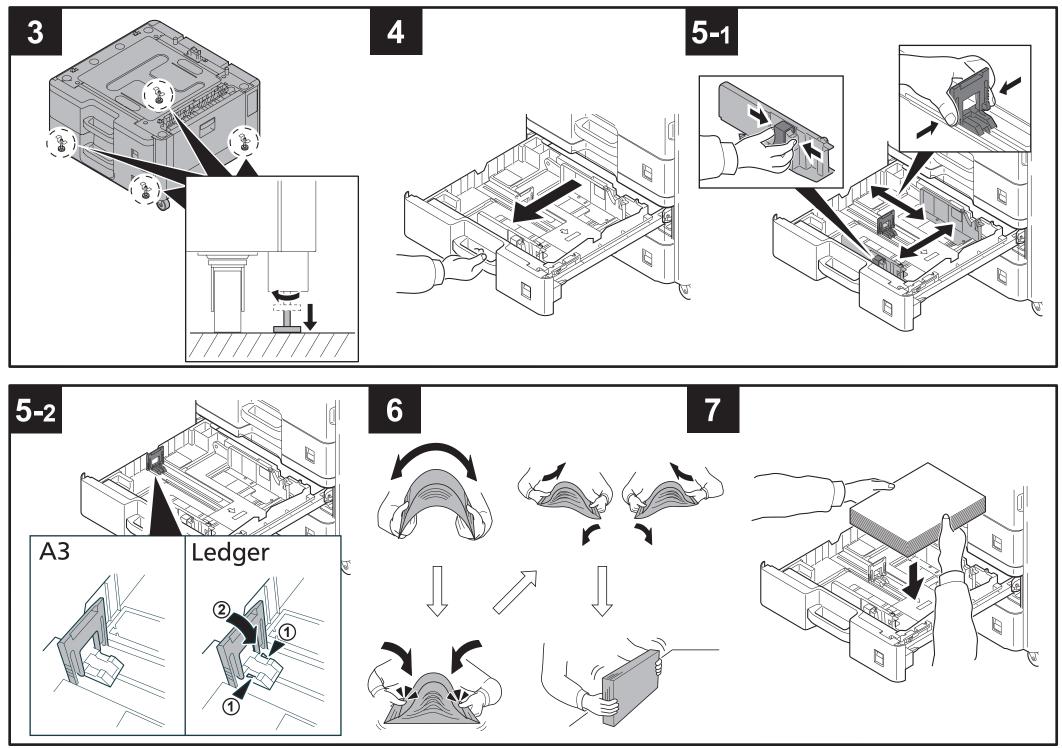
2KZ/2K0

# Paper feeder Installation Guide

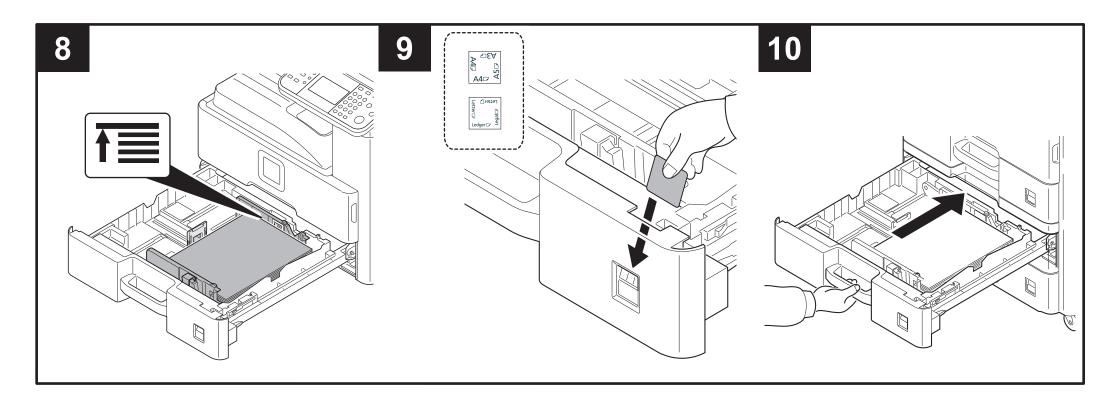
# PF-470/471 PAPER FEEDER











### ENG

### Fix Paper Width Guide

You can fix the paper width guide using the supplied retaining pins. Follow the steps below as necessary.

### FR

### Fixation du guide de largeur du papier

Vous pouvez fixer le guide de largeur du papier en utilisant les goupilles de fixation fournies.

Suivez les étapes ci-dessous en fonction des besoins.

## ES

### Fijar la guía de anchura del papel

Puede fijar la guía de anchura del papel con los pernos de retén proporcionados. Siga los pasos siguientes según sea necesario.

## DE

### Papierbreitenführung befestigen

Sie können die Papierbreitenführung mit den gelieferten Haltebolzen befestigen. Folgen Sie den Schritten unten falls notwendig.

### $(\Pi)$ Fissare la guida di larghezza carta

Per fissare la guida di larghezza carta, utilizzare i perni di fissaggio forniti. Eseguire i seguenti punti come necessario.

# CN

**固定纸张宽度导板** 您可以使用附带的定位销固定纸张宽度导板。 必要时执行如下步骤。

# TW

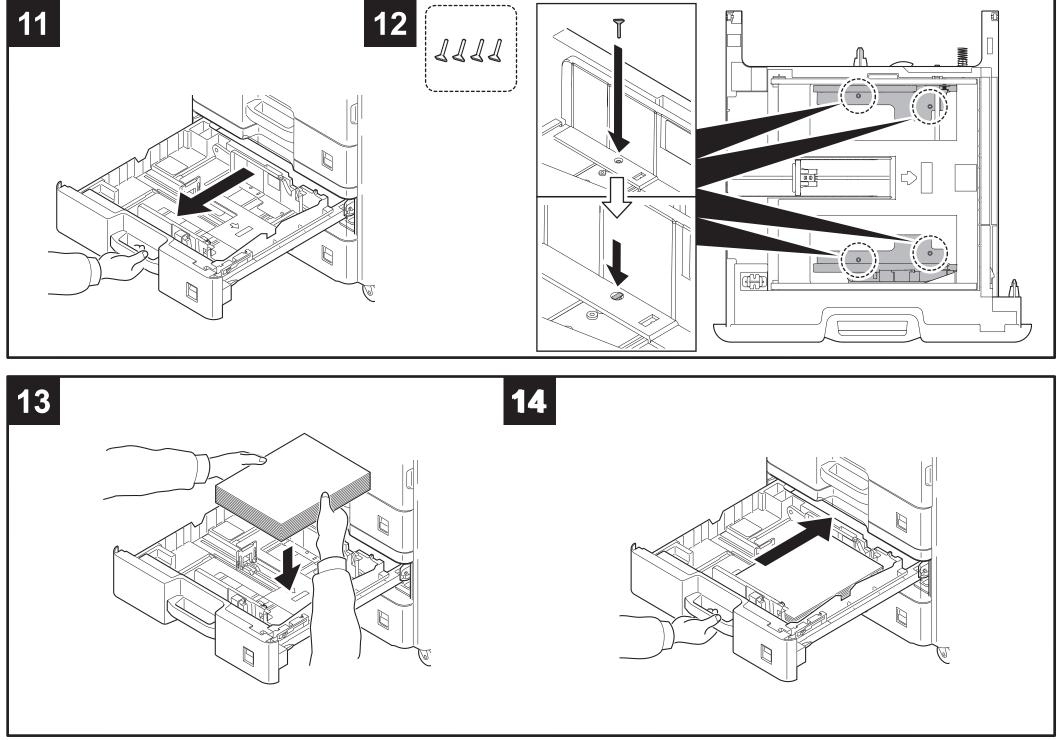
一**固定紙張寬度導板** 您可以使用隨附的定位卡榫固定紙張寬度導板。 如有必要,請執行以下步驟。

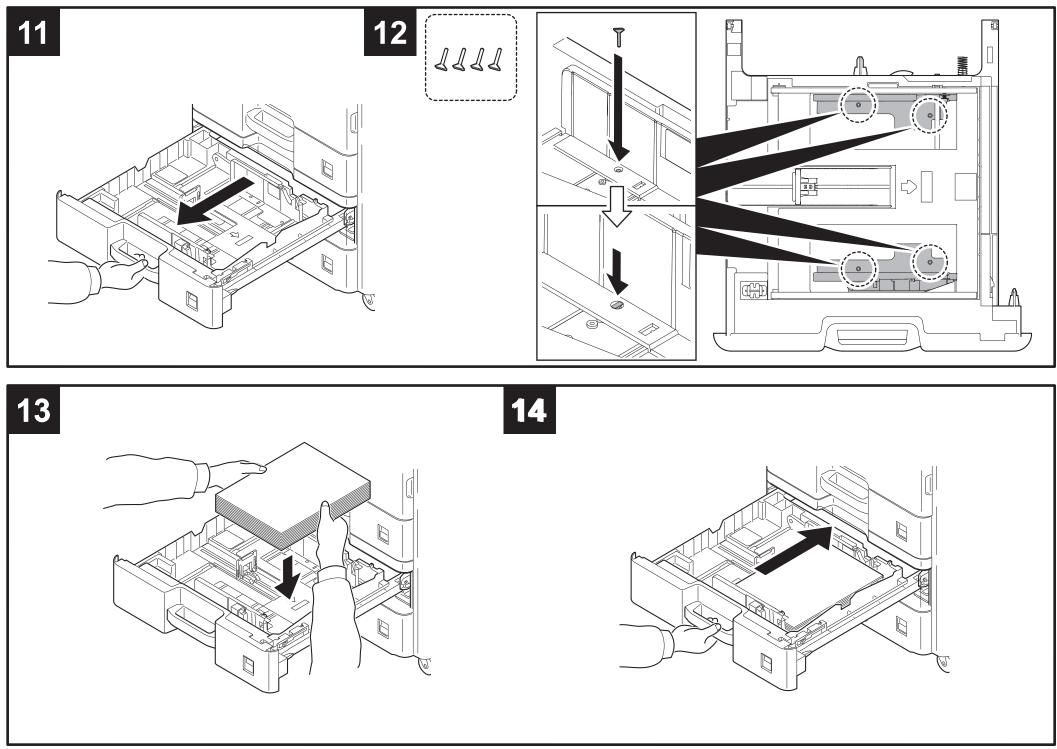
# KO

용지폭 가이드 고정 기기와 함께 제공된 핀으로 용지폭 가이드를 고정시킬 수 있습니다. 필요하면 아래의 작업을 하십시오.

# JP

用紙幅ガイドの固定 用紙幅ガイドは同梱のピンで固定することが可能です。 必要に応じて、以下の作業を行って下さい。

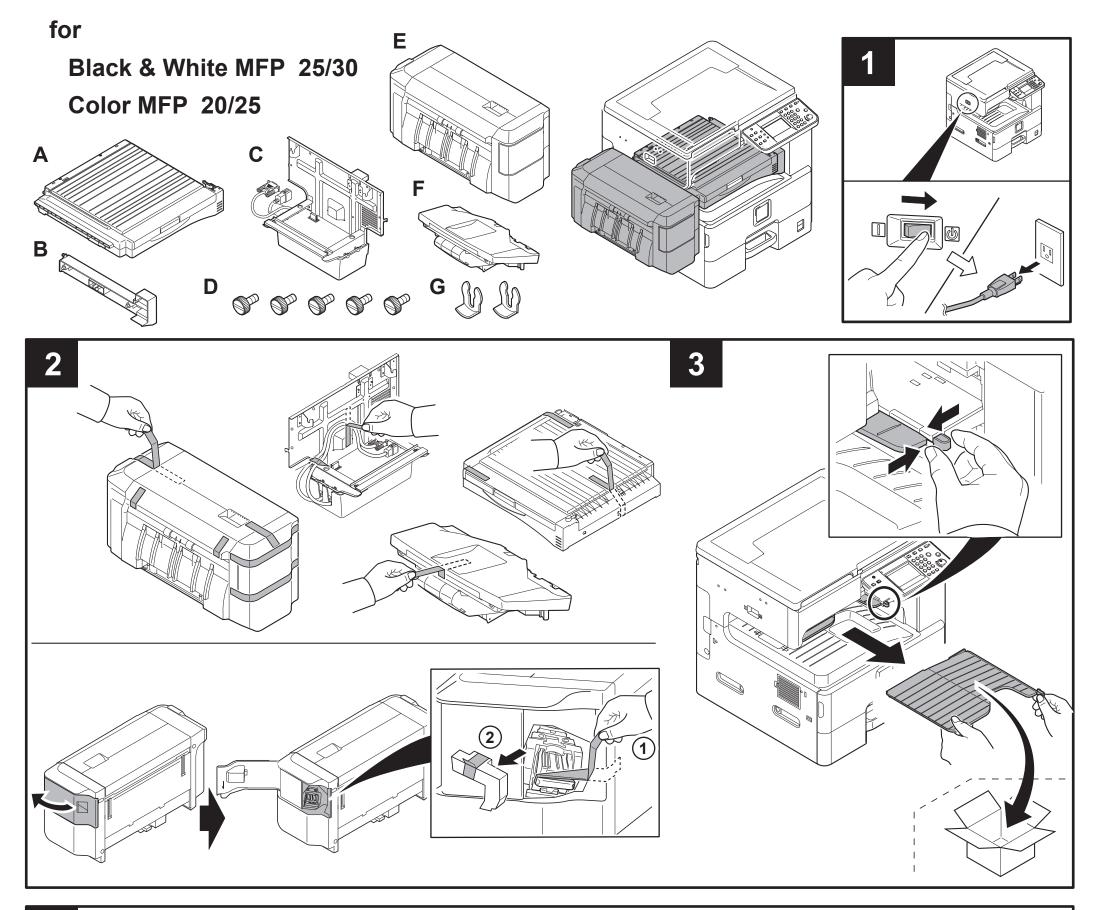


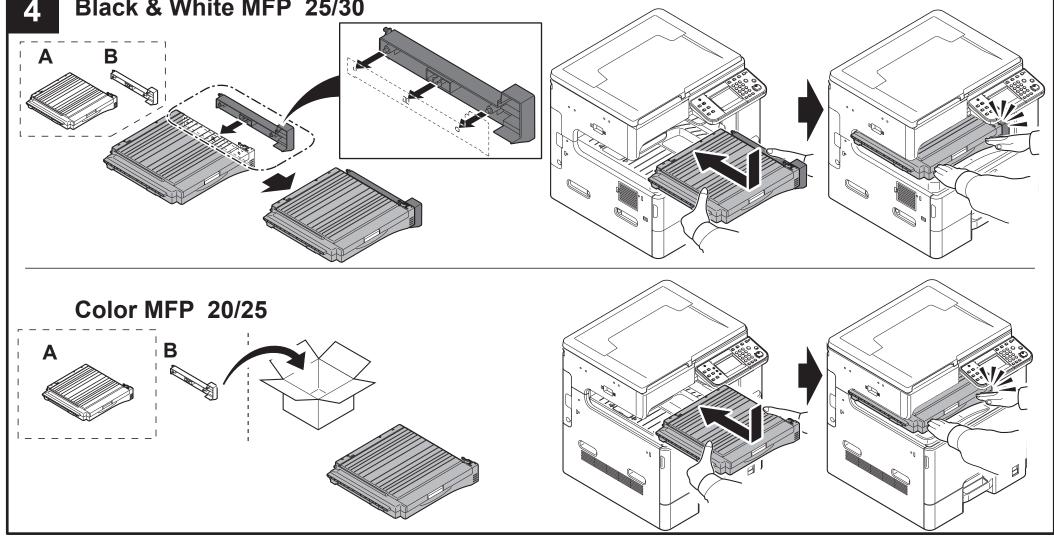


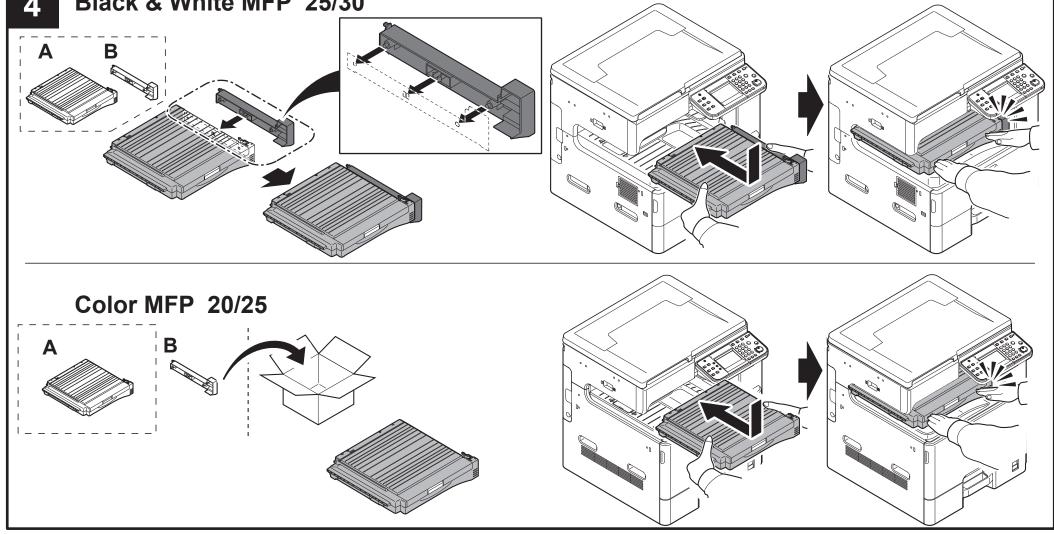


# Document finisher Installation Guide

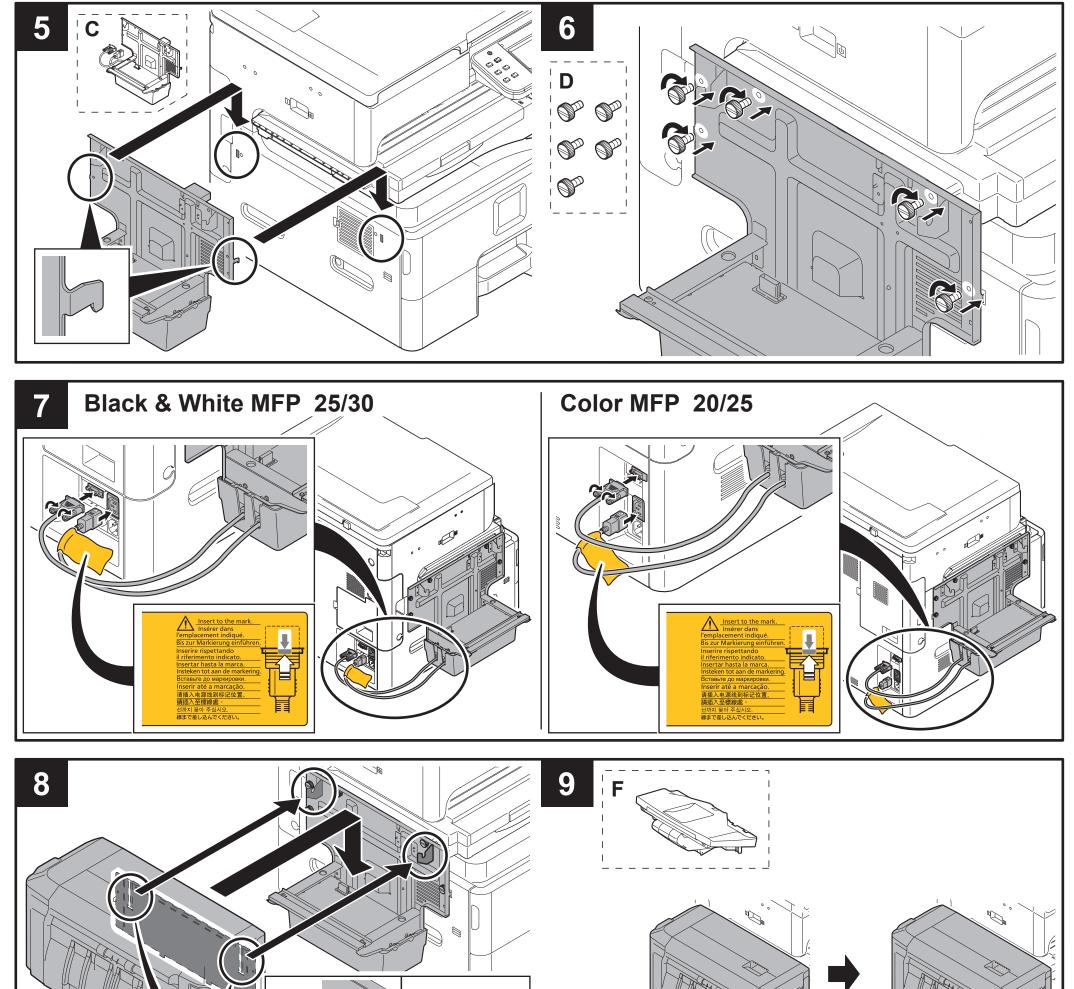
# DF-470 DOCUMENT FINISHER, AK-470 ATTACHMENT KIT

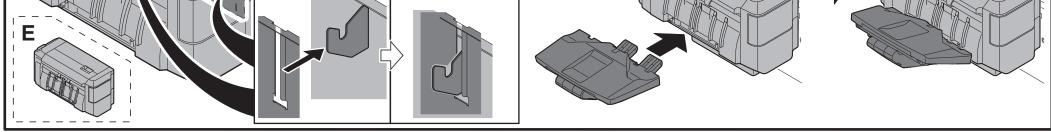


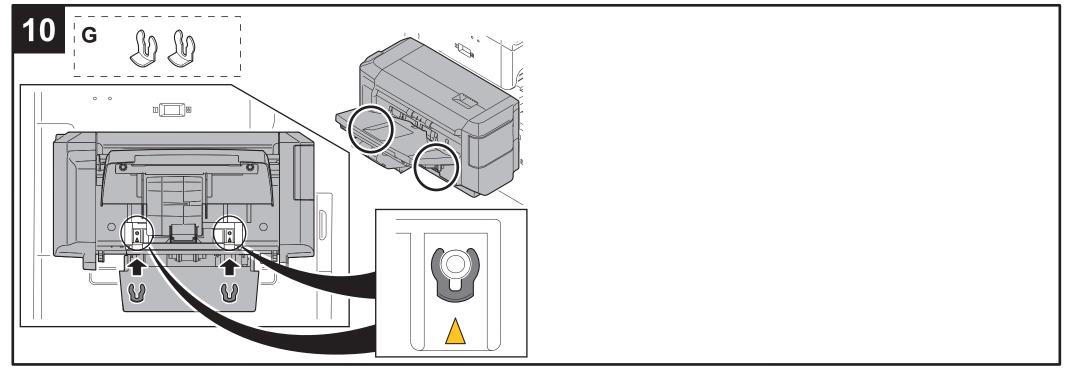








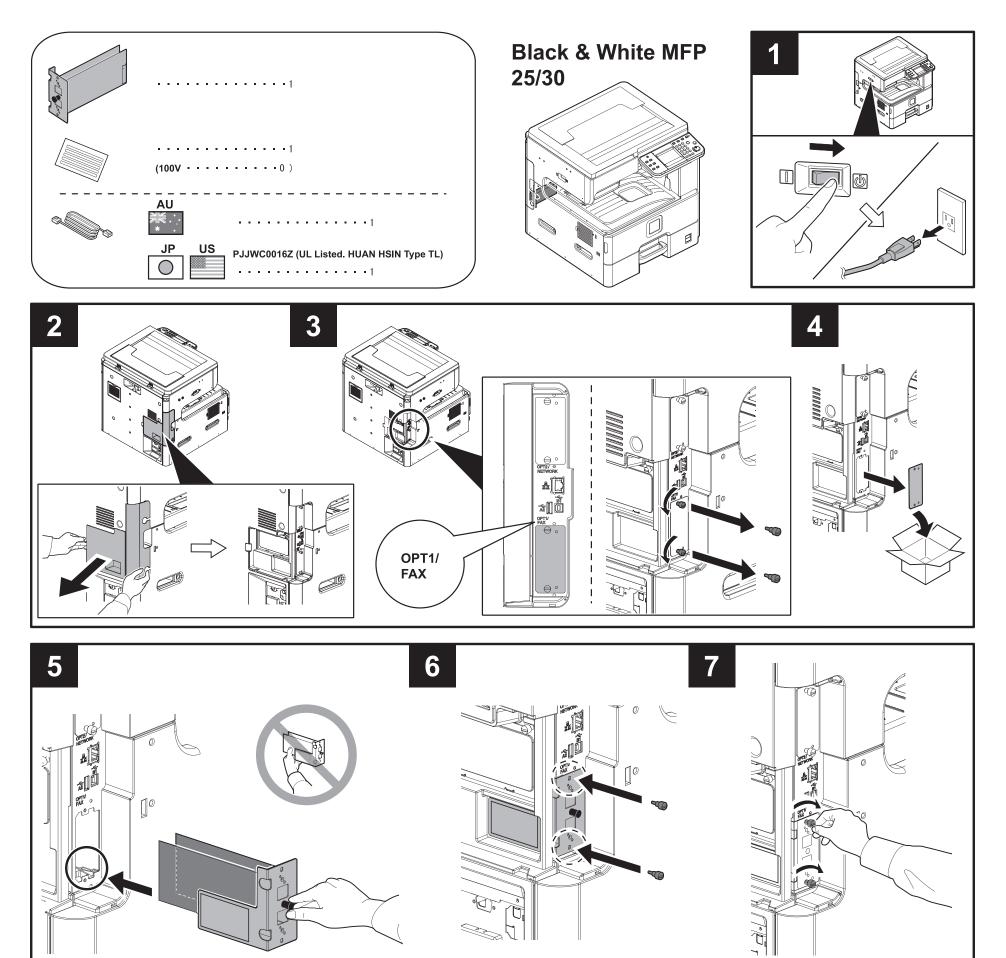


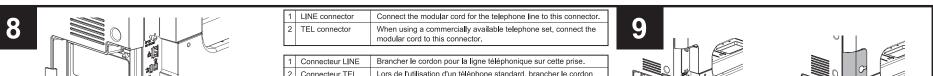


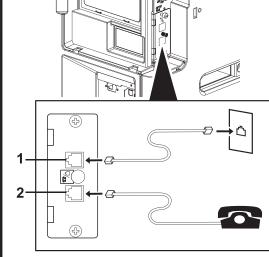


# FAX System(U) Installation Guide

# FAX System(U)







Connecteur TEL	Lors de l'utilisation d'un telephone standard, brancher le cordon
	téléphonique à cette prise.

1	Conector de LÍNEA	Conecte el cable modular de la línea telefónica a este conector.
2	Conector TEL	Si utiliza un aparato telefónico de los disponibles en el mercado, conecte el cable modular a este conector.

 
 1
 Leitungsanschluss-buchse
 Verbinden Sie diesen Anschluss mit der Telefondose.

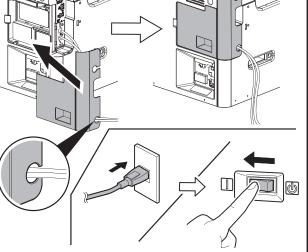
 2
 Telefonanschlussbuchse
 Hier kann ein Telefon angeschlossen werden.

- 1
   Connettore LINEA
   Collegare a questo connettore il cavo modulare della linea telefonica.

   2
   Connettore TEL
   Se si desidera collegare al sistema un normale telefono, collegarlo a questo connettore.
- 1
   LINHA conector
   Conecte o cabo modular para a linha telefônica a este conector.

   2
   TEL conector
   Ao usar um aparelho telefônico disponível comercialmente, conecte o cabo modular a este conector.
- 1
   LINE接続コネクター
   電話回線のモジュラーコードを接続してください。

   2
   TEL接続コネクター
   市販の電話機を併用する場合は、ここに接続してください。



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**FAX Setup Wizard** 







1

Configurare fax





System Menu / Counter 1 2 📄 Hızlı Ayar Sihirbaz 3 FAKS Ayarlama

ARA	CN	TW	КО	P
يوفر الجهاز معالج الإعداد السريع في قائمة النظام لإعداد الفاكس. اتبع التعليمات الموجودة على لوحة التشغيل.	可通过机器系统菜单中的快速设置向导设 置传真。请遵循操作面板上的指导说明。	可透過系統選單中的快速設定精靈進行傳 真設定。請依照操作面板上的指示說明。	기기의 시스템 메뉴에서 팩스를 설정할 수 있도록 빠른 설정 마법사를 제공합니다.조작 패널에 표시된 지침을 따르십시오.	本機は、システムメニューに簡単セット アップウィザードを搭載しております。 画面にしたがってファクスを設定してく ださい。
♦ System Menu / Counter	<ul><li>◇系统菜单/计数</li><li>①</li></ul>	<ul> <li>◆系統選單/計數器</li> <li>①</li> </ul>	<ul> <li>(1)</li> </ul>	<ul> <li>システムメニュー / カウンター</li> <li>①</li> </ul>
معلج الاعتاد السريع	2 於速设置向导	▲ ● 快速設定精靈	2         할 빠른 설정 마법사	2 静 簡単セットアップウィザード
إعداد الفاكس >	(3) 传真设置 >>	③ 傳真設定 >>	③ 팩스 설정 >	<ul> <li>ファクスのセットアップ</li> </ul>

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# KYOCERA MITA EUROPE B.V.

Bloemlaan 4, 2132 NP Hoofddorp, The Netherlands Phone: +31.20.654.0000 Home page: http://www.kyoceramita-europe.com Email: info@kyoceramita-europe.com

KYOCERA MITA NEDERLAND B.V. Beechavenue 25,1119RA Schiphol-Rijk The Netherlands Phone: +31.20.58.77.200

KYOCERA MITA (UK) LTD 8 Beacontree Plaza Gillette Way Reading Berks RG2 OBS, U.K. Phone: +44.1189.311.500

KYOCERA MITA ITALIA S.p.A. Via G. Verdi, 89 / 91, 20063 Cernusco s/N Milano, Italy Phone: +39.02.92179.1

S.A. KYOCERA MITA BELGIUM N.V. Sint-Martinusweg 199-201, 1930 Zaventem, Belgium Phone: +32.2.720.9270

KYOCERA MITA FRANCE S.A. Espace Technologique de St Aubin Route de l'Orme

91195 Gif-sur-Yvette CEDEX, France Phone: +33.1.6985.2600

KYOCERA MITA ESPAÑA S.A. Edificio Kyocera, Avda de Manacor No. 2, 28290 Las Matas (Madrid), Spain Phone: +34.91.631.8392

KYOCERA MITA FINLAND OY Atomitie 5C, 00370 Helsinki, Finland

Phone: +358.9.4780.5200

KYOCERA MITA (SCHWEIZ) Hohlstrasse 614, 8048 Zürich Switzerland Phone: +41.44.908.4949

KYOCERA MITA DEUTSCHLAND GMBH Otto-Hahn-Str. 12 D-40670 Meerbusch, Germany Phone: +49.2159.918.0

KYOCERA MITA GMBH AUSTRIA Eduard-Kittenberger-Gasse 95, 1230 Wien, Austria Phone: +43.1.86338

KYOCERA MITA SVENSKA AB Esbogatan 16B 164 75 Kista, Sweden Phone: +46.8.546.55000

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KYOCERA MITA NORGE

Postboks 150 Oppsal, NO 0619 Oslo Olaf Helsetsvei 6, NO 0694 Oslo, Norway Phone: +47.22.62.73.00

KYOCERA MITA DANMARK A/S Ejby Industrivej60, DK-2600 Glostrup, Denmark Phone: +45.7022.3880

KYOCERA MITA PORTUGAL LDA. Rua do Centro Cultural, 41 (Alvalade) 1700-106 Lisboa, Portugal Phone: +351.21.843.6780

KYOCERA MITA SOUTH AFRICA (PTY) LTD. 49 Kyalami Boulevard, Kyalami Business Park Midrand, South Africa Phone: +27.(0)11.540.2600

# KYOCERA MITA AMERICA, INC.

Headquarters: 225 Sand Road, Fairfield, New Jersey 07004-0008, U.S.A. Phone: (973) 808-8444

KYOCERA MITA AUSTRALIA PTY. LTD. Level 3, 6-10 Talavera Road, North Ryde, N.S.W. 2113 Australia Phone: (02) 9888-9999

KYOCERA MITA NEW ZEALAND LTD. 1-3 Parkhead Place, Albany P.O. Box 302 125 NHPC, Auckland, New Zealand Phone: (09) 415-4517

### **KYOCERA MITA Asia Limited**

16/F., Mita Centre, 552-566, Castle Peak Road, Tsuen Wan, New Territories, Hong Kong Phone: (852)-2610-2181

### **KYOCERA MITA Corporation**

2-28, 1-chome, Tamatsukuri, Chuo-ku Osaka 540-8585, Japan Phone: (06) 6764-3555 http://www.kyoceramita.com

# KYOCERA MITA AMERICA, INC.

### **Headquarters:**

225 Sand Road, Fairfield, New Jersey 07004-0008 TEL : (973) 808-8444 FAX : (973) 882-6000

### New York Branch:

30-30 47th Avenue Long Island City, NY 11101 TEL : (718) 289-2500 FAX : (718) 289-2501

### Northeastern Region:

225 Sand Road, Fairfield, New Jersey 07004-0008 TEL : (973) 808-8444 FAX : (973) 882-4401

### **Midwestern Region:**

201 Hansen Court Suite 119 Wood Dale, Illinois 60191 TEL : (630) 238-9982 FAX : (630) 238-9487

### Western Region:

14101 Alton Parkway, Irvine, California 92618-7006 TEL : (949) 457-9000 FAX : (949) 457-9119

### Southeastern Region:

3100 Breckinridge Blvd. NW Building 100, Suite 105 Duluth, Georgia 30096 TEL : (770) 729-9786 FAX : (770) 729-9873

### Southwestern Region:

2825 West Story Road, Irving, Texas 75038-5299 TEL : (972) 550-8987 FAX : (972) 570-4704

### National Operation Center

& National Training Center: 2825 West Story Road, Irving, Texas 75038-5299 TEL : (972) 659-0055 FAX : (972) 570-5816

#### Latin America Division:

8240 N.W. 52nd. Terrace Dawson Building, Suite 108 Miami, Florida 33166 TEL : (305) 421-6640 FAX : (305) 421-6666

### .....

# KYOCERA MITA MEXICO, S.A. DE C.V.

KYOCERA MITA CANADA, LTD.

6120 Kestrel Road, Mississauga,

Ontario L5T 1S8, Canada

TEL : (905) 670-4425

FAX : (905) 670-8116

Av. 16 de Septiembre #407 Col. Santa Inés, Azcapotzalco México, D.F. 02130, México TEL : (55) 5383-2741 FAX : (55) 5383-7804

# KYOCERA MITA Brazil Ltda.

Av. Tambore, 1180 Mob.B-09 CEP 06460-000 Tambore-Barveri-SP, Brazil TEL : (55) 11-4195-8496 FAX : (55) 11-4195-6167

# KYOCERA MITA Asia Limited

16/F., Mita Centre, 552-566, Castle Peak Road, Tsuen Wan, New Territories, Hong Kong Phone: (852)-2610-2181

KYOCERA MITA (Thailand) Corp., Ltd. 335 Ratchadapisek Road, Bangsue, Bangkok, 10800, Thailand Phone: (66)-2-586-0333

KYOCERA MITA Singapore Pte Ltd. 121 Genting Lane, 3rd Level, Singapore 349572 Phone: (65)-6741-8733

KYOCERA MITA Hong Kong Limited 16/F., Mita Centre, 552-566, Castle Peak Road, Tsuen Wan, New Territories, Hong Kong Phone: (852)-2429-7422

KYOCERA MITA Taiwan Corporation 6F., No.37, Sec. 3, Minquan E. Rd., Zhongshan Dist., Taipei 104, Taiwan R.O.C. Phone: (886)-2-2507-6709

KYOCERA MITA Korea Co., Ltd. 18F, Kangnam bldg, 1321-1, Seocho-Dong, Seocho-Gu, Seoul, Korea Phone: (822)-6933-4050

KYOCERA MITA India Private Limited First Floor, ORCHID CENTRE Sector-53, Golf Course Road, Gurgaon 122 002, India Phone: (91)-0124-4671000

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