

SERVICE MANUAL

FIELD SERVICE

bizhub 200 / 250 / 350

The **bizhub** 200 is available only for Inch area.

2005.08 KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. Ver. 1.0

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SAFETY AND IMPORTANT WARNING ITEMS

Read carefully the Safety and Important Warning Items described below to understand them before doing service work.

IMPORTANT NOTICE

Because of possible hazards to an inexperienced person servicing this product as well as the risk of damage to the product, KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. (hereafter called the KMBT) strongly recommends that all servicing be performed only by KMBT-trained service technicians.

Changes may have been made to this product to improve its performance after this Service Manual was printed. Accordingly, KMBT does not warrant, either explicitly or implicitly, that the information contained in this Service Manual is complete and accurate.

The user of this Service Manual must assume all risks of personal injury and/or damage to the product while servicing the product for which this Service Manual is intended.

Therefore, this Service Manual must be carefully read before doing service work both in the course of technical training and even after that, for performing maintenance and control of the product properly.

Keep this Service Manual also for future service.

DESCRIPTION ITEMS FOR DANGER, WARNING AND CAUTION

In this Service Manual, each of three expressions " \triangle DANGER", " \triangle WARNING", and " \triangle CAUTION" is defined as follows together with a symbol mark to be used in a limited meaning.

When servicing the product, the relevant works (disassembling, reassembling, adjustment, repair, maintenance, etc.) need to be conducted with utmost care.

DANGER: Action having a high possibility of suffering death or serious injury

WARNING: Action having a possibility of suffering death or serious injury

CAUTION: Action having a possibility of suffering a slight wound, medium trouble, and property damage

Symbols used for safety and important warning items are defined as follows:



SAFETY WARNINGS

[1] MODIFICATIONS NOT AUTHORIZED BY KONICA MINOLTA BUSINESS TECHNOLOGIES, INC.

KONICA MINOLTA brand products are renowned for their high reliability. This reliability is achieved through high-quality design and a solid service network.

Product design is a highly complicated and delicate process where numerous mechanical, physical, and electrical aspects have to be taken into consideration, with the aim of arriving at proper tolerances and safety factors. For this reason, unauthorized modifications involve a high risk of degradation in performance and safety. Such modifications are therefore strictly prohibited. the points listed below are not exhaustive, but they illustrate the reasoning behind this policy.

Prohibited Actions		
 Using any cables or power cord not specified by KMBT. 	\bigcirc	
 Using any fuse or thermostat not specified by KMBT. Safety will not be assured, leading to a risk of fire and injury. 	\bigcirc	
 Disabling fuse functions or bridging fuse terminals with wire, metal clips, solder or similar object. 	\bigcirc	Ø,
 Disabling relay functions (such as wedging paper between relay contacts) 	\bigcirc	
 Disabling safety functions (interlocks, safety circuits, etc.) Safety will not be assured, leading to a risk of fire and injury. 	\bigcirc	A Contraction of the second
 Making any modification to the product unless instructed by KMBT 	\bigcirc	
Using parts not specified by KMBT	\bigcirc	

[2] POWER PLUG SELECTION

In some countries or areas, the power plug provided with the product may not fit wall outlet used in the area. In that case, it is obligation of customer engineer (hereafter called the CE) to attach appropriate power plug or power cord set in order to connect the product to the supply.



[3] CHECKPOINTS WHEN PERFORMING ON-SITE SERVICE

KONICA MINOLTA brand products are extensively tested before shipping, to ensure that all applicable safety standards are met, in order to protect the customer and customer engineer (hereafter called the CE) from the risk of injury. However, in daily use, any electrical equipment may be subject to parts wear and eventual failure. In order to maintain safety and reliability, the CE must perform regular safety checks.

1. Power Supply



Power Plug and Cord		
 When using the power cord set (inlet type) that came with this product, make sure the connector is securely inserted in the inlet of the product. When securing measure is provided, secure the cord with the fixture properly. If the power cord (inlet type) is not connected to the product securely, a contact problem may lead to increased resistance, overheating, and risk of fire. 	0	
 Check whether the power cord is not stepped on or pinched by a table and so on. Overheating may occur there, leading to a risk of fire. 	\bigcirc	
 Check whether the power cord is damaged. Check whether the sheath is damaged. If the power plug, cord, or sheath is damaged, replace with a new power cord (with plug and connector on each end) specified by KMBT. Using the damaged power cord may result in fire or electric shock. 	0	0
 Do not bundle or tie the power cord. Overheating may occur there, leading to a risk of fire. 	\bigcirc	
 Check whether dust is collected around the power plug and wall outlet. Using the power plug and wall outlet without removing dust may result in fire. 	0	
 Do not insert the power plug into the wall outlet with a wet hand. The risk of electric shock exists. 		
 When unplugging the power cord, grasp the plug, not the cable. The cable may be broken, leading to a risk of fire and electric shock. 	0	

Wiring

• Never use multi-plug adapters to plug multiple power cords in the same outlet.

If used, the risk of fire exists.

 When an extension cord is required, use a specified one. Current that can flow in the extension cord is limited, so using a too long extension cord may result in fire.
 Do not use an extension cable reel with the cable taken up. Fire may result.

2. Installation Requirements

Prohibited Installation Places

• Do not place the product near flammable materials or volatile materials that may catch fire.

A risk of fire exists.

- Do not place the product in a place exposed to water such as rain.
 - A risk of fire and electric shock exists.

When not Using the Product for a long time

• When the product is not used over an extended period of time (holidays, etc.), switch it off and unplug the power cord.



Dust collected around the power plug and outlet may cause fire.



Ventilation

 The product generates ozone gas during operation, but it will not be harmful to the human body.

If a bad smell of ozone is present in the following cases,

- ventilate the room. a. When the product is used in a poorly ventilated room
- b. When taking a lot of copies
- c. When using multiple products at the same time

Stability

 Be sure to lock the caster stoppers.
 In the case of an earthquake and so on, the product may slide, leading to a injury.

Inspection before Servicing

Before conducting an inspection, read all relevant documentation (service manual, technical notices, etc.) and proceed with the inspection following the prescribed procedure, using only the prescribed tools. Do not make any adjustment not described in the documentation.

If the prescribed procedure or tool is not used, the product may break and a risk of injury or fire exists.

• Before conducting an inspection, be sure to disconnect the power plugs from the product and options.

When the power plug is inserted in the wall outlet, some units are still powered even if the POWER switch is turned OFF. A risk of electric shock exists.

 The area around the fixing unit is hot. You may get burnt.





Work Performed with the Product Powered On

Take every care when making adjustments or performing an operation check with the product powered. If you make adjustments or perform an operation check with the external cover detached, you may touch live or high-voltage parts or you may be caught in moving gears or the timing belt, leading to a risk of injury.
Take every care when servicing with the external cover detached. High-voltage exists around the drum unit. A risk of electric shock exists.

Safety Checkpoints			
•	Check the exterior and frame for edges, burrs, and other damage. The user or CE may be injured.	0	
•	Do not allow any metal parts such as clips, staples, and screws to fall into the product. They can short internal circuits and cause electric shock or fire.	\bigcirc	Ø,
•	Check wiring for squeezing and any other damage. Current can leak, leading to a risk of electric shock or fire.	0	
•	Carefully remove all toner remnants and dust from electri- cal parts and electrode units such as a charging corona unit. Current can leak, leading to a risk of product trouble or fire.	0	
•	Check high-voltage cables and sheaths for any damage. Current can leak, leading to a risk of electric shock or fire.		

Safety Checkpoints		
∕		
 Check electrode units such as a charging corona unit for deterioration and sign of leakage. Current can leak, leading to a risk of trouble or fire. 	0	
 Before disassembling or adjusting the write unit (P/H unit) incorporating a laser, make sure that the power cord has been disconnected. The laser light can enter your eye, leading to a risk of loss of eyesight. 		
 Do not remove the cover of the write unit. Do not supply power with the write unit shifted from the specified mount- ing position. The laser light can enter your eye, leading to a risk of loss of eyesight. 	\otimes	
 When replacing a lithium battery, replace it with a new lith- ium battery specified in the Parts Guide Manual. Dispose of the used lithium battery using the method specified by local authority. Improper replacement can cause explosion. 		
 After replacing a part to which AC voltage is applied (e.g., optical lamp and fixing lamp), be sure to check the installation state. A risk of fire exists. 	0	
 Check the interlock switch and actuator for loosening and check whether the interlock functions properly. If the interlock does not function, you may receive an electric shock or be injured when you insert your hand in the product (e.g., for clearing paper jam). 		
 Make sure the wiring cannot come into contact with sharp edges, burrs, or other pointed parts. Current can leak, leading to a risk of electric shock or fire. 		

Safety Checkpoints

 Make sure that all screws, components, wiring, connectors, etc. that were removed for safety check and maintenance have been reinstalled in the original location. (Pay special attention to forgotten connectors, pinched cables, forgotten screws, etc.)



A risk of product trouble, electric shock, and fire exists.

Handling of Consumables

 Toner and developer are not harmful substances, but care must be taken not to breathe excessive amounts or let the substances come into contact with eyes, etc. It may be stimulative.

If the substances get in the eye, rinse with plenty of water immediately. When symptoms are noticeable, consult a physician.

• Never throw the used cartridge and toner into fire. You may be burned due to dust explosion.

Handling of Service Materials

• Unplug the power cord from the wall outlet.

Drum cleaner (isopropyl alcohol) and roller cleaner (acetone-based) are highly flammable and must be handled with care. A risk of fire exists.

 Do not replace the cover or turn the product ON before any solvent remnants on the cleaned parts have fully evaporated.

A risk of fire exists.

Handling of Service Materials

discomfort.

$\underline{\wedge}\,\text{CAUTION}$

Use only a small amount of cleaner at a time and take care not to spill any liquid. If this happens, immediately wipe it off. A risk of fire exists.
When using any solvent, ventilate the room well. Breathing large quantities of organic solvents can lead to

[4] Used Batteries Precautions

ALL Areas

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Germany

VORSICHT!

Explosionsgefahr bei unsachgemäßem Austausch der Batterie. Ersatz nur durch denselben oder einen vom Hersteller empfohlenen gleichwertigen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

France

ATTENTION

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.

Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

Denmark

ADVARSEL!

Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

Finland, Sweden

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

VARNING

Explosionsfara vid felaktigt batteribyte.

Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.

Kassera använt batteri enligt fabrikantens instruktion.

Norway

ADVARSEL

Eksplosjonsfare ved feilaktig skifte av batteri.

Benytt samme batteritype eller en tilsvarende type anbefalt av apparatfabrikanten. Brukte batterier kasseres i henhold til fabrikantens instruksjoner.

[5] Laser Safety

• This is a digital machine certified as a class 1 laser product. There is no possibility of danger from a laser, provided the machine is serviced according to the instruction in this manual.

5.1 Internal Laser Radiation

Semiconductor laser	
Maximum average radiation power(*)	28.9 µW
Wavelength	770-795 nm

*:Laser Aperture of the Print Head Unit

- This product employs a Class 3b laser diode that emits an invisible laser beam. The laser diode and the scanning polygon mirror are incorporated in the print head unit.
- The print head unit is NOT A FIELD SERVICE ITEM. Therefore, the print head unit should not be opened under any circumstances.



the U.S.A., Canada (CDRH Regulation)

- This machine is certified as a Class I Laser product under Radiation Performance Standard according to the Food, Drug and Cosmetic Act of 1990. Compliance is mandatory for Laser products marketed in the United States and is reported to the Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration of the U.S. Department of Health and Human Services (DHHS). This means that the device does not produce hazardous laser radiation.
- The label shown to page S-16 indicates compliance with the CDRH regulations and must be attached to laser products marketed in the United States.

• Use of controls, adjustments or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.

Semiconductor laser	
Maximum power of the laser diode	5 mW
Wavelength	770-795 nm

All Areas

• Use of controls, adjustments or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.

Semiconductor lase	r
Maximum power of the laser diode	5 mW
Wavelength	770-795 nm

Denmark

 Usynlig Laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. Klasse 1 laser produkt der opfylder IEC60825 sikkerheds kravene.

Halvlederlaser	
Laserdiodens højeste styrke	5 mW
Bølgelængden	770-795 nm

Finland, Sweden

∕ NARO!

 Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

LOUKAN 1 LASERLAITE KLASS 1 LASER APPARAT

A VAROITUS!

 Laitteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

Puolijohdelaser	
Laserdiodin suurin teho	5 mW
Aallonpituus	770-795 nm

A VARNING!

 Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

Halvledarlaser	
Den maximala effekten för laserdioden	5 mW
Våglängden	770-795 nm

NARNING!

 Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

Norway

 Dersom apparatet brukes på annen måte enn spesifisert i denne bruksanvisning, kan brukeren utsettes for unsynlig laserstråling som overskrider grensen for laser klass 1.

Halvleder laser	
Maksimal effekt till laserdiode	5 mW
Bølgelengde	770-795 nm

5.2 Laser Safety Label

• A laser safety labels is attached to the outside of the machine as shown below.



5.3 Laser Caution Label

• A laser caution label is attached to the inside of the machine as shown below.



5.4 Precautions For Handling The Laser Equipment

- When laser protective goggles are to be used, select ones with a lens conforming to the above specifications.
- When a disassembly job needs to be performed in the laser beam path, such as when working around the printerhead and PC Drum, be sure first to turn the copier OFF.
- If the job requires that the copier be left ON, take off your watch and ring and wear laser protective goggles.
- A highly reflective tool can be dangerous if it is brought into the laser beam path. Use utmost care when handling tools on the user's premises.

WARNING INDICATIONS ON THE MACHINE

Caution labels shown are attached in some areas on/in the machine.

When accessing these areas for maintenance, repair, or adjustment, special care should be taken to avoid burns and electric shock.







$\underline{\land}$ CAUTION:

 You may be burned or injured if you touch any area that you are advised not to touch by any caution label. Do not remove caution labels. If any caution label has come off or soiled and therefore the caution cannot be read, contact our Service Office.

MEASURES TO TAKE IN CASE OF AN ACCIDENT

- If an accident has occurred, the distributor who has been notified first must immediately take emergency measures to provide relief to affected persons and to prevent further damage.
- 2. If a report of a serious accident has been received from a customer, an on-site evaluation must be carried out quickly and KMBT must be notified.
- 3. To determine the cause of the accident, conditions and materials must be recorded through direct on-site checks, in accordance with instructions issued by KMBT.
- 4. For reports and measures concerning serious accidents, follow the regulations specified by every distributor.

Composition of the service manual

This service manual consists of Theory of Operation section and Field Service section to explain the main machine and its corresponding options.

Theory of Operation section gives, as information for the CE to get a full understanding of the product, a rough outline of the object and role of each function, the relationship between the electrical system and the mechanical system, and the timing of operation of each part.

Field Service section gives, as information required by the CE at the site (or at the customer's premise), a rough outline of the service schedule and its details, maintenance steps, the object and role of each adjustment, error codes and supplementary information.

The basic configuration of each section is as follows. However some options may not be applied to the following configuration.

<Theory of Operation section>

OUTLINE:	Explanation of system configuration, product specifications, unit configuration, and paper path
COMPOSITION/OPERATION:	Explanation of configuration of each unit, operating system, and control system
<field section="" service=""></field>	
GENERAL:	Explanation of system configuration, and product specifications
MAINTENANCE:	Explanation of service schedule, maintenance steps, service tools, removal/reinstallation methods of major parts, and firmware version up method etc.
ADJUSTMENT/SETTING:	Explanation of utility mode, service mode, and mechanical adjustment etc.
TROUBLESHOOTING:	Explanation of lists of jam codes and error codes, and their countermeasures etc.
APPENDIX:	Parts layout drawings, connector layout drawings, timing chart, overall layout drawing are attached.

Notation of the service manual

A. Product name

In this manual, each of the products is described as follows:

(1)	IC board:	Standard printer		
(2)	bizhub 200/250/350:	Main body		
(3)	Microsoft Windows 95:	Windows 95		
	Microsoft Windows 98:	Windows 98		
	Microsoft Windows Me:	Windows Me		
	Microsoft Windows NT 4.0:	Windows NT 4.0 or Windows NT		
	Microsoft Windows 2000:	Windows 2000		
	Microsoft Windows XP:	Windows XP		
	When the description is made in combin	nation of the OS's mentioned above:		
		Windows 95/98/Me		
		Windows NT 4.0/2000		
		Windows NT/2000/XP		
		Windows 95/98/Me/ NT/2000/XP		

B. Brand name

The company names and product names mentioned in this manual are the brand name or the registered trademark of each company.



SERVICE MANUAL

FIELD SERVICE

bizhub Main Unit 200 / 250 / 350

2005.08 KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. Ver. 1.0

Revision history

After publication of this service manual, the parts and mechanism may be subject to change for improvement of their performance.

Therefore, the descriptions given in this service manual may not coincide with the actual machine.

When any change has been made to the descriptions in the service manual, a revised version will be issued with a revision mark added as required.

Revision mark:

- To indicate clearly a section revised, show $\underline{\land}$ to the left of the revised section. A number within $\underline{\land}$ represents the number of times the revision has been made.
- To indicate clearly a section revised, show **(** in the lower outside section of the corresponding page.

A number within **A** represents the number of times the revision has been made.

NOTE

Revision marks shown in a page are restricted only to the latest ones with the old ones deleted.

- When a page revised in Ver. 2.0 has been changed in Ver. 3.0: The revision marks for Ver. 3.0 only are shown with those for Ver. 2.0 deleted.
- When a page revised in Ver. 2.0 has not been changed in Ver. 3.0: The revision marks for Ver. 2.0 are left as they are.

2005/08	1.0	—	Issue of the first edition
Date	Service manual Ver.	Revision mark	Descriptions of revision

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--	---
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3 C2702: Abnormal Image Transfer Voltage	
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General

1. System configuration

1/2 System Front View



- [1] Original Cover (OC-502)
- [2] Stamp Unit (SP-501)
- [3] Reverse Automatic Document Feeder (DF-605)
- [4] Data Controller (D-103)
- [5] Key Counter Kit 4
- [6] Key Counter *1
- [7] Key Counter Mount Kit *2
- [8] Paper Feed Cabinet (PC-402)
- [9] Paper Feed Cabinet (PC-202)
- *1:Key Counter Only
- *2:Mount Pleate Only

- [10] Paper Feed Cabinet (PC-102)
- [11] Desk (DK-501)
- [12] Finisher (FS-508)
- [13] Output Tray (OT-601)
- [14] Saddle Sticher (SD-502)
- [15] Job Separator (JS-502)
- [16] Punch Unit (PU-501)
- [17] Mailbin Kit (MT-501)

2/2 System Rear View



- [4] Local Interface kit (EK-502)
- [8] Hard Disk (HD-504)

*1:The Expanded Memory Unit and Scanner Unit cannot be mounted at the same time.

2. Product specifications

A. Type

Туре	Desktop/Console (dedicated cabinet or dedicated table)
Copying System	Electrostatic dry powdered image transfer to plain paper
PC Drum Type	OPC (organic photo conductor)
Scanning Density	Equivalent to 600 dpi
Exposure Lamp	cold-cathode tube
Print Density	Main scan: 600 dpi; sub-scan: 600 dpi
Platen	Stationary (mirror scan)
Original Scanning	Scanning in main scanning direction with a CCD
Registration	Rear left edge
Paper Feeding System (Standard) Three-way system	Multiple Bypass: 150 sheets Tray1: 500 sheets Tray2: 500 sheets
Exposure System	Electrostatic dry powdered image transfer to plain paper with a laser
Developing System	HMT developing system
Charging System	Comb electrode with scorotron system
Image Transfer System	Image transfer roller system
Paper Separating System	Separator fingers
Fusing System	Heat roller

B. Functions

Types of Original	Sheets, books, and three-dimensional objects									
Max. Original Size	A3 or 11 × 17									
Multiple Copies	1 to 999	l to 999								
Warming-up Time	14 sec. or less (when the Auxiliary Power Switch is turned ON from a stabilized state, in which the Main Power Switch is ON and Auxiliary Power Switch is OFF, with the rated power source voltage and at a room temperature of 23°C)									
Image Loss	Leading edge: 4 mm (1/4 inch), Trailing edge: 4 mm (1/4 inch), Rear edge: 4 mm (1/4 inch), Front edge: 4 mm (1/4 inch)									
Fi t Q Fi	4.8 sec. or less (bizhub 350)									
(Trav1 A4 full size)	5.3 sec. or less (bizhub 250)									
(5.3 sec. or less (bizhub 200)									
System Speed	160 m/s (bizhub 350)									
System Speed	140 m/s (bizhub 250, bizhub 200)									
Copying Speed for	35 copies/min (bizhub 350)									
Multi-copy Cycle	25 copies/min (bizhub 250)									
(A4, 8-1/2 × 11)	20 copies/min (bizhub 200)									
	Full size	x1.000								
Fixed Zoom Ratios	Reduction	Metric Area: x0.500, x0.707, x0.816, x0.930 Inch Area: x0.500, x0.647, x0.733, x0.785, x0.930								
	Enlargement	Metric Area: x1.154, x1.414, x2.000 Inch Area: x1.214, x1.294, x1.545, x2.000								
Variable Zoom Ratios	×0.250 to ×4.000	in 0.001 increments								

C. Types of Paper

	Dopor Sourco	Paper Source									
	Faper Source	Tray1	Tray2	Multiple Bypass							
	Plain paper (56 to 90 g/m² / 15 to 24 lb)	О	О	О							
	Translucent paper	-	-	-							
	OHP transparencies	-	-	0							
Copy paper type	Thick paper (91 to 210 g/m² / 24-1/4 to 55-3/4 lb)	-	-	О							
	Postcards	-	-	О							
	Envelopes	-	-	О							
	Labels	-	-	О							
	Thin Paper (50 to 55 g/m² / 13-1/4 to 14-3/4 lb)	-	-	О							
Copy paper dimensions	Max. (width \times length)	297 to 4 11.5 x 16	297 to 432 mm 11 × 17 inches								
	Min. (width × length)	148 to 2 5.75 x 8.2	90 to 140 mm 3.5 x 5.5 inches								

O: Reliably fed -: Feeding prohibited

D. Maintenance

	1200,000 prints or 5 years, whichever is earlier (bizhub 350)
Machine Durability	800,000 prints or 5 years, whichever is earlier (bizhub 250)
	500,000 prints or 5 years, whichever is earlier (bizhub 200)

E. Machine Specifications

Power Requirements	Voltage	AC 120 V, 220 - 240 V						
Tower Requirements	Frequency	50/60 Hz						
Max Power Consump- tion	120 V: 1380 W ± 10 % 200 V: 1300 - 1470 W ± 10	9%						
Dimensions	677 (W) x 710 (D) x 718 (H	577 (W) x 710 (D) x 718 (H) mm						
Space Requirements	687 (W) x 710 (D) mm *1	687 (W) x 710 (D) mm *1						
Mass	74 kg (including the Duplex Unit, Switchback Unit, and Imaging Unit)							

*1: Space requirements represent the dimensions of the machine when the Multi Bypass Tray is lowered.

F. Operating Environmen

Temperature	10 to 32 $^\circ\text{C}$ / 50 to 89.6° F (with a fluctuation of 10° C / 18° F or less per hour)
Humidity	15 to 85 % (with a fluctuation of 20 %/h)

3. Built-in Controllers

_										
Туре	Built-in type controller	Built-in type controller								
CPU	RM5231	R5231								
Printer Driver	PCL5e Emulation PCL6 (XL Ver. 2.1)Emulation PostScript3 Emulation (3011.xx.xx)									
Scan Driver	TWAIN driver									
	Server	Windows NT4.0 sp6 / 2000 / 2003								
OS Compatibility	Client Windows 98SE / Me Windows 2000 / XP Windows NT4.0 sp6 Linux (2nd-compliant) Macintosh OS 9.2 or later / OS X 10.2 or la									
Interface	Ethernet (10 Base-T/100 E USB 2.0/1.1	ase-TX)								

NOTE

• These specifications are subject to change without notice.

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Maintenance

4. Periodical check

4.1 Service schedule

4.1.1 bizhub 350

Guarantee period (5-year or 1,200,000 prints)

	Per cycle × print		×10,000-print														Number	
	number	10	15	20	30	40	45	50	60	70	75	80	90	100	105	110	120	of times
	100,000	•		•		٠		٠		٠		•		٠		٠	٠	9
	150,000		•		٠		٠		•		•		•		•		٠	8
Main	300,000				٠				•				•				٠	4
body	400,000					٠						•					٠	3
	450,000						٠						•					2
	900,000												•					1

4.1.2 bizhub 250

Guarantee period (5-year or 800,000 prints)

	Per cycle × print	×10,000-print														Number	
	number	8	15	16	24	30	32	40	45	48	56	60	64	72	75	80	of times
	80,000	•		•	•		•	•		•	•		•	•		•	10
Main body	150,000		٠			•			•			٠			•		5
	300,000					•						٠					2
	320,000						•						٠				2
	450,000								•								1

4.1.3 bizhub 200

Guarantee period (5-year or 500,000 prints)

	Per cycle × print					×10,00	0-print	t				Number	
	number	6.5	13	15	19.5	26	30	32.5	39	45	45.5	of times	
	65,000	•	٠		•	٠		•	٠		•	7	
	150,000			•			٠			٠		3	
body	260,000					٠						1	
20u)	300,000						٠					1	
	450,000									•		1	

4.1.4 Option

Guarantee period (5-year or 1,200,000 prints)

	Per cvcle									×	10,0	00-	print	t								Num
	× print number	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	ber of times
PC-102 PC-202 PC-402	300,000						•						•						•			3
	50,000	•	٠	•	٠	٠	٠	٠	•	٠	•	٠	٠	•	٠	٠	٠	٠	٠	٠	٠	20
DI -005	200,000				٠				•				٠				٠				٠	5
FS-508 MT-501 SD-502	300,000						•						•						•			3

4.2 Maintenance items

4.2.1 bizhub 350

A. Periodical parts replacement 1 (per 50,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	•			
3		Pick-up Roller	2		•			
4		Feed Roller	1		•			
5	DE 605	Separation Roller	1		•			
6	DI -005	Rollers and rolls			•			
7		Scanning Guide	1		٠			
8		Reflective Sensor section	1		٠			

B. Periodical parts replacement 2 (per 100,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	٠			
3	Processing	Photo Conductor Unit	1			٠		
4	section	Toner Filter (Developing Unit)	1			•		

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	•			
3	Transport section	Paper Dust Remover	1			•		
4	Image Transfer Section	Transfer Roller Unit	1			•		

C. Periodical parts replacement 3 (per 150,000-print)

D. Periodical parts replacement 4 (per 200,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	٠			
3		Pick-up Roller	2			•		
4	DF-605	Feed Roller	1			•		
5		Separation Roller	1			•		

E. Periodical parts replacement 5 (per 300,000-print)

Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
Overall	Paper take-up and image conditions		•				
	Appearance		•	•			
Bypacc	Feed Roller	1			•		
Буразэ	Separation Roller Assy	1			•		
	Feed Roller	1			•		
Tray 1	Pick-up Roller	1			•		
	Separation Roller Assy	1			•		
	Feed Roller	1			•		
Tray 2	Pick-up Roller	1			•		
	Separation Roller Assy	1			•		
PC-102	Pick-up Roller	1			•		
PC-202	Feed Roller	1			•		
PC-402	Separation Roller Assy	1			•		
FS-508	Rollers and rolls			•			
MT-501	Rollers and rolls			٠			
SD-502	Rollers and rolls			•			
	Class Overall Bypass Tray 1 Tray 2 PC-102 PC-202 PC-202 PC-402 FS-508 MT-501 SD-502	ClassParts to be replacedOverallPaper take-up and image conditionsAppearanceBypassFeed RollerBypassFeed RollerTray 1Pick-up RollerSeparation Roller AssyTray 2Feed RollerPick-up RollerSeparation Roller AssyPC-102Pick-up RollerPC-402Feed RollerFS-508Rollers and rollsMT-501Rollers and rollsSD-502Rollers and rolls	ClassParts to be replacedNumber of personnelOverallPaper take-up and image conditionsPaper take-up and image conditionsAppearancePaper take-up and image conditionsPaper take-up and image conditionsBypassFeed Roller1BypassFeed Roller Assy1Tray 1Feed Roller1Pick-up Roller1Tray 2Feed Roller1Pick-up Roller1Pc-102Pick-up Roller1PC-102Pick-up Roller1PC-402Separation Roller Assy1FS-508Rollers and rolls1MT-501Rollers and rollsSSD-502Rollers and rolls1	ClassParts to be replacedNumber of personnelCheckOverallPaper take-up and image conditions•Appearance•BypassFeed Roller1BypassFeed Roller Assy1Tray 1Feed Roller1Pick-up Roller1Tray 2Feed Roller1Pick-up Roller1Tray 2Feed Roller1PC-102Pick-up Roller Assy1PC-202Feed Roller1PC-402Separation Roller Assy1FS-508Rollers and rolls1MT-501Rollers and rolls1	ClassParts to be replacedNumber of personnelCheckCleanOverallPaper take-up and image conditions•••Appearance•••BypassFeed Roller1·BypassFeed Roller Assy1·Tray 1Feed Roller1·Pick-up Roller1··Tray 2Feed Roller1·Pick-up Roller1··Tray 2Feed Roller1·Pc-102Pick-up Roller1·PC-102Pick-up Roller1·PC-402Separation Roller Assy1·FS-508Rollers and rolls··MT-501Rollers and rolls··SD-502Rollers and rolls··	ClassParts to be replacedNumber of personnelCheckCleanReplaceOverallPaper take-up and image conditions••••Appearance•••••BypassFeed Roller1•••BypassFeed Roller Assy1•••Tray 1Feed Roller1•••Pick-up Roller1••••Tray 2Feed Roller1•••Pray 2Feed Roller1•••Pray 3Feed Roller1•••Tray 4Feed Roller1•••Pray 5Feed Roller1•••PC-102 PC-402Pick-up Roller1•••PC-102 PC-402Pick-up Roller1•••Fs-508Rollers and rolls••••SD-502Rollers and rolls••••	ClassParts to be replacedNumber of personnelCheckCleanReplaceLubri- cationOverallPaper take-up and image conditionsAppearanceBypassFeed Roller1BypassFeed Roller1Tray 1Feed Roller1 </td

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F. Periodical parts replacement 6 (per 400,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	٠			
3	Processing	Developing Unit	1			•		
4	section	Toner Filter (Main Unit)	1			•		

G. Periodical parts replacement 7 (per 450,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	•			
3	Fusing section	Fusing Unit	1			•		

H. Periodical parts replacement 8 (per 900,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	٠			
3	Transport	Registration Roller Bearing				•		
4	section	Registration Roller Gear				•		

4.2.2 bizhub 250

A. Periodical parts replacement 1 (per 50,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	٠			
3		Pick-up Roller	2		٠			
4		Feed Roller	1		•			
5		Separation Roller	1		٠			
6	DF-005	Rollers and rolls			٠			
7		Scanning Guide	1		٠			
8		Reflective Sensor section	1		•			

B. Periodical parts replacement 2 (per 80,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	•			
3	Processing	Photo Conductor Unit	1			•		
4	section	Toner Filter (Developing Unit)	1			•		

C. Periodical parts replacement 3 (per 150,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	•			
3	Transport section	Paper Dust Remover	1			•		
4	Image Transfer Section	Transfer Roller Unit	1			•		

D. Periodical parts replacement 4 (per 200,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	•			
3		Pick-up Roller	2			•		
4	DF-605	Feed Roller	1			•		
5	1	Separation Roller	1			•		

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E. Periodical parts replacement 5 (per 300,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		٠	٠			
3	Bypass	Feed Roller	1			•		
4	Dypuoo	Separation Roller Assy	1			•		
5		Feed Roller	1			•		
6	Tray 1	Pick-up Roller	1			•		
7		Separation Roller Assy	1			•		
8		Feed Roller	1			•		
9	Tray 2	Pick-up Roller	1			•		
10		Separation Roller Assy	1			٠		
11	PC-102	Pick-up Roller	1			•		
12	PC-202	Feed Roller	1			•		
13	PC-402	Separation Roller Assy	1			•		
14	FS-508	Rollers and rolls			٠			
15	MT-501	Rollers and rolls			•			
16	SD-502	Rollers and rolls			•			

F. Periodical parts replacement 6 (per 320,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	٠			
3	Processing	Developing Unit	1			•		
4	section	Toner Filter (Main Unit)	1			•		

G. Periodical parts replacement 7 (per 450,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	٠			
3	Fusing section	Fusing Unit	1			•		

4.2.3 bizhub 200

A. Periodical parts replacement 1 (per 50,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	•			
3		Pick-up Roller	2		٠			
4		Feed Roller	1		٠			
5	DE 605	Separation Roller	1		٠			
6	-	Rollers and rolls			٠			
7		Scanning Guide	1		•			
8		Reflective Sensor section	1		٠			

B. Periodical parts replacement 2 (per 65,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	•			
3	Processing	Photo Conductor Unit	1			•		
4	4 section	Toner Filter (Developing Unit)	1			•		

C. Periodical parts replacement 3 (per 150,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	•			
3	Transport section	Paper Dust Remover	1			•		
4	Image Transfer Section	Transfer Roller Unit	1			•		

D. Periodical parts replacement 4 (per 200,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	•			
3		Pick-up Roller	2			•		
4	DF-605	Feed Roller	1			•		
5	1	Separation Roller	1			•		

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E. Periodical parts replacement 5 (per 260,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	•			
3	Processing	Developing Unit	1			•		
4	section	Toner Filter (Main Unit)	1			•		

F. Periodical parts replacement 6 (per 300,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	٠			
3	Bypacc	Feed Roller	1			•		
4	Буразз	Separation Roller Assy	1			•		
5		Feed Roller	1			•		
6	Tray 1	Pick-up Roller	1			•		
7		Separation Roller Assy	1			•		
8		Feed Roller	1			•		
9	Tray 2	Pick-up Roller	1			•		
10		Separation Roller Assy	1			•		
11	PC-102	Pick-up Roller	1			•		
12	PC-202	Feed Roller	1			•		
13	PC-402	Separation Roller Assy	1			•		
14	FS-508	Rollers and rolls			٠			
15	MT-501	Rollers and rolls			•			
16	SD-502	Rollers and rolls			•			

G. Periodical parts replacement 7 (per 450,000-print)

No	Class	Parts to be replaced	Number of personnel	Check	Clean	Replace	Lubri- cation	Descrip- tions
1	Overall	Paper take-up and image conditions		•				
2		Appearance		•	•			
3	Fusing section	Fusing Unit	1			•		

4.3 Maintenance parts

- To ensure that the machine produces good copies and to extend its service life, it is recommended that the maintenance jobs described in this schedule be carried out as instructed.
- Replace with reference to the numeric values displayed on the Life counter.
- The conditions are: A4 or 8-1/2x11, standard mode, and no Sleep.

4.3.1 Replacement parts

A. Main unit

No	Classification	Parts n	ame	Qua ntity	Actual durable cycle *1	Parts No.	Descriptions	Ref in ma	Page this anual
1	Bynass	Feed Roller		1	300 K	4131-3001-XX		b	18
2	Dypaco	Separation Roller Assy		1	300 K	4034-0151-XX		ł	19
3		Feed Roller		1	300 K	4030-3005-XX	Replace	ł	20
4	Tray 1	Pick-up Roller		1	300 K	4030-3005-XX	those three	ł	21
5		Separation Rol	ller Assy	1	300 K	4030-0151-XX	same time.	Ð	23
6		Feed Roller		1	300 K	4030-3005-XX	Replace	ł	25
7	Tray 2	Pick-up Roller		1	300 K	4030-3005-XX	those three	ł	26
8		Separation Rol	ler Assy	1	300 K	4030-0151-XX	i1-XX same time.		28
9		Registration Re	oller Bearing	4	900 K	1164-3549-XX		ł	30
10	Transport	Registration Ro	oller Gear 1	1	900 K	1164-3508-XX		ł	30
	section	Registration Re	oller Gear 2	1	900 K	1164-3515-XX		ł	30
11		Paper Dust Re	mover	1	150 K	4040-0778-XX		łł,	31
12	Fusing section	Fusing Unit		1	450 K	4040-0765-XX	120 V/127 V areas only.	Ą	37
						4040-0766-XX	220 - 240 V areas only.		
				4040-0767-XX		110 V areas only.			
13	Transfer section	Transfer Roller Unit		1	150 K	4040-0760-XX		ł	38
14		Photo	bizhub 350	1	100 K			łł,	39
15		Conductor	bizhub 250	1	80 K	-	*2		
16		Unit	bizhub 200	1	65 K				
17			bizhub 350	1	100 K			łł,	34
18		Developer	bizhub 250	1	80 K	-			
19	Processing		bizhub 200	1	65 K				
20	section	D I I	bizhub 350	1	400 K	4040-0752-XX		łł,	40
21		Developing Unit	bizhub 250	1	320 K	4040-0752-XX	*3		
22		bizhub 20		1	260 K	4040-0752-XX			
23		Toner Filter	bizhub 350	1	100 K	4040-5217-XX		9	32
24		(Developing	bizhub 250	1	80 K	4040-5217-XX	*2		
25		Unit)	bizhub 200	1	65 K	4040-5217-XX			

-								
No	Classification	Parts n	ame	Qua ntity	Actual durable cycle *1	Parts No.	Descriptions	Ref.Page in this manual
26	Dracasing	Tonor Filtor	bizhub 350	1	400 K	4040-2093-XX		e 33
27	section	(Main Unit)	bizhub 250	1	320 K	4040-2093-XX	*3	
28		(bizhub 200	1	260 K	4040-2093-XX		
29		Ozone Filter		1	300 K	4011-2031-XX		e 33

*1: Actual durable cycle is the Special Parts Counter value.

*2: The Photo Conductor Unit and Toner Filter (Developing Unit) should be replaced with new ones at the same time.

*3: The Developing Unit and Toner Filter (Main Unit) should be replaced with new ones at the same time.

B. Option

No	Classification	Parts name	Qua ntity	Actual durable cycle *1	Parts No.	Descriptions	Ref.Page in this manual
1	PC-102	Pick-up Roller	1	300 K	4030-3005-XX	Replace those	
2	PC-202	Feed Roller	1	300 K	4030-3005-XX	three parts at the	*2
3	PC-402	Separation Roller Assy	1	300 K	4030-0151-XX	same time.	
4		Pick-up Roller	1	200 K	4344-5003-XX	Replace those	
5	DF-605	Feed Roller	1	200 K	4582-3014-XX	three parts at the	
6		Separation Roller	1	200 K	4582-3047-XX	same time.	
7	SP-501	Spare TX Marker Stamp 2	1	As required	-	Ink running out	

*1: Actual durable cycle is the Special Parts Counter value.

*2: See each Option Service Manual.

4.3.2 Cleaning parts

No	Classification	Parts name	Actual durable cycle *1	Descriptions	Ref.Page in this manual
1		Pick-up Roller	50 K		
2	DF-605	Feed Roller	50 K		*0
3		Separation Roller	50 K		
4		Misc. rollers and rolls	50 K		2
5		Scanning Guide	50 K		
6		Reflective Sensor section	50 K		
7	FS-508	Rollers and rolls	300 K		*3
8	MT-501	Rollers and rolls	300 K		*4
9	SD-502	Rollers and rolls	300 K		*5

*1: Actual durable cycle is the Special Parts Counter value.

*2: See DF-605 Service manual.

*3: See FS-508 Service manual.

*4: See MT-501 Service manual.

*5: See SD-502 Service manual.

4.4 Concept of parts life

	Description	Life value (Specification value)	Lift stop	
Photo Conductor Unit	The distance through which the Photo Conduc-	100 ^{*1}		
Developer	Developer tor has been rotated is converted to a corre- sponding number of printed pages produced on A4 paper at 4P/J and the life condition is detected when a predetermined value is reached.		Not stopped *2	
Developing Unit	Photo Conductor Unit × 4 times	400 ^{*1}	Not stopped *2	
Fusing Unit	Count the number of times paper is fed out.	450 ^{*1}	Not stopped	

*1: On the bizhub 350

*2: The setting can be changed to "stopped" by using the soft switch of the Tech. Rep. mode.

A. Conditions for Life Specifications Values

 The life specification values represent the number of copies made or figures equivalent to it when given conditions (see the Table given below) are met. They can be more or less depending on the machine operating conditions of each individual user.

Item	Description				
	bizhub 350	bizhub 250	bizhub 200		
Job Type	4 page/Job	4 page/Job 3 page/Job			
Paper Size	A4				
Original Density	B/W ratio: 6 %				
Average Copy Volume (copies/month)	7,000	4,000	2,500		

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4.5 Maintenance procedure (Periodical check parts)

4.5.1 Replacing the Bypass Tray Feed Roller

- 1. Remove the Multi Bypass Unit.
- e 71









2. Remove five screws [1] and the Manual Bypass Unit Lower Frame [2].

3. Remove two screws [3] and the Feed Roller Cover [4].

4. Snap off the C-clip [5] for the Feed Roller, and remove the bearing. [6].

- 5. Snap off the C-clip [7], and remove the Bypass Feed Roller [8].
- 6. To reinstall, reverse the order of removal.
- Select [Tech. Rep. Mode] → [Counter] → [Special Parts Counter] → [Bypass] and clear the counter.

NOTE

• Replace the Bypass Feed Roller and the Bypass Separation Roller Assy at the same time.

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4.5.2 Replacing the Bypass Tray Separation Roller Assy

- 1. Remove the Multi Bypass Unit.
- *s* 71





 Remove two screws [1], and remove Bypass Paper Separation Roller fixing bracket Assy [2].

- 3. Snap off the C-clip [3], and remove the spring [4] and the guide plate [5]. Remove the Bypass Paper Separation Roller Assy [6].
- 4. To reinstall, reverse the order of removal.
- Select [Tech. Rep. Mode] → [Counter] → [Special Parts Counter] → [Bypass] and clear the counter.

NOTE

• Replace the Bypass Feed Roller and the Bypass Separation Roller Assy at the same time.

4.5.3 Replacing the Tray 1 Feed Roller









1. Remove the screw [1] and, holding the stopper [2], remove Tray 1 [3].

2. Remove two screws [4] and the Connector Cover [5].

- 3. Remove the Connector [6].
- 4. Remove two screws [7] and the Tray 1 Feed Roller Assy [8].

5. Remove four screws [9] and the Tray 1 Feed Roller Assy Cover [10] and the Tray 1 Separator Roll Assy [11].







6. Remove the C-clip [12] and the bearing [13].

- 7. Remove the C-clip [14], E-ring [15], bearing [16] and spring [17] to remove the Tray 1 Feed Roller Assy [18].
- 8. Remove the C-clip [19] and the Tray 1 Feed Roller [20].
- 9. To reinstall, reverse the order of removal.
- 10. Select [Tech. Rep. Mode] \rightarrow [Counter] → [Special Parts Counter] \rightarrow [Tray 1] and clear the counter.





4. Periodical check

1. Remove the screw [1] and, holding the stopper [2], remove Tray 1 [3].

2. Remove two screws [4] and the Connector Cover [5].





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- 3. Remove the Connector [6].
- Remove two screws [7] and the Tray 1 Feed Roller Assy [8].

5. Remove four screws [9] and the Tray 1 Feed Roller Assy Cover [10] and the Tray 1 Separator Roll Assy [11].

 Remove two C-clips [12] and two bearings [13]. Then, remove the Pick-up Roller Assy [14].

- 7. Remove one C-clip [15] and the Tray 1 Pick-up Roller [16].
- 8. To reinstall, reverse the order of removal.
- Select [Tech. Rep. Mode] → [Counter] → [Special Parts Counter] → [Tray 1] and clear the counter.

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4.5.5 Replacing the Tray 1 Separation Roller Assy









1. Remove the screw [1] and, holding the stopper [2], remove Tray 1 [3].

4. Periodical check

2. Remove two screws [4] and the Connector Cover [5].

- 3. Remove the Connector [6].
- 4. Remove two screws [7] and the Tray 1 Feed Roller Assy [8].

5. Remove four screws [9] and the Tray 1 Feed Roller Assy Cover [10] and the Tray 1 Separator Roll Assy [11].





6. Remove two Screws [12] and the Tray 1 Separation Roller installation plate Assy [13].

7. Remove two C-clips [14] and the Tray 1 Separation Roller installation plate [15].

- Remove the C-clip [16] and the Tray 1 Separation Roller Assy [17].
- 9. To reinstall, reverse the order of removal.
- Select [Tech. Rep. Mode] →
 [Counter] → [Special Parts Counter]
 → [Tray 1] and clear the counter.

NOTE

 Install the Tray 1 Separation Roller Mounting Bracket Assy [18] while pressing the holder up so that it coheres to the metal bracket of the copier.

4.5.6 Replacing the Tray 2 Feed Roller











- 1. Slide out the Tray 2.
- 2. Remove the Multi Bypass Unit.
- e 71
- 3. Remove the Lower Right Cover [1].
- 4. Remove two screws [2] and the Transport Roller Cover [3].

5. Remove two screws [2] and the Misfeed Clearing Cover [5].

- 6. Unplug two connectors [6].
- 7. Remove three screws [7] and the Tray 2 Feed Roller Assy [8].

 Remove four screws [9] and the Cclip [10]. Then, remove the Tray 2 Feed Roller Cover [11], the Tray 2 Separation Roller Assy [12], and the Tray 2 Feed Roller Clutch [13].







4.5.7 Replacing the Tray 2 Pick-up Roller





9. Remove two C-clips [14] and the bearing [15].

- 10. Remove the C-clip [16], E-ring [17], bearing [18] and spring [19] to remove the Tray 2 Feed Roller Assy [20].
- 11. Remove the C-clip [21] and the Tray 2 Feed Roller [22].
- 12. To reinstall, reverse the order of removal.
- Select [Tech. Rep. Mode] →
 [Counter] → [Special Parts Counter]
 → [Tray 2] and clear the counter.
- 1. Slide out the Tray 2.
- 2. Remove the Multi Bypass Unit.
- *s* 71
- 3. Remove the Lower Right Cover [1].
- 4. Remove two screws [2] and the Transport Roller Cover [3].

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5. Remove two screws [2] and the Misfeed Clearing Cover [5].

- 6. Unplug two connectors [6].
- 7. Remove three screws [7] and the Tray 2 Feed Roller Assy [8].

- Remove four screws [9] and the Cclip [10]. Then, remove the Tray 2 Feed Roller Cover [11], the Tray 2 Separation Roller Assy [12], and the Tray 2 Feed Roller Clutch [13].
- Remove two C-clips [14] and two bearings [15]. Then, remove the Tray 2 Pick-up Roller Assy [16].

- 10. Remove the C-clip [17] and the Tray 2 Pick-up Roller [18].
- 11. To reinstall, reverse the order of removal.
- 12. Select [Tech. Rep. Mode] →
 [Counter] → [Special Parts Counter]
 → [Tray 2] and clear the counter.

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4.5.8 Replacing the Tray 2 Separation Roller











- 1. Slide out the Tray 2.
- 2. Remove the Multi Bypass Unit.
- *s* 71
- 3. Remove the Lower Right Cover [1].
- 4. Remove two screws [2] and the Transport Roller Cover [3].

5. Remove two screws [2] and the Misfeed Clearing Cover [5].

- 6. Unplug two connectors [6].
- 7. Remove three screws [7] and the Tray 2 Feed Roller Assy [8].

 Remove four screws [9] and the Cclip [10]. Then, remove the Tray 2 Feed Roller Cover [11], the Tray 2 Separation Roller Assy [12], and the Tray 2 Feed Roller Clutch [13].

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- Remove two Screws [14] and the Tray 2 Separation Roller installation plate Assy [15].
 - 10. Remove two C-clips [16] and the Tray 2 Separation Roller installation plate [17].

- 11. Remove the C-clip [18] and the Tray 2 Separation Roller Assy [19].
- 12. To reinstall, reverse the order of removal.
- Select [Tech. Rep. Mode] →
 [Counter] → [Special Parts Counter]
 → [Tray 2] and clear the counter.

NOTE

 Install the Tray 2 Separation Roller Mounting Bracket Assy [20] while pressing the holder up so that it coheres to the metal bracket of the copier.









4.5.9 Replacing of the Registration Roller Bearings and Registration Roller Gears 1, 2











1. Open the Right Door [1].

 Remove two E-rings [2], Registration Roller Gears 1 [3] and Registration Roller Gears 2 [4].

3. Remove the screw [5] and the ground plate [6].

- When reinstalling the ground plate, make sure that the ground plate [7] is in contact with the side faces of the bushings [8].
- 4. Remove the spring [9] and two Registration Roller Bearings [10].

NOTE

• When reinstalling the bearings, make sure that the flanges of the bearings are on the outside.

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[14]

[18]

[15]

- 5. Remove the E-ring [11] and unplug the connector [12]. Then, remove the Registration Roller Clutch [13].
- 6. Remove the washer [14] and two wave washers [15].

 Remove the spring [16], two E-rings [17], and two Registration Roller Bearings [18].

NOTE

[12] ___[13]

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[17]

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[11]

• When reinstalling the bearings, make sure that the flanges of the bearings are on the outside.



[16]





1. Open the Right Door [1].

2. Remove the Paper Dust Removal [2].

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4.5.11 Replacing of the Toner Filter (Developing Unit)







- 1. Open the Right Door.
- 2. Remove the IU [1].

3. Remove the Toner Filter Cover [2].

4. Remove the Toner Filter (Developing Unit) [3].

NOTE

• Replace the Photo Conductor Unit with a new one at the same time.

4.5.12 Replacing of the Toner Filter (Main Unit)





4.5.13 Replacement of the Ozone Filter



1. Remove the screw [1] and the Toner Filter Rear Cover [2].

2. Pull on the tape portion [3] and peel off the Toner Filter (Main Unit) [4].

NOTE

- When mounting the filter, not the correct mounting position that is shown on the left.
- Replace the Developing Unit with a new one at the same time.

- 1. Remove the Upper Rear Cover.
- e 50
- 2. Remove the Rear Cover.
- e 51
- 3. Remove the Ozone Filter [1].
4.5.14 Replacement of the Developer

- 1. Select Tech. Rep. Mode \rightarrow [Counter] \rightarrow [Special Parts Counter] \rightarrow [PC Life].
- 2. Press the Clear key to clear the counter value.
- 3. Turn OFF the main power switch.

NOTE

- Clear the PC Life counter before removing the IU.
- After clearing the PC Life counter, be sure to turn OFF the main power switch.





 Remove four screws (silver) [2] and disassemble the Photo Conductor Unit [3] and the Developing Unit [4].

4. Open the Right Door.

5. Remove the IU [1].

[6] [5] [5] [5] [6] [5] [5] [5] [5]



7. Remove three screws [5] and the Developer Scattering Prevention Plate [6].

8. Remove the Toner Supply Port [7].

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Removal of the Developer

9. Remove the developer [8].

- Dump the developer on the Sleeve Roller by rotating the gear in the direction of the arrow.
- If you rotate the gear in reverse, mylar for cleaning the ATDC Sensor.
- Dump developer until almost no developer sticks to the Sleeve Roller.
- 10. Set the developer [9] while rotating the gear in the direction of the arrow.

11. Reinstall the Toner Supply Port [10].

12. Using three screws [11], secure the Developer Scattering Prevention Plate [12].

4. Periodical check



- 13. Install the four screws [13] to secure the Photo Conductor Unit [14] and Developing Unit [15].
- 14. Install the IU in the copier.

15. Turn ON the main power switch.

16. Select Tech. Rep. Mode \rightarrow [Function] \rightarrow [F8] and press the Start key. NOTE

[13]

- After replacing the developer, be sure to execute F8 under Function of Tech. Rep. Mode.
- When the main power switch is turned ON, execute F8 quickly.

Replacing the unit

Replacement of the Fusing Unit

replaced as an individual part with a new one.

4.6

4.6.1

A CAUTION

[2]

Maintenance

[1] 4040F2C560DA







- 1. Open the Right Door.
- 2. Remove the Rear Right Cover.
- e 50

 From the safety viewpoint, the Fusing Unit is replaced as a unit. No parts intended for other models should be used for the Fusing Unit of this machine. Note, however, that the thermistor and several other parts mentioned in this machine may be

- 3. Remove the screw [1] and the Front Right Cover [2].
- 4. Unplug two connectors [3] of the Switch Back Unit.

- 5. Loosen the screw [4] in front.
- 6. Remove the screw [5] in front.
- 7. Loosen the screw [6] in the back.
- 8. Remove the screw [7] in the back.
- 9. Remove the Switch Back Unit [8].





10. Remove the screw [9] and the Connector Cover [10].

11. Remove two screws [11] and unplug three connectors [12]. Then, remove the Fusing Unit [13].

4.6.2 Replacement of the Transfer Roller Unit



- 1. Open the Right Door.
- 2. Pull down the knobs [1] forward and remove the Transfer Roller [2].

4.6.3 Replacement of the Photo Conductor Unit

- 1. Select Tech. Rep. Mode \rightarrow [Counter] \rightarrow [Special Parts Counter] \rightarrow [PC Life].
- 2. Press the Clear key to clear the counter value.
- 3. Turn OFF the main power switch.

NOTE

- Clear the PC Life counter before removing the IU.
- After clearing the PC Life counter, be sure to turn OFF the main power switch.





- 4. Open the Right Door.
- 5. Remove the IU [1].

- Remove four screws (silver) [2] and disassemble the Photo Conductor Unit [3] and the Developing Unit [4].
- 7. Replace the Photo Conductor Unit [3].
- 8. To reinstall, reverse the order of removal.

NOTE

• Replace the Toner Filter (Developing Unit) with a new one at the same time. bizhub 200/250/350

4.6.4 Replacement of the Developing Unit

- 1. Select Tech. Rep. Mode \rightarrow [Counter] \rightarrow [Special Parts Counter] \rightarrow [Developer].
- 2. Press the Clear key to clear the counter value.
- 3. Turn OFF the main power switch.

NOTE

- Clear the Developer counter before removing the IU.
- After clearing the Developer counter, be sure to turn OFF the main power switch.







- 4. Open the Right Door.
- 5. Remove the IU [1].

- Remove four screws (silver) [2] and disassemble the Photo Conductor Unit [3] and the Developing Unit [4].
- 7. Replace the Developing Unit [4].
- 8. Supply new developer to the new Developing Unit.
- e 34
- Install the four screws [5] to secure the Photo Conductor Unit [6] and Developing Unit [7].
- 10. Install the IU in the copier.

11. Turn ON the main power switch.

12. Select Tech. Rep. Mode \rightarrow [Function] \rightarrow [F8] and press the Start key. **NOTE**

- After replacing the developer, be sure to execute F8 under Function of Tech. Rep. Mode.
- When the main power switch is turned ON, execute F8 quickly.

5. Service tool

5.1 CE Tool list

Tool name	Shape	Personnel	Parts No.	Remarks
Thermistor Holding/Check Jig	4040F2C728DA	1	4040-7901-01	

5.2 Copy materials

5.2.1 Developer

Parts name	Replacing period
bizhub 350	100,000 copies
bizhub 250	80,000 copies
bizhub 200	65,000 copies

5.2.2 Photo Conductor Unit

Parts name	Replacing period
bizhub 350	100,000 copies
bizhub 250	80,000 copies
bizhub 200	65,000 copies

5.2.3 Toner Bottle

Parts name		Replacing period	
hizhuh 350	5,000-copy Copy Kit	5,000 copies	
DIZITUD 330	15,000-copy Toner Kit	15,000 copies	
bizhub 250	5,000-copy Copy Kit	5,000 copies	
bizhub 200	10,000-copy Toner Kit	10,000 copies	

6. Firmware upgrade

6.1 Preparations for Firmware rewriting

6.1.1 Service environment

- Drive which enables writing/reading of Compact flash
- Compact flash (with 32 MB or more)

6.1.2 Writing into the Compact flash

· Copy the firmware files using the computer.

NOTE

- The copying operation should be performed on the files contained in the folder, instead of the folder.
- Copy only those files to be upgraded to the compact flash.
- If wrong firmware is copied, no control panel display is given and thus no firmware can be downloaded.

6.1.3 Checking ROM version

- Before attempting to upgrade the firmware, check the current ROM version.
- e 196

6.2 Firmware rewriting

NOTE

• NEVER attempt to remove or insert the compact flash with the machine power turned ON.

6.2.1 MSC



- 1. Turn OFF the main power switch.
- Remove the Compact flash Cover [1].

 Insert the compact flash card [2], in which only the MSC upgrading files have been written, into the slot.

NOTE

• Make sure that this compact flash card contains only the upgrading firmware of the MSC, and not that of the engine or Finisher.

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NOTE

- Be sure to turn ON the sub power switch first before turning ON the main power switch.
- 4. Turn ON the main power switch.





- 8. Turn ON the main power switch.
- 9. Call the Tech. Rep. Mode to the screen.
- e 148
- 10. Select [ROM Version].
- 11. Make sure if the version of Firmware is updated.

- 5. The firmware upgrading sequence will start.
- When the upgrading sequence is completed, which is notified by the message "FINISH" appearing on the screen, turn OFF the main power switch.

NOTE

- NEVER turn OFF the main power switch until the message "FINISH" appears on the screen.
- 7. Remove the Compact Flash [2] card from the slot.

6.2.2 Engine

NOTE

- Make sure that the MSC firmware has not been copied to the compact flash card.
- To upgrade both the engine firmware and Finisher firmware at the same time, they must first be copied onto a single compact flash.
- Tor the Finisher firmware upgrading procedures, see FS-508 Service Manual.
- If the files copied to the compact flash card are those of either the engine or Finisher, or wrong, no screen display is given and thus no firmware can be downloaded.







Function	END
F1	F2
F7-1	F12
Hard Disk Format	FD
FN Download	Detect Adjust
	4040F2E766DA

- 1. Turn OFF the main power switch.
- 2. Remove the Compact flash Cover [1].

 Insert the compact flash card [2], to which the engine upgrading files have been copied, into the slot.

- 4. Open the Right Door. **NOTE**
- Be sure to open the Right Door before turning ON the main power switch.
- 5. Turn ON the main power switch.
- 6. Call the Tech. Rep. Mode to the screen.
- e 148
- 7. Touch [Function].
- 8. Touch [FW Download].









- 14. Call the Tech. Rep. Mode to the screen.
- e 148
- 15. Select [ROM Version].
- 16. Make sure if the version of Firmware is updated.

9. Select [Engine] and touch [Enter]. **NOTE**

- Touch [Finisher] also if the Finisher firmware is to be upgraded at the same time.
- 10. Select [Yes] and touch [Enter].

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11. The firmware upgrading sequence will start.

NOTE

- The firmware upgrading sequence will last for 5 to 6 min. During this period, NEVER turn off the machine power.
- If the Finisher firmware is also upgraded, the entire sequence will take about 10 to 11 min.
- 12. When the upgrading sequence is completed, turn OFF the main power switch.

13. Remove the compact flash card [2] from the slot. After some while thereafter, turn ON the main power switch.

7. Other

7.1 Disassembly/Adjustment prohibited items

- A. Screws to which blue paint or green paint is applied
- Blue paint or green paint is applied to some screws to prevent them from coming loose.
- As a general rule, screws to which blue paint or green paint is applied should not be removed or loosened.
- B. Red-painted screws
- Do not remove or loosen any of the red-painted screws in the field. It should also be noted that, when two or more screws are used for a single part, only one representative screw may be marked with the red paint.
- C. Variable Resistors on Board

NOTE

• Do not turn the variable resistors on boards for which no adjusting instructions are given in Adjustment/Setting.

D. Removal of PWBs

- When removing a circuit board or other electrical component, refer to "SAFETY AND IMPORTANT WARNING ITEMS" and follow the corresponding removal procedures.
- The removal procedures given in the following omit the removal of connectors and screws securing the circuit board support or circuit board.
- Where it is absolutely necessary to touch the ICs and other electrical components on the board, be sure to ground your body.

7.2 Disassembly/Assembly/Cleaning list (Other parts)

7.2.1 Disassembly/Assembly parts list

No	Section	Part name	Re	f.Page
1	1 2 3 4	Original Scanning Glass	ł	49
2		Original Glass	Ą	49
3		Front Holding Bracket	Ą	49
4		Control Panel	Ą	56
5		Upper Front Cover	Ą	53
6		Front Cover	Ą	53
7		Front Door	ł	51
8		Lower Front Cover	ł	52
9		Paper Output Cover	ł	52
10		Left Cover	ł	54
11		Rear Left Cover	ł	54
12		Front Right Cover	ł	50
13	Exterior porto	Rear Right Cover	ł	50
14	Exterior parts	Lower Right Rear Cover	ł	49
15		Lower Right Cover	ł	55
16		Rear Cover	Ą	51
17		Upper Rear Cover	ł	50
18		Lower Rear Cover	Ą	49
19		Tray 1	Ą	56
20		Tray 2	Ą	57
21		Tray Rear Cover	Ą	49
22		Front Manual Bypass Cover	Ą	55
23		Rear Manual Bypass Cover	Ą	55
24		IR Right Cover	Ą	51
25		IR Left Cover	Ą	54
26		IR Upper Left Cover	Ą	49
27		Mechanical Control Board Cover	Ą	57
28		MFBS Board	Ą	62
29		Inverter Board	Ą	63
30		BCRS Board	Ą	64
31	1 Boord and ata	CCD Unit	Ą	65
32	board and etc.	FD Paper Size Board 1	ł	58
33		FD Paper Size Board 2	ł	59
34		High Voltage Unit	æ	61
35		Power Supply Unit	æ	60
36	3	Operation Board	ł	69

No	Section	Part name	Ref.Pag	je
37	-	Manual Bypass Unit	e 71	
38		PH Unit	e 71	
39		Toner Hopper Unit	e 74	
40	Onit	Toner Replenishing Drive Unit	e 74	
41		Duplex Unit	e 76	
42		Switch Back Unit	a 76	
43		Scanner Motor	e 77	
44	ID	Exposure Lamp	a 79	
45		Exposure Unit	a 78 a	
46		Scanner Drive Cables	@ 80	
47		Main Motor	er 85	
48		IU Motor	85 🖉	
49	Othors	Fusing Unit Cooling Fan Motor	86 👻	
50	Others	Toner Suction Fan Motor	e 86	
51		Temperature/humidity Sensor	e 87	
52		ATDC Sensor	e 87	
53	Eucing Linit	Thermistor	89 🕗	
54		Paper Exit Roll 1	e 91 🖉	
55		Paper Exit Roll 2	e 91 🖉	
56	3	Separation Claw	e 92 🖉	

7.2.2 Cleaning parts list

No	Section	Part name	Re	f.Page
1	Bypass	Feed Roller	Ą	94
2		Separation Roller	Ą	94
3		Feed Roller	Ą	95
4	Tray1	Pick-up Roller	Ą	96
5		Separation Roller	ę,	97
6		Feed Roller	4	98
7	Tray 2	Pick-up Roller	ę,	98
8		Separation Roller	ę,	99
9		Registration Roller	4	100
10) Transport	Paper Dust Remover	4	100
11		Transport Roller	4	100
12		Scanner rails	ł	101
13	3 4 5 6 7	Bushings	4	101
14		Mirrors	4	101
15		Lens	4	102
16		Original Scanning Glass	4	102
17		Original Glass	ł	102
18	Others	Charge Neutralizing Plate	ł	103
19	9	Ds Collar	Ð	103

7.3 Disassembly/Assembly procedure

7.3.1 IR Upper Left Cover/Original Scanning Glass/Front Holding Bracket/Original Glass



- 1. Remove two Screws [1], and remove the IR Upper Left Cover [2].
- 2. Remove the Original Scanning Glass [3].
- 3. Remove two Screws [4], and remove the Front Holding Bracket [5].
- 4. Remove two Screws [6], and remove the Original Glass [7].

7.3.2 Lower Rear Cover/Lower Right Rear Cover/Tray Rear Cover

- 1. Remove four Screws [1], and remove the Lower Rear Cover [2].
- 2. Remove two Screws [3], and remove the Lower Right Rear Cover [4].



7.3.3 Upper Rear Cover



Rear Right Cover/Front Right Cover

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3. Remove the four screws [5], one wave washer [6], and the Tray Rear Cover [7].

- Make sure that the wave washer is installed at the correct position.
- 1. Remove three screws [1] and, pushing down the actuator [2], remove the Upper Rear Cover [3].



- 1. Open the Right Door.
- 2. Remove two Screws [1], and remove the Rear Right Cover [2].
- 3. Remove the Screws [3], and remove the Front Right Cover [4].

7.3.4

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7.3.5 IR Right Cover/Rear Cover



- 1. Open the Right Door.
- 2. Remove the Upper Rear Cover.
- e 50
- 3. Remove the IR Right Cover [1].
- 4. Remove thirteen Screws [2], and remove the Rear Cover [3].

7.3.6 Front Door



- 1. Open the Front Door [1].
- 2. Remove the screw [2], C-clip [3], and the Front Door [1].

7.3.7 Paper Output Cover/Lower Front Cover



- 1. Open the Front Door [1].
- 2. Remove three screws [2] and the Paper Output Cover [3].





- 3. Slide out the Tray 1.
- 4. Remove two screws [4] and the Connector Cover [5].

- 5. Remove the Front Door.
- æ 51
- 6. Remove six screws [6] and the Lower Front Cover [7].

7.3.8 Upper Front Cover/Front Cover



- 4. Remove the Toner Hopper Unit.
- æ 74
- 5. Remove the Paper Output Cover.
- e 52
- 6. Remove the Front Door.
- æ 51
- 7. Remove the Lower Front Cover.
- æ 52



- 1. Open the Right Door.
- 2. Remove the Front Right Cover.
- e 50
- 3. Remove the screw [1] and the Upper Front Cover [2].

8. Remove five screws [3] and the Front Cover [4].

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7.3.9 IR Left Cover/Rear Left Cover/Left Cover



1. Remove the Upper Rear Cover.

e 50

- 2. Remove the IR Left Cover [1].
- 3. Remove two screws [2] and the Rear Left Cover [3].
- 4. Remove the Rear Cover.
- e 51
- 5. Remove the Paper Output Cover.
- æ 52
- 6. Remove three screws [4] and the Left Cover [5].

7.3.10 Rear Manual Bypass Cover/Front Manual Bypass Cover/Lower Right Cover



- 1. Remove two screws [1] and the Rear Manual Bypass Cover [2].
- 2. Remove the screw [3] and the Front Manual Bypass Cover [4].
- 3. Remove the Manual Bypass Unit.
- æ 71
- 4. Remove two tabs [5] and the Lower Right Door Cover [6].











1. Remove two screw covers [1].

2. Remove the four screws [2] on the sides of the Control Panel.

3. Disconnect the connector [3] and remove the Control Panel [4].

- 1. Slide out the Tray 1 [3].
- Remove the screw [1] and, holding the stopper [2], remove the Tray 1 [3].

7.3.13 Tray 2



7.3.14 Mechanical Control Board Cover

- 1. Remove the Upper Rear Cover.
- e 50
- 2. Remove the Rear Cover.
- e 51





3. Remove five screws [1] and the Mechanical Control Board Cover [2].

4. Unplug the all connectors.

1. Slide out the Tray 2 [1].

[1].

2. Remove the screw [2] and, holding the stopper [3], remove the Tray 2

5. Remove five screws [3] and the Mechanical Control Board [4].

NOTE

• When replacing the Mechanical Control Board, be sure to replace the EEPROM.

e 110

• When the Mechanical Control Board has been replaced with a new one, check the ROM version and upgrade the firmware to the latest version.



7.3.15 FD Paper Size Board 1

- 1. Remove the Upper Rear Cover.
- æ 50
- 2. Remove the Rear Cover.
- æ 51



- 4. Remove the Tray 1.
- e 56







3. Remove five screws [1] and the Mechanical Control Board Cover [2].

 Disconnect two connectors (PJ23, PJ24) [3] from the Mechanical Control Board.

6. Remove two screws [4] and the Lift-Up Assy [5].

7. Remove four tabs [6] and the FD Paper Size Board Assy [7].

Maintenance

7.3.16 FD Paper Size Board 2

- 1. Remove the Upper Rear Cover.
- æ 50
- 2. Remove the Rear Cover.
- æ 51



- 4. Remove the Tray Rear Cover.
- æ 49
- 5. Remove the Lower Rear Cover.
- e 49
- 6. Remove the Tray 2.
- e 57







 Remove five screws [1] and the Mechanical Control Board Cover [2].

 Disconnect two connectors (PJ25, PJ26) [3] from the Mechanical Control Board.

8. Remove two screws [4] and the Lift-Up Assy [5].

9. Remove four tabs [6] and the FD Paper Size Board Assy [7].

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- 7.3.17 **Power Supply Unit**
- 1. Remove the Paper Output Cover.
- 52 Ŧ
- 2. Remove the Upper Rear Cover.
- 50 æ
- 3. Remove the Rear Cover.
- 51 æ
- 4. Remove the Rear Left Cover.
- Ŧ 54
- 5. Remove the Left Cover.
- 54 æ







6. Remove seven screws [1] and the Power Supply Unit Cover [2].

7. Remove two screws [2] and the Power Supply Cooling Fan Motor [4].

- 8. Unplug seven connectors [5] and remove three screws [6] and the Power Supply Unit Assy [7].
- At reinstallation, make sure that the harness is not slack.

7.3.18 High Voltage Unit

- 1. Open the Right Door.
- 2. Remove the Imaging Unit.
- 3. Remove the Upper Rear Cover.
- e 50
- 4. Remove the Rear Cover.
- æ 51
- 5. Remove the Toner Suction Fan Motor.
- æ 86







 Remove the screw [1] and unhook two tabs [2] on the rear side surface. Then, remove the Toner Suction Duct [3].

 Unplug the connector [4] and remove two screws [5] and the High Voltage Unit Cover [6].

8. Unplug four connectors [7] and remove two screws [8] and the High Voltage Unit [9].

7.3.19 MFBS Board

- 1. Remove the Upper Rear Cover.
- e 50
- 2. Remove the IR Right Cover.
- æ 51









3. Unplug the connector (CN7) [1].

NOTE

- If the Fax Kit is mounted, disconnect the two connectors (CN7 [1], CN6 [2]).
- 4. Remove three screws [3] and the MFBS Board Assy [4].

- Remove five screws [5] and the MFBS Board mounting bracket [6].
 NOTE
- Remove the Hard Disk if one is mounted.
- Remove the stopper, RAMS Board [7], and MEMS Board [8].
- 7. Remove the MFBS Board [9].

NOTE

 Remove the MEM Board [10] if mounted in the expansion slot.

7.3.20 Inverter Board

- 1. Remove the IR Upper Left Cover.
- æ 49
- 2. Remove the Front Holding Bracket.
- æ 49
- 3. Remove the Original Glass.
- æ 49



 Disconnect the connector [1] and remove the flat cable [2], screw [3], and the Inverter Board [4].

7.3.21 BCRS Board

- 1. Remove the Upper Rear Cover.
- æ 50
- 2. Remove the IR Upper Left Cover.
- æ 49
- 3. Remove the Front Holding Bracket.
- e 49
- 4. Remove the Original Glass.
- æ 49



[3] The second s



5. Remove four screws [1], flat cable [2], and the BCRS Board cover [3].

6. Unplug eight connectors [3].

7. Remove three screws [4], disconnect the connector [5], and remove the BCRS Board [6].

A. Replacing Procedure

- 1. Remove the IR Upper Left Cover.
- æ 49
- 2. Remove the Front Holding Bracket.
- e 49
- 3. Remove the Original Glass.
- æ 49





4. Remove six screws [1] and the CCD Unit Cover [2].

- Move the Exposure Unit, remove the wiring saddle [3], and disconnect the connector [4].
- Remove two screws [5] and two flat springs [6]. Then, remove the CCD Unit [7].

NOTE

When the CCD Unit has been replaced with a new one, make the installation adjustment that must be made when the CCD Unit is replaced.

B. Installation Adjustment to be Made when CCD Unit is Replaced NOTE

- Make this adjustment only when the CCD Unit has been replaced with a new one.
- Before attempting to make this adjustment, make sure that registration and erase adjustments for the printer have been completed.
- Do not loosen or remove the screws shown below.





 Screw the three adjusting screws [2] into the CCD Unit [1] only to half the thread length of each screw.

 From the bottom side of the CCD Unit, adjust the dimension of the screw thread protrusion to 1.5 mm (at three places).

- 3. Using two screws and a flat spring, install the CCD Unit in position.
- 4. Fit two cables to the CCD Unit.
- 5. Using six screws, install the CCD Unit cover.
- 6. Install the Original Glass, Front Holding Bracket and IR Upper Left Cover.

NOTE

• The CCD Unit is to be adjusted through the subsequent procedures and there is no need to tighten the screws of the Original Glass, Front Holding Bracket, and IR Upper Left Cover.





- 7. Turn ON the main power switch.
- If the setting in Scanner Registration or Scanner Zoom Adjust available from the Adjust mode has been changed, set the function to 0 (zero) or 1.000 (zoom ratio).
- 9. Prepare a test chart as shown on the left and make a copy of it.
- 10. Measure tilt and deviation in the FD direction of the produced copy as compared with reference to the reference line in the FD direction of the test chart.
- 11. If there is any tilt or deviation in the FD direction, follow the steps given below to make an adjustment using screws A and B.

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- 12. Measure deviation in the CD direction of the produced copy as compared with reference to the reference line in the CD direction of the test chart.
- 13. If there is any deviation in the CD direction, loosen screws C and D and follow these steps to make an adjustment using adjustment plate E.



- 14. Remove the CCD Unit cover.
- 15. Apply lock paint to adjusting screws A, B, C, and D.
- 16. Reinstall the CCD Unit cover.
- 17. Reinstall the Original Glass, Front Holding Bracket and IR Upper Left Cover.
- 18. Reinstall all covers that have been removed.

7.3.23 Operation Board

- 1. Remove the Operation Panel.
- e 56









- 2. Disconnect two connectors [1] and remove three flat cables [2]
- 3. Remove two screws [3] and the Operation Board 1 [4].

4. Remove two screws [5] and the Bracket [6].

5. Remove ten screws [7] and the Operation Key Board 1 [8].

 Remove two screws [9], connector [10], and the Operation Key Board 2 [11].


[19]

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 Remove the screw [12], two connectors [13], and the Operation Board 2 [14].

8. Remove two screws [15] and the Bracket [16].

9. Remove two screws [17] and the LCD Board Cover [18].

10. Remove four screws [19] and the LCD Board [20].

7.3.24 Manual Bypass Unit

- 1. Remove the Rear Right Cover.
- e 50
- 2. Remove the Lower Right Rear Cover.
- æ 49
- 3. Remove the Front Manual Bypass Cover.
- æ 55
- 4. Remove the Rear Manual Bypass Cover.
- e 55



7.3.25 PH Unit

- 1. Remove the Upper Rear Cover.
- e 50
- 2. Remove the Rear Cover.
- æ 51
- 3. Open the Front Door.
- 4. Remove the Paper Output Cover.
- e 52





 Remove five screws [1] and ground wire [2], disconnect the three connectors [3], and remove the Manual Bypass Unit [4].

NOTE

• When the Manual Bypass Unit has been mounted, be sure to perform the Manual Bypass Unit Installation Check procedures.

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5. Remove nine screws [1] and the PH protective metal bracket [2].

 Remove two screws [3] and the Paper Output Tray Rear Cover [4].



7. Remove four screws [5] and two harness protective metal brackets [6].

8. Remove the harness from the cord holder.

9. Remove five screws [7] and the Mechanical Control Board Cover [8].

10. Remove two flat cables (PJ3, PJ35) [9].

11. Remove three screws [10] and the PH Unit [11].

• When replacing the PH, install spacers according to the color of the labels affixed to the PH.

	Screw Position		
PH label color	A	В	С
Green label	No spacer	No spacer	No spacer
Blue label	No spacer	0.1 mm spacer	0.2 mm spacer
Yellow label	0.2 mm spacer	0.1 mm spacer	No spacer

Spacers Used

	Part No.	Spacer Color
0.1 mm spacer	4030-2053-01	Black
0.2 mm spacer	4030-2054-01	White

Should be screw installation position



7.3.26 Toner Hopper Unit



7.3.27 Toner Replenishing Drive Unit

- 1. Remove the Imaging Unit.
- 2. Remove the Front Door.
- æ 51
- 3. Remove the Paper Output Cover.
- e 52
- 4. Open the Right Door.
- 5. Remove the Front Cover.
- æ 53
- 6. Remove the Lower Front Cover.
- æ 52







- 1. Open the Front Door.
- 2. Remove the screw [1] and the Toner Hopper Unit [2].

7. Remove five screws [1] and the toner hopper protective metal bracket [2].

8. Remove the screw [3] and the Toner Hopper Unit [4].

9. Close the right door and remove the pressure spring [5].

NOTE

• Make sure that the right door is kept closed.

[6]

[7]

Maintenance

- 10. Remove four screws [6] and the imaging unit protective metal bracket [7].
 - Unplug two connectors [8] and remove four screws [9] and the Toner Hopper Assy [10].

12. Remove the two screws [11] and disconnect the connector [12] from the rear side surface.

13. Remove two screws [13] and the Toner Replenishing Drive Unit [14].



[6]



4040F2C673DA

7.3.28 Duplex Unit

1. Remove the Lower Right Rear Cover.

er 49

[3] [2] 4040F2C569DA



7.3.29 Switch Back Unit

- 1. Open the Right Door.
- 2. Remove the Rear Right Cover.
- e 50





2. Disconnect the connector [1] and remove the screw [2] and ground wire [3].

3. Remove four screws [4] and the Duplex Unit [5].

3. Remove the screw [1] and the Front Right Cover [2].

 Unplug two connectors [3] of the Switch Back Unit.







7.3.30 Scanner Motor

- 1. Remove the Upper Rear Cover.
- e 50
- 2. Remove the IR Right Cover.
- æ 51



- 5. Loosen the screw [4] in front.
- 6. Remove the screw [5] in front.
- 7. Loosen the screw [6] in the back.
- 8. Remove the screw [7] in the back.
- 9. Remove the Switch Back Unit [8].

10. Remove two screws [9] and the lower Switch Back Unit [10].

Maintenance

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the

3. Remove ten wiring saddles [1] and disconnect the connector [2].



7.3.31 Exposure Unit

- 1. Remove the IR Upper Left Cover.
- æ **4**9
- 2. Remove the Front Holding Bracket.
- æ 49
- 3. Remove the Original Glass.

æ 49





4. Remove the spring [3], two screws[4] and the scanner motor [5].

4. Slide the Exposure Unit [1] to the removal position.

- 5. Remove two screws [2].
- 6. Remove the screw [3] and the flat cable [4].
- 7. Remove the flat cable [5] and the Exposure Unit [6].
- 8. To reinstall, reverse the order of removal.

NOTE

- If the Exposure Unit has been removed, be sure to make the Scanner positioning adjustment.
- e 212

7.3.32 Exposure Lamp





- 1. Remove the IR Upper Left Cover.
- æ 49
- Remove the Front Holding Bracket.
 49
- Remove the Original Glass.
- æ 49
- 4. Move the Exposure Unit [1] to the removal position.
- Disconnect the connector [2] and remove the Exposure Lamp harness [3].

• Reinstall the Exposure Lamp harness as follows.





- 6. Remove the screw [4].
- 7. Slide the Exposure Lamp [5] to the front and pull it off the holder [6].

7.3.33 Scanner Drive Cables

A. Removal Procedure

- 1. Remove the Upper Rear Cover.
- 50
 2 Re
- 2. Remove the IR Upper Left Cover.
- æ 49
- 3. Remove the Front Holding Bracket.
- æ **4**9
- 4. Remove the Original Glass.
- æ 49
- 5. Remove the Exposure Unit.
- *s* 78
- 6. Remove the Scanner Motor.
- æ 77









7. Remove six screws [1] and the Original Cover hinge support [2].

8. Remove the screw [3] and the Scanner Drive Gear [4] from the shaft.

9. Remove two screws [5] and the front and rear pulleys.

- 10. Remove the bearing [6] and shaft [7].
- *11.* Remove the Scanner Drive Cables from each hook.

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Maintenance

B. Reinstallation Procedure

<General View>









<Rear>

 Position the round bead [5] of the Scanner Drive Cable in the slit [6] in the pulley.

NOTE

- Make sure that the bead snugly rests in the slit in the pulley.
- 5. Wind Scanner Drive Cable 3 [7] around the pulley four turns counterclockwise, from the rear toward the front side.

NOTE

- Make sure that no part of the cable rides on the other.
- Wind Scanner Drive Cable 4 [8] four turns clockwise from the rear to the front side. Then, secure the cable with tape.

NOTE

- Make sure that no part of the cable rides on the other.
- 7. Install two pulleys (front and rear) [9] to the shaft.
- 8. Attach two bushings [10] to the shaft.

9. Secure the front and rear pulleys [11] using one screw each [12].



11. Mount the Scanner Motor Assy.77







10. Attach the Drive Gear [13] using one screw.

NOTE

 Allow a clearance of about 0.1 mm between the Drive Gear and bushing.

<Front>

12. Wind Scanner Drive Cable 2 around pulley D [14] and pulley B [15], hook the fixing bead to the fixing spring [16], and then hook the spring to the catch [17] in the frame.

 Wind Scanner Drive Cable 1 around pulley A [18] and pulley C [19] and hook the bead to the side surface [20] of the Scanner Frame.

<Rear>

14. Wind Scanner Drive Cable 4 around pulley E [21] and pulley G [22] and hook the fixing bead to the fixing spring [23], and then hook the spring to the catch [24] in the frame.

7. Other



16. Remove the pulley tape.



18. Readjust the position of the Exposure Unit.212

 Wind Scanner Drive Cable 3 around pulley H [25] and pulley F [26] and hook the bead to the side surface [27] of the Scanner Frame.

17. Mount the cable to the Exposure Unit [28].

- 1. Remove the Upper Rear Cover.
- e 50
- 2. Remove the Rear Cover.
- e 51
- 3. Remove the Rear Right Cover.
- e 50





4. Remove two screws [1] and the Ozone Filter Assy [2].

 Remove four screws [3], disconnect the connector [4], and remove the Main Motor [5].

7.3.35 IU Motor

- 1. Remove the Upper Rear Cover.
- e 50
- 2. Remove the Rear Cover.
- æ 51



3. Remove four screws [1], disconnect the connector [2], and remove the IU Motor [3].

7.3.36 Fusing Unit Cooling Fan Motor

- 1. Remove the Upper Rear Cover.
- e 50
- 2. Remove the Rear Cover.
- æ 51





7.3.37 Toner Suction Fan Motor

- 1. Remove the Upper Rear Cover.
- e 50
- 2. Remove the Rear Cover.
- æ 51



3. Remove three wiring saddles [1] and disconnect the connector (PJ33) [2].

4. Remove two screws [3] and the Fusing Unit Cooling Fan Motor [4].

 Remove two screws [1] and two wiring saddles [2], disconnect the connector [3], and remove the Toner Suction Fan Motor [4].

- 1. Remove the Upper Rear Cover.
- e 50
- 2. Remove the Rear Cover.
- æ 51



 Disconnect the connector [1], widen the two tabs [2], and remove the Temperature/humidity Sensor [3].

7.3.39 ATDC Sensor

- 1. Select Tech. Rep. Mode \rightarrow [Counter] \rightarrow [Special Parts Counter] \rightarrow [Developer] and clear the counter.
- 2. Turn OFF the main power switch.

NOTE

- Clear the counter before removing the IU.
- After clearing the counter, be sure to turn OFF the Main Power Switch.



[2] [2] [2] [2] [3] [4] [4] [4] [4]



- 3. Open the Right Door.
- 4. Remove the Imaging Unit [1].

 Remove four screws (silver) [2] and disassemble the Photo Conductor Unit [3] and the Developing Unit [4].

 Remove three screws [5] and the Developer Scattering Prevention Plate [6].



7. Remove the Toner Supply Port [7].

8. Remove the developer [8].

Removal of the Developer

- Dump the developer on the Sleeve Roller by rotating the gear in the direction of the arrow.
- If you rotate the gear in reverse, mylar for cleaning the ATDC Sensor
- Dump developer until almost no developer sticks to the Sleeve Roller.
- 9. Remove two screws [9] and open the Cover [10].

- 10. Remove two screws [11], disconnect the connector [12], and remove the ATDC Sensor [13].
- 11. Add developer.
- e 34

7.3.40 Thermistor

- 1. Remove the Fusing Unit.
- er 37









2. Snap off the C-clip [1] and remove the Fusing Entrance Guide Plate [2].

3. Remove two shoulder screws [3], the screw [4], and the Exit Rolls 2 Assy [5].

4. Remove the wiring saddle [6] and the harness.

 Disconnect the connector [7] of the Exit Sensor and remove the Exit Rolls 2 Assy [8].



6. Press the Thermistor Holding/Check Jig [9] up against the bracket and fix it in position.





$\underline{\land}$ CAUTION

 Press the Thermistor Holding/ Check Jig squarely so as to eliminate no gap between the bracket that supports the thermistor and the jig.

7. Remove two screws [10], the Fusing Roller Thermistor [11], and Fusing Roller Sub Thermistor [12].

Precautions for mounting the thermistors

- When reinstalling the thermistors, use the Thermistor Holding/Check Jig.
- After installation, use the jig to make sure that the bracket is not bent.

- 1. Remove the Fusing Unit.
- er 37





7.3.42 Paper Exit Roll 2

- 1. Remove the Fusing Unit.
- er 37





2. Remove four screws [1] and four Exit Rolls 1 Assy [2].

3. Remove the Exit Roll 1 [3].

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2. Snap off the C-clip [1] and remove the Fusing Entrance Guide Plate [2].

3. Remove two shoulder screws [3], the screw [4], and the Exit Rolls 2 Assy [5].





7.3.43 Separation Claw

1. Remove the Fusing Unit.

e 37

[11]



4. Remove the wiring saddle [6] and the harness.

 Disconnect the connector [7] of the Exit Sensor and remove the Exit Rolls 2 Assy [8].

6. Remove the screw [9] and the Separation Claw Assy [10].

7. Remove the Exit Roll 2 [11].

2. Snap off the C-clip [1] and remove the Fusing Entrance Guide Plate [2].











3. Remove two shoulder screws [3], the screw [4], and the Exit Rolls 2 Assy [5].

4. Remove the wiring saddle [6] and the harness.

 Disconnect the connector [7] of the Exit Sensor and remove the Exit Rolls 2 Assy [8].

6. Remove the screw [9] and the Separation Claw Assy [10].

7. Remove four springs [11], the shaft [12], and four Separation Claws [13].

7.4 **Cleaning procedure**

NOTE

The alcohol described in the cleaning procedure represents the isopropyl alcohol.

7.4.1 Manual Bypass Feed Roller

1. Remove the Manual Bypass Unit.

æ 71





- 7.4.2 Manual Bypass Separation Roller
- 1. Remove the Manual Bypass Unit.

æ 71





Remove two screws [1] and the Man-2. ual Bypass Separation Fixing Bracket Assy [2].

Using a soft cloth dampened with 3. alcohol, wipe the Manual Bypass Feed Roller [3] clean of dirt.

2. Remove two screws [1] and the Manual Bypass Separation Fixing Bracket Assy [2].

3. Using a soft cloth dampened with alcohol, wipe the Manual Bypass Separation Roller [3] clean of dirt.









 Remove the screw [1] and, holding the stopper [2], remove the Tray 1 [3].

2. Remove two screws [4] and the Connector Cover [5].

- 3. Unplug the connector [6].
- 4. Remove two screws [7] and the Tray 1 Feed Roller Assy [8].

 Using a soft cloth dampened with alcohol, wipe the Tray 1 Feed Roller
 [9] clean of dirt.









 Remove the screw [1] and, holding the stopper [2], remove the Tray 1 [3].

2. Remove two screws [4] and the Connector Cover [5].

- 3. Remove the connector [6].
- 4. Remove two screws [7] and the Tray 1 Feed Roller Assy [8].

 Using a soft cloth dampened with alcohol, wipe the Tray 1 Pick-up Roller [9] clean of dirt.

7.4.5 Tray 1 Separation Roller









 Remove the screw [1] and, holding the stopper [2], remove the Tray 1 [3].

2. Remove two screws [4] and the Connector Cover [5].

- 3. Remove the connector [6].
- 4. Remove two screws [7] and the Tray 1 Feed Roller Assy [8].

 Using a soft cloth dampened with alcohol, wipe the Tray 1 Separation Roller [9] clean of dirt.

7.4.6 Tray 2 Feed Roller

- 1. Slide out the Tray 2.
- 2. Remove the Manual Bypass Unit.

s 71

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7.4.7 Tray 2 Pick-up Roller

- 1. Slide out the Tray 2.
- 2. Remove the Manual Bypass Unit.
- æ 71



3. Remove the Lower Right Cover [1].

- 4. Remove two connectors [2].
- 5. Remove three screws [3] and the Tray 2 Feed Roller Assy [4].
- Using a soft cloth dampened with alcohol, wipe the Tray 2 Feed Roller
 [5] clean of dirt.

3. Remove the Lower Right Cover [1].





7.4.8 Tray 2 Separation Roller

- 1. Slide out the Tray 2.
- 2. Remove the Manual Bypass Unit.
- æ 71







- 4. Remove two connectors [2].
- 5. Remove three screws [3] and the Tray 2 Feed Roller Assy [4].

 Using a soft cloth dampened with alcohol, wipe the Tray 2 Pick-up Roller [5] clean of dirt. bizhub 200/250/350

3. Remove the Lower Right Cover [1].

- 4. Remove two connectors [2].
- 5. Remove three screws [3] and the Tray 2 Feed Roller Assy [4].

6. Using a soft cloth dampened with alcohol, wipe the Tray 2 Separation Roller [5] clean of dirt.

7.4.9 Registration Roller



7.4.10 Paper Dust Remover







7.4.11 Transport Roller



- 1. Remove the Paper Dust Remover
- @ 31
- Using a soft cloth dampened with alcohol, wipe the Registration Roller
 [5] clean of dirt.

1. Open the Right Door [1].

2. Remove the Paper Dust Remover [2].

3. Using a brush, whisk dust and dirt off the Paper Dust Remover [3].

- 1. Open the Lower Right Door [1].
- 2. Using a brush, whisk dust and dirt off the Transport Roller [2].

7.4.12 Scanner Rails



7.4.13 Bushings

- 1. Remove the IR Upper Left Cover.
- æ 49
- 2. Remove the Front Holding Bracket.
- æ 49
- 3. Remove the Original Glass.
- e 49
- 4. Remove the Exposure Unit.
- e 78



7.4.14 Mirrors

- 1. Remove the IR Upper Left Cover.
- æ 49
- 2. Remove the Front Holding Bracket.
- æ 49
- 3. Remove the Original Glass.
- æ 49



1. Remove the IR Upper Left Cover.

æ 49

- Remove the Front Holding Bracket.
 49
- Remove the Original Glass.
- æ 49
- 4. Using a soft cloth dampened with alcohol, wipe the Scanner Rails [1] clean of dirt.

 Using a soft cloth dampened with alcohol, wipe the Bushings [1] clean of dirt.

NOTE

• When installing the Exposure Unit, be sure to perform scanner position adjustment.

e 212 🖉

 Using a soft cloth dampened with alcohol, wipe the Mirrors [1] clean of dirt.

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- 1. Remove the IR Upper Left Cover.
- 49 Ŧ 2. Remove the Front Holding Bracket.
- 49 æ
- 3. Remove the Original Glass.
- æ 49





Original Scanning Glass 7.4.16



1. Using a soft cloth dampened with alcohol, wipe the Original Scanning Glass [1] clean of dirt.

7.4.17 **Original Glass**



1. Using a soft cloth dampened with alcohol, wipe the Original Glass [1] clean of dirt.

4. Remove six screws [1] and the CCD Unit Cover [2].

5. Using a soft cloth dampened with alcohol, wipe the Lens [3] clean of dirt.

7.4.18 Charge Neutralizing Plate



7.4.19 Ds Collar

1. Turn OFF the main power switch.

NOTE

- Clear the PC Life counter before removing the IU.
- After clearing the PC counter, be sure to turn OFF the Main Power Switch.







2. Open the Right Door.

1. Open the Right Door.

2. Wipe the Charge Neutralizing Plate [1] clean of dirt with a cloth.

3. Remove the Imaging Unit [1].

 Remove four screws (silver) [2] and disassemble the Photo Conductor Unit [3] and the Developing Unit [4].

5. Remove three screws [5] and the Developer Scattering Prevention Plate [6].



7. Turn ON the main power switch.

6. Using a soft cloth dampened with alcohol, wipe the Ds Collar [9] clean of dirt.

NOTE

• Make sure the alcohol does not touch the Developer Roller.

Maintenance

7.5 Mount Kit MK-709

- 1. Remove the Upper Rear Cover.
- e 50
- 2. Remove the Rear Cover.
- æ 51











3. Remove five screws [1] and Mechanical Control Board Cover [2].

4. Remove the ferrite core (black) [3].

- 5. Remove the Connector [4].
- 6. Remove two screws [5], shield clamp, and harness.

NOTE

- When the connector is to be connected, plug the side of the harness, around which red tape is wound, in the connector (PJ38) of the Mechanical Control Board.
- 7. Remove the Connector [6].
- 8. Remove two screws [7] and the Mount Kit Assy [8].

9. Remove four screws [9], two shoulder screws [10], and the Mount Kit Board [11].
7. Other

7.6 Option counter

7.6.1 Installation method for the Key Counter

- 1. Remove the Upper Rear Cover.
- e 50
- 2. Remove the IR Right Cover.
- æ 51







- Install the spacer [2] using two screws [1].
- 4. Fold the sheet [3] in half.
- Insert the edge of the sheet having no holes between the harness [4] and the Key Counter Mounting Bracket [5].

- 6. Peel off the tape [6] from the sheet.
- Align threaded holes in the sheet with those in the Key Counter Mounting Bracket. Then, affix the folded halves together so as to sandwich the Mounting Bracket.

- 8. Remove the knockout [7] from the IR Right Cover.
- 9. Pass the Key Counter Harness [8] through the IR Right Cover.
- 10. Reinstall the IR Right Cover.





11. Using three screws [9], secure the Counter Mounting Bracket [10].

- 12. Connect the Key Counter Socket connector.
- 13. Using two screws [11], secure the counter socket [12].

14. Using two screws [13], secure the Key Counter Cover [14].

7. Other

7.7 Original Size Detecting Sensors

7.7.1 Original Size Detecting Sensor Layout

A. For U.S.

7. Other



B. For Europe and Others



7. Other

7.7.2 Mounting of the Original Size Detecting Sensors (Option)

- 1. Remove the IR Upper Left Cover.
- æ 49
- 2. Remove the Front Holding Bracket.
- æ 49
- 3. Remove the Original Glass.
- æ 49
- 4. Mount the Original Size Detecting Sensor (option).
- 5. Reinstall all parts which have been removed.
- Select the functions as follows: Tech. Rep. Mode → [System Input] → [Original Size Detecting Option]. Then, change the setting for Original Size Detecting Option from [No] to [Yes].
- 7. Select the Tech. Rep. Mode \rightarrow [Function] \rightarrow [F7-1].

NOTE

- Select [F7-2] if the Fax Kit is mounted.
- 8. Stack five sheets of blank A3 paper on the Original Glass.
- 9. Press the Start key to perform automatic adjustment by the Original Size Detecting Sensor
- 10. Turn OFF the Main Power Switch, wait for 10 sec., then turn the switch ON.

NOTE

• The Start key remains lit up orange while this function is being run and lights up green as soon as the sequence is completed.

7.8 EEPROM

7.8.1 Remounting of the EEPROM

NOTE

- When the Mechanical Control Board is replaced with a new one, be sure to demount the EEPROM (IC3A) from the old Mechanical Control Board and mount it on the new Mechanical Control Board.
- 1. Remove the Upper Rear Cover.
- e 50
- 2. Remove the Rear Cover.
- æ 51







3. Remove five screws [1] and Mechanical Control Board Cover [2].

- 4. Unplug the all connectors.
- Remove five screws [3] and Mechanical Control Board [4].

- 6. Demount the EEPROM (IC3A) from the new Mechanical Control Board.
- Mount the EEPROM (IC3A) from the old Mechanical Control Board to the new Mechanical Control Board.

NOTE

• Note the alignment notch on the EEPROM (IC3A) when mounting the IC.

Adjustment/Setting

8. How to use the adjustment section

- "Adjustment/Setting" contains detailed information on the adjustment items and procedures for this machine.
- Throughout this "Adjustment/Setting," the default settings are indicated by " ".

Advance Checks

Before attempting to solve the customer problem, the following advance checks must be made. Check to see if:

- The power supply voltage meets the specifications.
- The power supply is properly grounded.
- The machine shares the power supply with any other machine that draws large current intermittently (e.g., elevator and air conditioner that generate electric noise).
- The installation site is environmentally appropriate: high temperature, high humidity, direct sunlight, ventilation, etc.; levelness of the installation site.
- The original has a problem that may cause a defective image.
- The density is properly selected.
- The Original Glass, slit glass, or related part is dirty.
- Correct paper is being used for printing.
- The units, parts, and supplies used for printing (developer, PC Drum, etc.) are properly replenished and replaced when they reach the end of their useful service life.
- Toner is not running out.

- To unplug the power cord of the machine before starting the service job procedures.
- If it is unavoidably necessary to service the machine with its power turned ON, use utmost care not to be caught in the Scanner Cables or gears of the Exposure Unit.
- Special care should be used when handling the Fusing Unit which can be extremely hot.
- The Developing Unit has a strong magnetic field. Keep watches and measuring instruments away from it.
- Take care not to damage the PC Drum with a tool or similar device.
- Do not touch IC pins with bare hands.

9. Utility/Counter Mode

9.1 Utility/Counter Mode function tree

• The function tree is shown to comply with the format displayed on the screen.





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Adjustment / Setting

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4040F3E547DA

NOTE

- Keys displayed on screens are different depending on the setting.
- *1: Become available on the screen if a corresponding option is mounted or depending on the setting made.
- *2: Key names are different if the Fax Kit FK-503 is mounted.
- *3: For more details, see the FK-503 manual.
- If HD-504 is not mounted, [User's Choice] is directly shown.

9.2 Utility/Counter Mode function setting procedure

9.2.1 Procedure

- 1. Press the Utility/Counter key.
- 2. The Utility/Counter mode screen will appear.

Utility/Counter Enter	
Setting User Total Management Counter 333333 Admin.	
Brinter Jotal Setting	
Check1	
	4040F3E540DA

9.2.2 Exiting

• Touch the [Enter] key.

9.2.3 Changing the setting value in Utility Mode functions

- Use the +/- key to enter or change the setting value.
- Use the 10-Key Pad to enter the setting value. (To change the setting value, first press the Clear key before making an entry.)

c

9.3 Settings in the User Setting

9.3.1 User's Choice 1/6

A. Mixed Original Detection

Functions	• To set whether or not the Mixed Original Detection function is selected when the screen shifts to the initial one.		
Use	To set Mixed Original Detection as the default.		
Setting/	The default setting is "OFF".		
Procedure	ON "OFF"		

B. Language Selection

Functions	 To select the language of the Touch Panel messages. 			
Use	To change the language of the control panel display to the corresponding language.			
Setting/ Procedure	 Select the language, a For U.S.> Japanese For Europe> Japanese German 	nd then touch [Ent "English" "English" Italian	er] to set the langua French French	age. Spanish Spanish

C. Measurement Unit Setting

Functions	 To select the unit displayed on the LCD display. Available only in machines for U.S. 	
Use	 To change the unit displayed on the control panel. 	
Setting/	The default setting is "Inch (Fraction)".	
Procedure	"Inch (Num. Value)" Inch (Fraction)	

D. Machine Authentication PW Change

Functions	The password entered for machine authentication with user authentication can be
Use	changed.Available only when the machine authentication setting is made.
Setting/ Procedure	[Current Password]: Type in the currently specified machine authentication password. [New Password]: Type in the new machine authentication password. [Confirm New Password]: Type in the new machine authentication password again for confirmation.

9.3.2 User's Choice 2/6

A. Default Setting Simplex/Duplex

Functions	To set the default copy mode selected when the screen shifts to the initial one.			
Use	To change the default copy mode selected when the screen shifts to the initial one.			
	 The default setting is "1 → 1" if "Simplex/Duplex" is "Simplex & Duplex" that is accessed by the following: Tech. Rep. Mode → [Tech. Rep. Choice] → [System Set] → Simplex/ Duplex. 			
Setting/	$1 \rightarrow 2$ $2 \rightarrow 2$ $1 \rightarrow 1$			
Procedure	 The default setting is "1 → 2" if "Simplex/Duplex" is "Duplex Only" that is accessed by the following: Tech. Rep. Mode → [Tech. Rep. Choice] → [System Set] → Simplex/ Duplex. 			
	1→2 2→2			

B. Auto Paper/Auto Zoom

Functions	To set the default Auto mode selected when the screen shifts to the initial one.		
Use	To change the default Auto mode selected when the screen shifts to the initial one.		
Setting/	The default setting is "Auto Paper Select".		
Procedure	"Auto Paper Select" Auto Zoom Manual		

C. Priority Tray

Functions	 To select the priority paper source that is selected when the copier is set to [Auto Size] or [Manual]. 		
Use	To set a priority paper source.		
Setting/	The default setting is "Tray 1".		
Procedure	"Tray 1" Tray 2 Tray 3 Tray 4		

D. Special Paper Setting

Functions	 To specify the type of 	f paper used in each	paper Tray.	
Use	 To set the type of par 	per used in each pap	oer Tray.	
Setting/	 The default setting is 	"Normal".		
Procedure	"Normal"	1-Sided only	Recycled	Special Paper

E. Zoom Ratio for Combine Booklets

Functions	• To select whether or not to call up an optimum zoom ratio automatically when the 2in1, 4in1, or Booklet function is selected.
Use	 To set so as to call up an optimum zoom ratio automatically when the 2in1, 4in1, or Booklet function is selected.
Setting/ Procedure	 The default setting is "Recall". "Recall" Do Not Recall 4in1: ×0.500 2in1/Booklet: ×0.647 <for u.s.=""> 2in1/Booklet: ×0.707 <for europe=""></for></for>

9.3.3 User's Choice 3/6

A. Low Power Mode

Functions	 To set the time until Low Power starts operating after the last key operation has been completed. Low Power: To turn LED and LCD OFF, and lower the power consumption.
Use	To change the time until Low Power starts.
Setting/ Procedure	 Use the 10-Key Pad for setting. The default setting is "15 min." "15 min." (10 to 240)

B. Sleep Mode

Functions	 To set the time until Sleep Mode starts operating after the last key operation has been completed. Turn all lines OFF except 3.3 V line for Control. "OFF" will only be displayed when "Disable Sleep Mode" in Admin. Management is set.
Use	 To change the time until the Sleep Mode starts.
Setting/ Procedure	 Use the 10-Key Pad for setting. The default setting is "15 min." "15 min" (1 to 240) OFF

C. LCD Back-Light OFF

Functions	 To set the time until LCD Back-Light OFF starts operating after the last key operation has been completed.
Use	 To change the time until LCD Back-Light OFF starts operating after the last key opera- tion has been completed.
Setting/ Procedure	 Use the 10-Key Pad for setting. The default setting is "1 min." "1 min" (1 to 240)

D. Auto Reset

Functions	 To set the time until Auto Reset starts operating after the last key operation has been completed. Auto Reset: Resets the panel to the default settings. 		
Use	 To change the time until Auto Reset starts operating after the last key operation has been completed. 		
Setting/ Procedure	The default setting is "1 min." 30 seconds "1 min" 2 min 3 min 5 min OFF		

E. Auto Reset when Account is changed

Functions	 To set so that the screen changes to the initial one when the Plug-in Counter is removed, a Data Controller card is removed, or the administrator access code is entered to access the Admin. Management mode. 		
Use	 To select not to allow the screen to change to the initial one even when the users are changed as they use a machine for account management. 		
Setting/ Procedure	The default setting is "ON" "ON" OFF		

9.3.4 User's Choice 4/6

A. 4in1 Copy Order

Functions	 To select the layout of copied images when a 4in1 Copy setting is selected. 		
Use	 To change the layout of copied images when a 4in1 Copy setting is selected. 		
Setting/ Procedure	The default setting is the following layout of copied images. 1 2 3 4 Default		

B. Default Quality/Density Modes

Functions	• To set the default image density and image quality selected when the screen shifts to the initial one.			
Use	 To change the default image density and image quality selected when the screen shifts to the initial one. 			
Setting/ Procedure	<pre><density> • The default setting is "A</density></pre>	uto". Manual ext" Photo	Text & Photo	

C. Default Copy Density Levels

Functions	To set the default image density level when the Auto or Manual Exposure is selected.		
Use	 To change the default image density level when the Auto or Manual Exposure is selected. 		
Setting/ Procedure	When "Auto" is selected: • The default setting is "Std." Lighter "Std." Darker When "Manual" is selected: • The default setting is "EXP5" EXP1 (Light) through EXP9 (Dark)		

D. Print Density

Functions	• To	To specify the default print density.						
Use	• To	change th	ne default	print de	nsity.			
Setting/	• TI	ne default :	setting is	"0".				
Procedure		-2	-1	0	1	2		

E. Default Finishing Mode

Functions	 To set the default finishing mode selected when the screen shifts to the initial one. The contents of the display vary depending on the types of finishing options mounted on the machine. 			
Use	To change the default finishing mode selected when the screen shifts to the initial one.			
Setting/ Procedure	The default setting is "Non-Sort". "Non-Sort" Sort Group Corner Staple 2 Staples			

9.3.5 User's Choice 5/6

A. Sort/Non-Sort Auto Change

Functions	 To select whether to enable or disable the function that automatically switches between [Sort] and [Non- Sort] according to the number of originals and the number of copy sets to be made. 			
Use	 To set so as to enable the function that automatically switches between [Sort] and [Non-Sort] according to the number of originals and the number of copy sets to be made. 			
Setting/ Procedure	The default setting is "ON". "ON" OFF			

B. Output Tray Settings

(1) Copier/Printer

Functions	 To specify the output tray for copies and computer printouts when output options are mounted on the copier. The screen that appears differs depending on the options that are mounted on the copier. 		
Use	To change the output tray	/ for copies and co	omputer printouts.
Setting/ Procedure	<printer> The default setting is "1". "1" <copies> The default setting is "2"; ("1") * (): when the Mailbin Kit is</copies></printer>	2 or "1" if the Mailbi "2" s mounted	(3) n Kin is mounted. 3

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C. Auto Paper Select for Small Original

Functions	 To set whether or not to specify the paper tray when an original, whose size falls out- side the detectable range, is loaded or no originals are loaded at all with the [Auto Paper Select] setting selected. 		
Use	[Copy]: Enables copying by using the priority paper source.[Prohibit Copy]: Displays a screen prompting the user to select the paper source.		
	The default setting is "Copy".		
Setting/ Procedure	"Copy" Prohibit Copy		
	 If "Copy" is selected, the copy can be made after a paper source is selected. 		

D. Dehumidify Scanner

Functions	 To set the time at which the Scanner is dehumidified in order to prevent dew condensations from being formed on the Scanner. Becomes available when the corresponding Tech. Rep. Mode function is set. 		
Use	 To change the time at which the Scanner is dehumidified. 		
Setting/ Procedure	The 10-Key Pad is used for setting the time. Hour: 00 to 24 Minute: 00 to 59		

E. Crease/Center Staple

Functions	 To specify the folding position when the [Crease] setting is selected. To specify the binding position when the [Corner Staple] setting is selected. Available only when the options mounted.
Use	 To adjust the folding position of the [Crease] function and the binding position of the [Center Staple] function.
Setting/ Procedure	 Select [Crease/Center Staple]. Select the paper size. Adjust the position of crease and center staple. <crease> The default setting is "0"</crease>

9.3.6 User's Choice 6/6

A. Default Screen

(1) Default LCD Screen

Functions	 To set the default screen selected when the screen shifts to the initial one.
Use	 To change the default screen selected when the screen shifts to the initial one.
Setting/	The default setting is "Copy"
Procedure	"Copy" E-mail

(2) Default E-Mail Screen

Functions	To set the default screen selected when the Scanner is selected.
Use	 To change the default screen selected when the Scanner is selected.
Setting/	The default setting is "One-Touch"
Procedure	"One-Touch" Search Address Input Index

B. Default Device

Functions	To set the mainly used function.
Use	 To change the mainly used function.
Setting/ Procedure	The default setting is "Copy"
	"Copy" Printer

C. Image Quality (ADF)

Functions	 To adjust the copy image density level when the ADF is being used. Mode 1: When a standard original (text, etc.) is used Mode 2: To improve the reproduction of a faint original.
Use	 To change the copy image density level when the ADF is being used.
Setting/ Procedure	The default setting is "Mode 1" Mode1 (for black lines): " Mode2 (standard):

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9.3.7 Store Overlay

NOTE

• Available only when the HD-504 is mounted.

A. Set

Functions	 To store an image to be called up in overlay.
Use	To store image in the Hard Disk.
Setting/ Procedure	 Place the original to be stored for overlay. Press the Utility/Counter key. Touch [User Setting] and then [Store Overlay]. Touch [Set] and select the number key, in which the image is to be stored. Select the size of the range to be read. Touch [Auto Detect] to let the machine automatically detect the reading range according to the image of the original. Touch [Custom Size]. Then, a screen that prompts the user to enter an irregular size will appear. Touch [X] or [Y], enter the value from the 10-Key Pad, and touch [Enter]. Select the orientation of the original. Portrait: " []

B. Delete

Functions	 To delete an image that has previously been stored.
Use	 To delete an image that has previously been stored in the Hard Disk.
Setting/ Procedure	 Press the Utility/Counter key. Touch [User Setting] and then [Store Overlay]. Touch [Delete] and select the number key, in which the image to be deleted is stored.

C. Check

Functions	 To check the image that has previously been stored by having it printed.
Use	 To check the image that has previously been stored in the Hard Disk.
Setting/ Procedure	 Press the Utility/Counter key. Touch [User Setting] and then [Store Overlay]. Touch [Set] and select the number key, in which the image to be checked is stored. Select paper and press the Start key.

9.4 Settings in the User Management

9.4.1 Confirmation Beep

Functions	 To set whether or not to produce a sound when a key in the Keypad is pressed.
Use	 To change whether or not to produce a sound when a key in the Keypad is pressed.
Setting/	The default setting is "3".
Procedure	0 to 5

9.4.2 Alarm Volume

Functions	 To specify the volume of the alarm that sounds when an error occurs or an incorrect operation is specified.
Use	 To change the volume of the alarm that sounds when an error occurs or an incorrect operation is specified.
Setting/ Procedure	The default setting is "3".
	0 to 5

9.4.3 Job Complete Beep

Functions	To set the volume of the beep that sounds when a job is completed.
Use	 To change the volume of the beep that sounds when a job is completed.
Setting/	The default setting is "3".
Procedure	0 to 5

9.4.4 Panel Cleaning

Functions	To disable control panel key operations.
Use	 To disable control panel keys before cleaning the display on the control panel.
Setting/ Procedure	To cancel this function, press the Panel Reset key to display the Basics screen.

9.4.5 Dehumidify

Functions	•	To dehumidify the Scanner when dew condensations are formed on the Scanner because of sudden changes in temperature or high humidity.
Use	•	To prevent dew condensations from being formed on the Photo Conductor during changes in ambient conditions.
Setting/ Procedure	•	When [Dehumidify] is touched, the Photo Conductor or Exposure Lamp is operated for a predetermined period of time and then stops in the mode set by the corresponding Tech. Rep. Choice function.

Adjustment / Setting

9.4.6 Toner Supply

Functions	 To adjust the set toner-to-carrier level by providing an auxiliary supply of toner when a low image density occurs due to a lowered toner-to-carrier ratio after large numbers of copies have been made of originals having a high image density.
Use	 To replenish the supply of toner in an auxiliary manner.
Setting/ Procedure	 Touch [Toner Supply] for the copier to detect the current toner density and, if the den- sity is lower than the standard value, a toner-replenishing sequence, then a developer agitation sequence are performed. If the toner density is detected to be higher than the standard value, only a developer agitation sequence is performed.

9.5 Settings in the Admin. Management

• The Admin. Management will be available by entering the administrator password (8 digits) set by the Admin. Set. (The administrator password is initially set to "0000000")

9.5.1 Initial Setting

A. Date & Time Setting

(1) Date & Time Setting

Functions	To set the date and time of day.
Use	 To set or change the date and time of day.
Setting/ Procedure	 Use the Keypad to type in the date (Month, Day, and Year) and time of the day. Touching [Enter] will start the clock.

(2) Time Zone

Functions	To set the time difference from the standard time appended to the mail header when sending e-mail.
Use	 To change the time difference from the standard time.
Setting/ Procedure	The default setting is "-05:00".
	-12:00 to +12:00

(3) Day Light Saving Time

Functions	To adjust daylight saving time automatically.
Use	To set daylight saving time.
Setting/ Procedure	The default setting is "Auto".
	"Auto" OFF

9.5.2 Admin. Set

A. Administrator Code Input

Functions	To change the administrator access code.
Use	 To change the administrator access code.
Setting/ Procedure	 Setting range: 0000000 to 99999999 [Current Code]: Enter the current administrator access code. [New Code]: Enter the new administrator access code. [Retype New Code]: Enter the new administrator access code again for confirmation.

B. Max. Copy Sets

Functions	To set whether or not to limit the number of copies to be made at one time.
Use	 To limit the number of copies to be made at one time.
Setting/ Procedure	The default setting is "OFF".
	1 to 99 OFF

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C. Disable Sleep Mode

Functions	 To display the setting [OFF] in the Sleep Mode Setting screen, available from the User's Choice screen. 	
Use	 To enable the setting of [OFF] in the Sleep Mode Setting screen available from the User's Choice screen. 	
Setting/ Procedure	The default setting is "NO".	
	Yes "No"	

9.5.3 Account/User Auth.

A. General Settings

(1) User Authentication ON/OFF

Functions	To set whether or not to make user authentication.	
Use	To select the scheme of user authentication, whether it is made by an external MFP.	l server or
Setting/	The default setting is "OFF".	
Procedure	ON (External Server) ON (MFP) "OFF"	

(2) Account Track ON/OFF

Functions	To set whether or not to enable the account track function.	
Use	To enable the account track function.	
Setting/ Procedure	The default setting is "OFF".	
	ON "OFF"	

(3) Allow Print without Authentication

Functions	 To set whether or not to authorize printing of data, which is specified for computer printouts and for which no accounts are specified, when the account track function is enabled. * Available only when [Account Track ON/OFF] is set to [ON]. 	
Use	 To authorize printing of data, which is specified for computer printouts and for which no accounts are specified, when the account track function is enabled. 	
Setting/ Procedure	The default setting is "OFF".	
	ON "OFF"	

B. Account Data

Functions	 To control the Total Counter by setting a password and the upper limit for the output pages for each account. * Available only when [Account Track ON/OFF] is set to [ON].
Use	To set, control, or delete account data.
Setting/ Procedure	<set> 1. Select an unused account number (000 to 999). 2. Enter the Account Name and Password. 3. Set the Max. Print Allowance (0 to 999999). 4. Touch [Enter]. <control> 1. Select the account number to be controlled. 2. Select [Counter].: Each of different counters of the selected account will be displayed. 3. Select [General Settings].: Change the settings made for the selected account. 4. Select [Clear Counter].: The counter of the selected account is cleared. 5. Touch [Enter]. <delete> 1. Select the account number to be deleted. 2. Select [Delete Account]. 3. Select [Pers] and touch [Enter]. </delete></control></set>

C. User Auth. Setting

Functions	 To control the Total Counter by setting a password for each user. Available only when [User Authentication ON/OFF] is set to [ON (External Server)] or [ON (MFP)].
Use	To set authentication by external server or by MFP.
	<set authentication="" external="" of="" server=""> Touch [General Settings] and select the authentication scheme. The default setting is "Active Directory". </set>
	"Active Directory" NTLM NDS
	2. Touch [Domain Name] and enter the domain name (up to 64 en-size characters).
Setting/ Procedure	NOTE If [NDS] is selected, enter [Tree Name] and [Context Name].
	<set authentication="" mfp="" of=""> 1. Touch [User Registration] and select an unused user number key. 2. Touch [User Information] and enter the User Name and User Password. 3. Touch [Enter].</set>
	<control authentication="" mfp="" of=""> Select the user number key to be controlled. Select [Counter].: The counter of the selected account is cleared. Select [General Settings].: Change the settings made for the selected user. Select [Clear Counter].: Each of different counters of the selected account will be displayed. Touch [Enter]. </control>
	<delete authentication="" mfp="" of=""> 1. Select the user number key to be deleted. 2. Select [Delete User]. 3. Select [Yes] and touch [Enter].</delete>

9.5.4 Call Remote Center

Functions	• To call the CS Remote Care Center from the Administrator, When the CS Remote Care
Use	setup is complete.
Setting/ Procedure	 Touch and highlight [Call Remote Center]. The highlight display is cancels as soon as the function terminates normally.

9.5.5 Network Setting

A. Basic Settings

(1) DHCP

Functions	To set DHCP for the network.
Use	To use DHCP.
Setting/ Procedure	The default setting is "IP Input".
	Auto-Obtain IP Input

(2) IP Address Setting

Functions	To set the IP address of the device used in the network.
Use	 To enter the IP address of the machine. Use this function when [IP Input] is selected for [DHCP].
Setting/ Procedure	 IP address Version 4 format [0 to 255] . [0 to 255] . [0 to 255] . [0 to 255]

(3) Subnet Mask

Functions	 To set the subnet mask of the device used in the network.
Use	 To enter the subnet mask of the machine. Use this function when [IP Input] is selected for [DHCP].
Setting/ Procedure	 IP address Version 4 format [0 to 255]. [0 to 255]. [0 to 255]. [0 to 255]

(4) Gateway

Functions	 To set the gateway address of the device used in the network.
Use	 To enter the gateway address of the machine. Use this function when [IP Input] is selected for [DHCP].
Setting/ Procedure	 IP address Version 4 format [0 to 255] . [0 to 255] . [0 to 255] . [0 to 255]

(5) Self-Domain Name

Functions	To set the domain name of the local machine.
Use	 To enter the domain name of the local machine.
Setting/ Procedure	 Touch the [Self-Domain Name]. Enter the domain name of the local machine from the 10-Key Pad or the keyboard on the screen and then touch [Enter].

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(6) Network Board Set

<Network Board Speed>

Functions	 To set the data transfer rate of the Network Board.
Use	 To set a specific network data transfer rate.
	The default setting is "Auto".
	"Auto" 100M 10M
Setting/ Procedure	 NOTE Be sure to set the correct transfer rate so as to ensure that communications are carried out correctly. If the network data transfer rate has been changed, be sure to turn OFF the Main Power Switch of the machine, wait for 10 sec. or more, and then turn the switch ON again.

<Duplex>

Functions	To set the packet transmission/reception mode when the switching hub is connected.
Use	 To change the setting between Full Duplex and Half Duplex. Use this function when Network Board Speed has been set to [100M] or [10M].
Setting/ Procedure	 The default setting is "Half Duplex". "Half Duplex" Full Duplex NOTE If the Duplex setting has been changed, be sure to turn OFF the Main Power Switch of the machine, wait for 10 sec. or more, and then turn the switch ON

B. DNS Settings

Functions	To set the DNS Server.
Use	To enter DNS Server.
	The default setting is "NO".
Setting/ Procedure	 <host name=""></host> 1. Touch the [Host Name]. 2. Enter the host name of the local machine from the 10-Key Pad or the keyboard on the screen and then touch [Enter]. <domain name=""></domain> 1. Touch the [Domain Name]. 2. Enter the domain name of the local machine from the 10-Key Pad or the keyboard on the screen and then touch [Enter]. <dns address="" server=""></dns> IP address Version 4 format [0 to 255]. [0 to 255]. [0 to 255]. * Up to three places can be set.

C. Machine Name

Functions	To set the name of the machine.
Use	 To enter the name of the machine.
Setting/ Procedure	 Touch the [Machine Name]. Enter the machine name of the local machine from the 10-Key Pad or the keyboard on the screen and then touch [Enter].

D. SMTP Settings(1) SMTP Server Address

Functions	 To set the SMTP server address.
Use	To set the SMTP server address required for performing Scan to E-Mail and Internet Fax.
Setting/ Procedure	 IP address Version 4 format [0 to 255]. [0 to 255]. [0 to 255]. [0 to 255]

(2) E-Mail Address

Functions	To set the e-mail address of the machine.
Use	 To enter the e-mail address of the machine.
Setting/ Procedure	 Touch the [E-Mail Address]. Enter the e-Mail address of the local machine from the 10-Key Pad or the keyboard on the screen and then touch [Enter].

(3) SMTP Authentication User Name

Functions	To set the user name for SMTP authentication.		
Use	 To enter the user name when the mail transfer authentication (SMTP authentication) function is used. 		
Setting/ Procedure	 Touch the [SMTP Authentication User Name]. Enter the SMTP Authentication User Name of the local machine from the 10-Key Pad or the keyboard on the screen and then touch [Enter]. 		

(4) SMTP Authentication Password

Functions	To set the password for SMTP authentication.
Use	 To enter the password when the mail transfer authentication (SMTP authentication) function is used.
Setting/ Procedure	 Touch the [SMTP Authentication Password]. Touch [New Password], enter the password, and then touch [Enter]. Touch [Confirm New Password], enter the password once again, and then touch [Enter].

E. POP3 Settings

(1) POP3 Server Address

Functions	To set the POP3 server address.
Use	 To enter the POP3 server address required for receiving Internet Fax.
Setting/ Procedure	 IP address Version 4 format [0 to 255]. [0 to 255]. [0 to 255]. [0 to 255]

(2) POP3 User Name

Functions	To set the POP3 server user name.
Use	 To enter the POP3 server user name required for receiving Internet Fax.
Setting/ Procedure	 Touch the [POP3 User Name]. Enter the POP3 User Name of the local machine from the 10-Key Pad or the keyboard on the screen and then touch [Enter].

(3) POP3 Password

Functions	 To set the POP3 password.
Use	To enter the POP3 password.
Setting/ Procedure	 Touch the [POP3 Password]. Touch [New Password], enter the password, and then touch [Enter]. Touch [Confirm New Password], enter the password once again, and then touch [Enter].

(4) Auto-RX Check

Functions	 To set intervals, at which a check is made by connecting to the POP3 server. 			
Use	• To change the intervals, at which a check is made by connecting to the POP3 server.			
Setting/ Procedure	 The default setting is "Check OFF". Setting range: 1 to 99 M Touch the [Auto-RX Check]. Enter the value from the 10-Key Pad and touch [Enter]. Select [Check OFF] to select not to make the auto check. 			

F. Mail/Scan Settings

(1) E-Mail Mode

<TX Size (Max.)>

Functions	To set the upper limit of the size of the document to be sent.			
Use	 To set the default upper limit of the size of the document for Internet Fax. 			
Setting/ Procedure	The default setting is "11x17".			
	Letter/Legal "11x17"			

<TX Quality (Max.)>

Functions	 To set the upper limit of the image quality to be sent. 			
Use	 To set the upper limit of the image quality to be sent. 			
Setting/ Procedure	The default setting is	"600 dpi".		
	200 dpi	400 dpi	"600 dpi"	

<Coding Method>

Functions	To set the coding method for the data to be sent.			
Use	To set the coding method for the data to be sent.			
Setting/	The default setting	is "MH".		
Procedure	"MH"	MR	MMR	

(2) Scan Mode

<File Type>

Functions	To set the file type of the data to be sent.			
Use	 To set the file type of the data to be sent. 			
Setting/ Procedure	The default setting is "TIFF".			
	"TIFF" PDF			

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<Coding Method>

Functions	 To set the coding method for the selected file type. 		
Use	 To set the coding method for the selected file type. 		
Setting/ Procedure	The default setting is "MH".		
	"MH" MMR		

G. Scanner Settings

(1) Activity Report

Functions	To set whether or not to give an activity report.	
Use	 To set whether or not to return an activity report to the sending end of e-mail. 	
Setting/ Procedure	The default setting is "ON".	
	"ON" OFF	

(2) RX Doc. Header Print

Functions	 To set whether or not to print header in a received document. 	
Use	 To set whether or not to print the e-mail header on the first page of a received document. 	
Setting/ Procedure	The default setting is "OFF".	
	ON "OFF"	

(3) E-Mail Header Text

Functions	To set whether or not to insert text in a transmitted document.
Use	 To set the insertion method of text to be inserted in the transmitted document.
Setting/ Procedure	The default setting is "Fixed Text".
	"Fixed Text" Custom Text OFF

(4) Gateway TX

Functions	To set whether to enable	or disable transmission of e-mail during fax transfer in gate-
Use	way communications.	
Setting/ Procedure	The default setting is "Restrict".	
	Allow	"Restrict"

(5) Subject Registration

Functions	To set the subject during transmission.
Use	 To enter the subject during transmission.
Setting/ Procedure	The maximum number of characters to be registered is 40 en-size (20 em-size) charac- ters.

(6) Division Settings <Page Division>

Functions	 To set whether or not to make page division during transmission. 	
Use	 To transmit data by div 	viding it by the page.
Setting/ Procedure	The default setting is "OFF".	
	ON	"OFF"

<Binary Division>

Functions	 To set whether or not to make binary division during transmission. 	
Use	 To transmit data through binary division. 	
Setting/ Procedure	The default setting is "OFF".	
	ON "OFF"	

<Binary Division Size>

Functions	To set the binary division size.
Use	 To set the binary division size when Binary Division is set to [ON].
Setting/ Procedure	 The default setting is "500 KB". Setting range: 16 to 2000 KB Enter the value from the 10-Key Pad and touch [Enter].

LDAP Setting 9.5.6

A. LDAP Search

Functions	 To enable or disable address search using the LDAP server.
Use	 To enable address search using the LDAP server.
Setting/ Procedure	The default setting is "No".
	Yes "No"

B. LDAP Server Setting

(1) LDAP Server Name

Functions	To set the LDAP server name.	
Use	To enter the LDAP server name.	
Setting/ Procedure	 Touch the [LDAP Server Setting]. Touch the LDAP server key to be registered or changed. Touch the [LDAP Server Name]. Enter the LDAP Server Name of the local machine from the 10-Key Pad or the keyboard on the screen and then touch [Enter]. 	

(2) Server Address

Functions	To set the IP address of the LDAP server.
Use	 To enter the IP address of the LDAP server.
Setting/ Procedure	 IP address Version 4 format [0 to 255]. [0 to 255]. [0 to 255]. [0 to 255]

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(3) Search Base

Functions	To set the starting point of LDAP search.	
Use	 To enter the starting point of LDAP search. 	
Setting/ Procedure	 Touch the [Search Base]. Enter the starting point from the 10-Key Pad or the keyboard on the screen and then touch [Enter]. 	

(4) Authentication Setting

Functions	To make settings for authentication.
Use	 General Settings: Use to select the LDAP authentication method. Login name: Use to set the logon name for authentication. Password: Use to set the password for authentication. Domain Name: Use to set the domain name for authentication by GSS-SPNEGO.
	<general settings=""> • The default setting is "Anonymous".</general>
Setting/ Procedure	"Anonymous" Simple Digest-MD5/CRAM-MD5 GSS-SPNEGO
	<login name=""> 1. Touch the [Login name]. 2. Enter the logon name from the 10-Key Pad or the keyboard on the screen and then touch [Enter].</login>
	<password> 1. Touch the [Password]. 2. Touch [New Password], enter the password, and then touch [Enter]. 3. Touch [Confirm New Password], enter the password once again, and then touch [Enter].</password>
	<domain name=""> Touch the [Domain Name]. Enter the domain name from the 10-Key Pad or the keyboard on the screen and then touch [Enter]. </domain>

(5) Maximum number of search

Functions	To change the maximum number of search items for LDAP search.
Use	
Setting/	The default setting is "100".
Procedure	5 to 100

(6) Connection time out

Functions	To change the connection timeout for the LDAP server.
Use	
Setting/	The default setting is "60 sec".
Procedure	5 to 300

(7) SSL/TLS

Functions	 To set whether or not to use SSL/TLS during communications carried out with the LDAP server.
Use	 To use SSL/TLS during communications carried out with the LDAP server.
Setting/	The default setting is "OFF".
Procedure	ON "OFF"

(8) Port Number

Functions	• To abange the part number used for communications with the LDAD server
Use	• To change the port number used for communications with the LDAF server.
Setting/ Procedure	The default setting is "389".
	1 to 65535

(9) Initialize Setting

Functions	To format all pattings made in LDAD Service Setting
Use	
Setting/ Procedure	 Touch the [Initialize Setting]. Select [Yes] and touch [Enter].

(10) Check Connection

Functions	To check connection to the LDAP server.
Use	
Setting/ Procedure	 Touch the [Check Connection]. When the message indicating the completion of connection check appears, touch [Enter].

9.5.7 Frame Type Set

Functions	To set the frame type for NetWare settings of NIC.
Use	 To specify the frame type used for communications.
Setting/ Procedure	The default setting is "Auto Detect". "Auto Detect" Ethernet-II 802.2 802.3 SNAP

9.5.8 Prefix/Suffix Settings

A. ON/OFF Setting

Functions	 To set whether to add Prefix or Suffix to the address when calling or entering an address.
Use	To add Prefix or Suffix to the address.
Setting/	The default setting is "OFF".
Procedure	ON "OFF"

(1) Key Name

Functions	 To set the Key Name for Prefix/Suffix Settings.
Use	 To enter the Key Name for Prefix/Suffix Settings.
Setting/ Procedure	 Touch the [Key Name]. Enter the Key Name (consisting of up to eight en-size characters) from the 10-Key Pad or the keyboard on the screen and then touch [Enter].

(2) Fixed File Format

Functions	To set whether or not to fix the file format.
Use	To select not to fix the file format.
Setting/	The default setting is "ON".
Procedure	"ON" OFF

(3) Prefix Setting

Functions	To register or change the Prefix.
Use	 To register or change the address displayed for Prefix.
Setting/ Procedure	Up to ten en-size characters can be used.

(4) Suffix Setting

Functions	To register or change the Suffix.	
Use	 To register or change the address displayed for Suffix. 	
Setting/ Procedure	Up to 30 en-size characters can be used.	

9.5.9 Printer Setting

A. Timeout

Functions	To set the timeout for reception of print data.		
Use	 To change the timeout for reception of print data. 		
Setting/ Procedure	 Touch the [Timeout]. Press the Clear key and enter the value from the 10-Key Pad. The default setting is "300 sec". 		
	10 to 1000		

9.5.10 Software SW

Functions	 To set the status of each function according to the use using the software switch. 		
Use	 To change the status of each function using the software switch. 		
Setting/ Procedure	 Call Admin. 2 to the screen and touch [Software SW]. Touch [Mode Selection] and enter the mode number (a 3-digit numeral) using the 10- Key Pad. Touch [Bit Selection]. Align the cursor using [←] or [→] key and define the bit with 0 or 1 of the 10-Key Pad. (To define the value in hexadecimal, touch [HEX Selection] and enter the value using the 10-Key Pad and A to F keys.) Touch the [Enter]. 		

9.5.11 Ping

Functions	To execute Ping.	
Use	To check the TCP/IP network for condition.	
Setting/ Procedure	 Touch the [Ping]. Select the address key to be executed and press the Start key. 	

9.5.12 Delete Job

Functions	To delate all confidential print jobs	
Use		
Setting/ Procedure	 Touch the [Delete Job]. Select [Yes] and touch [Enter]. 	

9.5.13 SSL/TLS

Functions	To set whether or not to use SSL/TLS for communications.		
Use	To use SSL/TLS for communications.		
Setting/ Procedure	The default setting is "OFF".		
	ON	"OFF"	

9.6 Reports

9.6.1 TX Report

Functions Use	To print the TX report.	
Setting/ Procedure	 Press the Utility/Counter key and touch [Reports]. Touch the [TX Report]. 	

9.6.2 RX Report

Functions	To print the RY report	
Use		
Setting/ Procedure	 Press the Utility/Counter key and touch [Reports]. Touch the [RX Report]. 	

9.6.3 One-Touch List

Functions	To print the one-touch list	
Use		
Setting/ Procedure	 Press the Utility/Counter key and touch [Reports]. Touch the [One-Touch List]. 	

9.6.4 Mail Program List

Functions	To print the mail program list.	
Use		
Setting/ Procedure	 Press the Utility/Counter key and touch [Reports]. Touch the [Mail Program List]. Select the mail program to be printed. 	

9.7 Settings in the Printer Setting

9.7.1 MFP Set

A. Proof Print Hold Time

Functions	• To change the hold time of the proof print job
Use	
Setting/	The default setting is "10 min."
Procedure	"10 min." 20 min. 30 min.

B. Overwrite A4 \leftarrow →Letter

Functions	 To set whether to enable or disable the override function of A4 and Letter. 		
Use	 To enable the function that allows Letter to be used instead of A4, or vice versa, for printout. 		
Setting/ Procedure	The default setting is "OFF".		
	ON	"OFF"	

C. Document Hold Time

Functions	 To change the hold time of print data invoked when a condition, in which memory
Use	capacity has exceeded, at the expiration of which the print data is discarded.
Setting/ Procedure	The default setting is "5Min".Setting range: 0 to 30

D. PostScript Error Report

Functions	• To set whether or not to print error information when an error occurs during computer printing.
Use	 To print error information when an error occurs during computer printing.
Setting/ Procedure	The default setting is "OFF".
	ON "OFF"

9.7.2 Default Set

- A. Basic
- (1) Tray

Functions	 To set a paper source when none is specified by the printer driver during computer printing.
Use	 To specify a paper source when one cannot be specified by the printer driver during printing from Windows DOS or in a similar case.
Setting/ Procedure	The default setting is "Auto Paper Select".
(2) Paper Size

Functions	• To set a paper size when none is specified by the printer driver during computer print- ing.
Use	 To specify a paper size when one cannot be specified by the printer driver during print- ing from Windows DOS or in a similar case.
Setting/ Procedure	<for u.s.=""> • The default setting is "Letter". <for europe=""> • The default setting is "A4".</for></for>

(3) Original Direction

Functions	 To set orientation of the image when none is specified by the printer driver during com- puter printing.
Use	 To specify orientation of the image when one cannot be specified by the printer driver during printing from Windows DOS or in a similar case.
Setting/ Procedure	The default setting is "Portrait".

(4) Print Method

Functions	 To set a print method when none is specified by the printer driver during computer printing. 		
Use	 To specify a print method when one cannot be specified by the printer driver during printing from Windows DOS or in a similar case. 		
Setting/ Procedure	[Print Method] • The default setting is "Simple "Simplex" 2-Si [Binding Method] • The default setting is "left bind"	r". ied Print ". Top bind	

(5) # of Sets

Functions	 To set the number of copy sets when none is specified by the printer driver during com- puter printing.
Use	 To specify the number of copy sets when one cannot be specified by the printer driver during printing from Windows DOS or in a similar case.
Setting/ Procedure	The default setting is "1 Set".Setting range: 1 to 999

B. Font

(1) Font

Functions	 To set the font when not specified by the printer driver during PC printing.
Use	 To use when the printer driver cannot specify the font during printing from Windows DOS, etc.
Setting/ Procedure	The default setting is "0" (Courier).Setting range: 0 to 80

(2) Symbol Set

Functions	• To set the Font Symbol Set when not specified by the printer driver during PC printing.
Use	 To use when the Font Symbol Set cannot be specified by the printer driver during print- ing from Windows DOS, etc.
Setting/ Procedure	 Setting range: 0 to 35 <for u.s.=""></for> The default setting is "29" (Window 3.1 Latin2). <for europe=""></for> The default setting is "35" (ISO8859-10).

(3) Number Lines

Functions	 To set the number of lines per page for printing the text data. 		
Use	 To change the number of lines per page for printing the text data. 		
Setting/ Procedure	 Setting range: 5 to 128 For U.S.> The default setting is "60". For Europe> The default setting is "64". 		

(4) Font Size

Functions	To set the font size when not specified by the printer driver during PC printing.
Use	• To set the font size when it cannot be specified by the printer driver during printing from Windows DOS, etc.
Setting/ Procedure	 The default setting is "Bit Map Font Size" (10.00 Pitch). Setting range: Scalable font (4.00 to 999.75 points) Setting range: Bit map font size (0.44 to 99.00 pitch)

(5) CR/LF Mapping

Functions	 To set the mode for replacing data when printing the text data. 	
Use	 To change the mode for replacing data when printing the text data. OFF: Does not replace Mode 1: Replacing CR with CR-LF Mode 2: Replacing LF with CR-LF Mode 3: Replacing CR and LF with CR-LF, and FF with CR-FF 	
Setting/ Procedure	The default setting is "OFF". "OFF" Mode 1 Mode 2 Mode 3	

9.7.3 PDL Set

Functions	 To set the PDL (Page) 	ge Description La	nguage) for PC printing.	
Use	 To fix the PDL as r 	ecessary. It usua	ly switches automatically.	
Setting/	 The default setting 	is "Auto".		
Procedure	Auto	PCL	PostScript	

9.7.4 Test Print

Functions	 To output the report or Demo Page concerning the print setting. 		
	 To check the setting concerning the printer. The types of report available for output are as follows. 		
Use	Check Job Details: The list of printer setting will be output. PCL Demo Page: PCL Demo page will be output. PS Font List: PS Font List will be output. PCL Font List: PCL Font List will be output.		
Setting/ Procedure	 Press the Utility/Counter key, and then touch [Printer Setting] and [Test Print] in that order. Touch the test print key, for which test print is to be produced. 		

9.8 Check Detail

Functions	To check the counter reading or display a list of counters	
Use	· To check the counter reading of display a list of counters.	
Setting/ Procedure	 Press the Utility/Counter key. Touch the [Check Detail]. 	

Blank Page

10. Adjustment item list

Adj	justment/Setting	Replacer	nent Part/Service Job	NO	Replace Feed Roller	Replace Separation Roller	Replace Pick-up Roller	Replace Registration Roller Bearing	Replace Registration Roller Gear	Replace Transfer Roller Unit	Replace Photo Conductor Unit	Replace Developer	Replace Developing Unit	Replace Fusing Unit
-	D : /	Registrati	ion (CD)	1										_
e Fe	Printer	Registrati	ion (FD)	2										
Moc		Registrati	ion (CD)	3										
ust	0	Registrati	ion (FD)	4										
Adj	Scanner	Zoom (CI	D)	5										
		Zoom (FE	Zoom (FD)											
		F7-1	Document detec- tion adjustment	7										
	Function	F8	ATDC Sensor adjustment	8							(4)	(4)	(5)	
		F1	Paper passage test	9	(2)	(2)	(2)	(1)	(1)					
		FD	Bypass paper max/ min set	10										
		HDD For	HDD Format											
			PC Life Clear	12							(1)	(1)	(1)	
¢۵	Counter	Special Parts	I/C Life Clear	13							(2)	(2)	(2)	
lode	Counter	Counter	Developer Clear	14									(3)	
₽. Z			Counter clear	15	(1)	(1)	(1)			(1)				(1)
. Re		Ohaat	Registration Loop	16										
ech		Sheet- through-	Zoom	17										
Γ		ADF	Feed (CD)	18										
	Tech. Rep.		Feed (FD)	19										
	Choice		Leading Edge Erase	20										
		Printer	Trailing Edge Erase	21										
			Right/Left Edge Erase	22										
			Loop Adjustment	23				(2)	(2)					
		HDD sele	ection	24		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>				<u> </u>
	System Input Optional Original Size Sensor selection		25											
Sca	anner Position A	djustment		26										
Re	mounting of the	EEPROM		27										
Ins	tall I/U in machin	ne		28							(3)	(3)	(4)	
Re	place Developer			29										
F/V	V upgrading			30										

• This table shows the adjustment items that are required when a part of the machine has been replaced. Priority order, if applicable, during the adjustment procedures is indicated by the corresponding number in the parentheses.

N0	Replace ATDC Sensor	Replace Mechanical Control Board	Replace PH Unit	Replace CCD Unit	Wind Scanner Drive Cables	Install Scanner Unit	Replace Multi Bypass Unit	Install Hard Disk	Install Optional Original Size Sensors
1			(1)						
2			(2)						
3			(8)	(2)					
4			(9)		(3)				
5			(6)	(1)	(-)				
6			(7)		(2)				
7									(2)
8	(5)								
9							0		
10									
11								(2)	
12	(1)								
13	(2)								
14									
15									
16									
17									
18									
19									
20									
21	<u> </u>		(3)						
22			(4)						
23			(5)						
24								(1)	
25									(1)
26					(1)	0			
27		(1)							
28	(4)								
29	(3)								
30		(2)							

11.1 Tech. Rep. Mode function setting procedure

NOTE

 Ensure appropriate security for Service mode function setting procedures. They should NEVER be shown to any unauthorized person not involved with service iobs.

A. Procedure

- 1. Press the Utility/Counter key.
- 2. Touch [Check Detail].
- 3. Press the following keys in this order. Stop $\rightarrow 0 \rightarrow 0 \rightarrow$ Stop $\rightarrow 0 \rightarrow 1$

5. The Tech. Rep. Mode menu will appear.

4. Enter the 8-digit service code and touch [END]. (Default value: 00000000)

NOTE

- When [END] is touched after a wrong service code has been entered, the Basic screen reappears.
- At the fourth access after entries of three wrong access codes, [END] is not available on the screen. It is therefore necessary to turn OFF and ON the Main Power Switch.
- If you forget the service code, it becomes necessary to replace the RAMS Board with a new one. Take necessary steps not to forget the service code.
- The RAMS Board is not available as a replacement part. If it requires replacement, contact Office Printing Support Division by way of CSES.

	Tech.	Rep.	Mode	Exit
				J

Tech. Rep. Mode	Exit	
Tech. Rep.	System Input	
Administrator #	Counter	
Function	I/O Check	
Operation Check	CS Remote Care	
ROM Version	Level History	
FAX Set	Soft Switch Settings	
		4040E3E543F

NOTE

- To change the service code, see "Service Security Mode."
- 200

B. Exiting

· Touch the [Exit] key.

C. Changing the Setting Value in Service Mode Functions

- Use the +/- key to enter or change the setting value.
- Use the 10-Key Pad to enter the setting value. (To change the setting value, first press the Clear key before making an entry.)

11.2 Tech. Rep. Mode function tree

• The function tree is shown to comply with the format displayed on the screen.



4040F3E541DA

bizhub 200/250/350

		7
Counter	Paper	_
	Jam Counter	_
	Special Parts Counter	
	Service Call Counter	
	Application Counter	
	Maintenance Counter	-
	Fax Connection Counter *1]
Function]
	F2	
	F7-1	
	F7-2]
	F8	-
	F12	1
	Hard Disk Format	1
	FD	-
	FC	-
	Ora Width Dotoot Adjust	-
	Cig. Width Delect Adjust	-
	FW Download	
I/O Check	Printer	- Bypass/Duplex
	Scanner	Tray 1
		Tray 2
	Job Tray	Tray 3
	Shoot through ADE (2 sided)	Tray 4
	Sheet-through-ADF (2-sided)	Toner/Side Cover
	Finisher	Drive Motor Detect
		LCT
		Engine
Operation Check	ADF	Paper Passage
		ADF Sencor Adjust
		Backup Data Initialization
	Exp. Lamp Check]
		7
CS Remote Care		
ROM Version		
Lovel History		
Lever History		
FAX Set *1		

4040F3E542DA

*1: For more details, see FK-503 Service Manual.

11.3 Settings in the Tech. Rep. Choice

11.3.1 System Set

A. Auto Paper Configuration

Functions	 To select whether the paper source is selected according to the results of the original size detection or whether the nearest larger size is selected according to the marketing region.
Use	<inch metric=""> <inch metric=""> or <inch> is displayed according to the applicable marketing area.</inch></inch> <inches></inches> All original sizes detected are corrected to ones in mm. </inch>
Setting/ Procedure	The default setting is "Inch/Metric". <for u.s.=""> "Inch/Metric" Inches <for and="" europe="" others=""></for></for>

B. Priority Foolscap

Functions	 To set the paper size for foolscap. 			
Use	To change the paper size for foolscap.			
Setting/	 Select the foolscap paper size from among the following four. The default setting is "F: 330 mm, C: 210 mm". 			
Procedure	F: 330 mm			

C. Simplex/Duplex

Functions	• To select whether or not the [1→1] setting is available for the [Default Setting Simplex/ Duplex] function in User's Choice.
Use	 <simplex &="" duplex=""></simplex> To display all modes in [Default Setting Simplex/Duplex] of User's Choice. <duplex only=""></duplex> To display Duplex only in [Default Setting Simplex/Duplex] of User's Choice.
Setting/ Procedure	The default setting is "Inch/Metric". "Simplex & Duplex" Duplex Only

D. Dry Key Set

Functions	 To select whether or not t screen of the Utility/Count 	the [Dehumidify] button is available of the mode.	on the User Management
Use	 When the image density i Scanner> The [Dehumidify] button a Scanner/Drum> The [Dehumidify] button a and the PC Drum. Disable> The [Dehumidify] button of 	is low appears and the operation is perforn appears and the operation is perforn does not appear.	ned only for the scanner. ned for both the scanner
Setting/	 The default setting is "Sca 	anner/Drum".	
Procedure	Scanner	"Scanner/Drum"	Disable

E. Function Limit

Functions	To select whether or	r not access to some of the copy functions is restricted.
Use	 To disable some of t 	the copy functions.
Setting/	The default setting is	s "OFF".
Procedure	ON	"OFF"

F. [*] (Special image setting)

Functions	 To select whether or not to display the special image [*] key on the Density screen.
Use	 Highlight the [*] key on the Density screen and then select the appropriate mode to produce a special image output. When Photo mode is selected: Low density mode When Text mode is selected: The image density level is increased two steps higher than in the ordinary Text mode. When Text/Photo mode is selected: The image density level is increased one step higher than in the ordinary Text mode.
Setting/ Procedure	<[*] highlighted> • The special image key is displayed on the Density screen. <[*] not highlighted> • The special image key is not displayed on the Density screen.

11.3.2 Printer

A. Edge Erase

Functions	• To change the laser emission timing to adjust the width of the image area that is erased at the leading edge, trailing edge and top and bottom.			
Use	When the PH unit is replaced			
Adjustment Specifica- tion	Width A Width B Adjust the following erase width values so that each falls within the following adjustment range: Width A (Leading Edge); Width B (Trailing Edge); and Width C (Top/Bottom). Default setting: 4 mm Adjustment range: 0 to 5 mm (in 1-mm incre- ments) The default setting for 2-sided trailing edge			
Adjustment	To make the erase width (Width A, B, or C) smaller, decrease the setting value.			
Instructions	To make the erase width (Width A, B, or C) greater, increase the setting value.			
Adjustment Procedure	 Call the Tech. Rep. Mode to the screen. Touch the keys in this order: [Tech. Rep. Choice] → [Printer] → [Edge Erase]. Select the specific edge to be adjusted. Press the Clear key and change the setting value using the 10-Key Pad. Touch [END] to validate the new setting value. 			

B. Loop Adjustment

Functions	 To adjust the length of the loop formed in the paper before the Regist Rollers.
Use	When a paper skew occurs.When a paper jam occurs.
Adjustment Range	 The default setting is "0". The adjustment range is -5 mm to +5 mm. (in 1 mm increments)
Adjustment Procedure	 Call the Tech. Rep. Mode to the screen. Touch the keys in this order: [Tech. Rep. Choice] → [Printer] → [Loop Adjustment]. Select the paper source, for which the adjustment is made. Press the Clear key and change the setting value using the 10-Key Pad. Change the + or - sign using the Access key or * key. Touch [END] to validate the new setting value.

C. Image density

Functions	 To change the Vg and Vb of the engine to select the image density.
Use	 When the image density is high or low: With the Printing Density setting specified in User's Choice as a reference point, the density can be set to one of seven settings.
Adjustment Range	 The default setting is "0". The adjustment range is -3 mm to +3 mm. (in 1 mm increments)
Adjustment Instructions	If the image density is high, decrease the setting value. If the image density is low, increase the setting value.
Adjustment Procedure	 Call the Tech. Rep. Mode to the screen. Touch the keys in this order: [Tech. Rep. Choice] → [Printer] → [Image density]. Press the Clear key and change the setting value using the 10-Key Pad. Change the + or - sign using the Access key or * key. Touch [END] to validate the new setting value.

D. ATDC Sensor Gain

Functions	 To display the value automatically adjusted using function F8 and to change that value.
Use	 When the spare Developing Unit or the Imaging Unit has been temporarily used Current> ATDC control voltage automatically adjusted using function F8 Job Setting> Normally, the value displayed here is the same as that displayed for Current. NOTE If a Developing Unit other than a new one is installed, type in the setting for the installed product.
Adjustment Range	The adjustment range is 0 to 255.
Adjustment Procedure	 Call the Tech. Rep. Mode to the screen. Touch the keys in this order: [Tech. Rep. Choice] → [Printer] → [ATDC Sensor Gain]. Press the Clear key and change the setting value using the 10-Key Pad Touch [END] to validate the new setting value.

E. Grid Voltage Adjustment

Functions	 To change the Vg setting for sensitivity variations due to the durability of the PC Drum and adjust the image density.
Use	 When the PC Drum Unit is replaced If a foggy background occurs, increase the setting value.
Adjustment Range	 The default setting is "0". The adjustment range is -2 to +2.
Adjustment Procedure	 Call the Tech. Rep. Mode to the screen. Touch the keys in this order: [Tech. Rep. Choice] → [Printer] → [Grid Voltage Adjustment]. Press the Clear key and change the setting value using the 10-Key Pad Touch [END] to validate the new setting value.

F. Fuser Temp.

Functions	 To adjust the temperature of the Fusing Roller for each paper type in order to change the fusing performance according to the operating environment and paper type.
Use	To adjust the fusing temperature for each type of paper.When a fusing failure occurs.When the paper type is changed.
Adjustment Range	 The default setting is "1". Setting Range: 1 to 4 (Normal) 1 to 3 (Thick Paper) 1 to 3 (OHP) 1 to 3 (Thin Paper)
Adjustment Procedure	 Call the Tech. Rep. Mode to the screen. Touch the keys in this order: [Tech. Rep. Choice] → [Printer] → [Fuser Temp.]. Select the paper, for which the adjustment is made. Press the Clear key and change the setting value using the 10-Key Pad Touch [END] to validate the new setting value. For more details, see the temperature table for fusing temperature adjustment. 157

11.3.3 Sheet-through-ADF

A. Registration Loop

Functions	To adjust the length of the loop formed in the paper before the Registration Rollers.
Use	 If slippage occurs due to a worn Document Take-Up Roller, which sometimes results in misfeeds, the loop length may be increased as a temporary measure until the part can be replaced with a new one.
Setting/ Procedure	For details on adjustment, see the Service Manual for Option DF-605.

B. Zoom

Functions	 To set the scanning zoom ratio in the main and sub scanning directions of the Sheet- through-ADF.
Use	Upon setup of the Automatic Document Feeder
Setting/ Procedure	For details on adjustment, see the Service Manual for Option DF-605.

C. Feed (CD)

Functions	 To adjust the scan start position in the main scanning direction (CD) of the Sheet- through-ADF.
Use	 Upon setup of the Automatic Document Feeder
Setting/ Procedure	For details on adjustment, see the Service Manual for Option DF-605.

D. Feed (FD)

Functions	 To adjust the scan start position in the sub scanning direction (FD) of the Sheet- through-ADF.
Use	Upon setup of the Automatic Document Feeder
Setting/ Procedure	For details on adjustment, see the Service Manual for Option DF-605.

11.3.4 The amount of Center Erase

Functions	 To set the amount of center erase for bound originals.
Use	 To change the amount of center erase for bound originals.
Setting/ Procedure	The default setting is "12 mm".The adjustment range is 2 to 20 mm.

11.3.5 Orientation Change

Functions	 To set whether or not to match the orientation of the image when paper is fed out between the normal mode and Staple and Punch mode.
Use	<on> Turn ON the function if the orientation of the image when paper is fed out is matched between the normal mode and Staple and Punch mode. </on>
	<off> Turn OFF the function if the orientation of the image when paper is fed out is not matched between the normal mode and Staple and Punch mode. </off>
Setting/ Procedure	The default setting is "OFF". ON "OFF"

11.3.6 Finisher

A. Punch Stop Position

Functions	 To adjust the paper stop position for punching.
Use	To adjust the punch position.
Setting/ Procedure	For details on adjustment, see the Service Manual for Option FS-508.

B. Punch Loop Adjustment

Functions	 To adjust the length of the loop for correcting skew during punching.
Use	 To correct any skew in the punch position.
Setting/ Procedure	For details on adjustment, see the Service Manual for Option FS-508.

11.3.7 Trail Erase (Dup)

Functions	 To set the adjustment value for the amount of erase on the trailing edge for 2-sided printing.
Use	 The amount erased at the trailing edge of the second side of a 2-sided print is the Trail- ing setting for Edge Erase + Duplex Trailing Erase setting.
Setting/ Procedure	The default setting is "2 mm".The adjustment range is 0 to 5 mm.

11.4 Table of Temperatures for Adjusting the Fusing Temperature

11.4.1 Standard paper

Touch Panel Setting			Marketing region	Tech. Rep. C	hoice Setting
		Paper width		Mode 1	Mode 3
				Heater tempera	ture (main/sub)
		221 or more 220 mm or	U.S.	180 °C	
	bizbub 350		Europe	200 °C	190 °C
	DIZTIUD 330		U.S.	170	0°C
1		less	Europe	180 °C	
		221 or more	U.S.	180	.°C
	bizhub 250	221 01 11016	Europe	180 °C	
	bizhub 200	220 mm or	U.S.	160	0°C
		less	Europe	180	0°C
		221 or more	U.S.	190 °C	
	bizbub 350	221 01 11016	Europe	200	0°C
	DIZTIUD 330	220 mm or	U.S.	180 °C	
2		less	Europe	190	0°C
2		221 or more	U.S.	190 °C	
	bizhub 250 bizhub 200	221 of more	Europe		
		220 mm or less	U.S.	170 °C	
			Europe	190	0°C
	bizhub 350	221 or more 220 mm or less	U.S.	200	0°C
			Europe	190	0°C
			U.S.	190	0°C
2			Europe	170	0°C
5	bizhub 250 bizhub 200	221 or more	U.S.	200	• C
			Europe	200	
		220 mm or less	U.S.	180	0°C
			Europe	200	0°C
	bizhub 350	221 or more 220 mm or less	U.S.	170	0°C
			Europe	180	0°C
4			U.S.	160 °C	.°C
			Europe		0
4		bizhub 250 bizhub 200 220 mm or less	U.S.	170	°C
	bizhub 250		Europe	170 -C	
	bizhub 200		U.S.	160	°C
			Europe	170	0°C

11.4.2 Special Paper

	Tech. Rep. Choice Setting		
Touch Panel Setting	Mode 1	Mode 3	
	Heater temperature (main/sub)		
1	200	O° (
2	190	O° (
3	180	D° (

11.4.3 OHP

Touch Panel Setting		Tech. Rep. Choice Setting	
		Mode 1	Mode 3
		Heater tempera	iture (main/sub)
	bizhub 350	165	j °C
1	bizhub 250 bizhub 200	160 °C	
	bizhub 350	170 °C	
2	bizhub 250 bizhub 200	170 °C	
	bizhub 350	155 °C	
3	bizhub 250 bizhub 200	150 °C	

11.4.4 Thin Paper

	Tech. Rep. Choice Setting		
Touch Panel Setting	Mode 1	Mode 3	
	Heater tempera	ture (main/sub)	
1	170	0°C	
2	180	0°C	
3	160	0°C	

11.5 Settings in the System Input

11.5.1 LCT Paper Size

Functions Use	To enter the paper size when the LCT is installed.The function can be set only when the LCT is mounted on the machine.		
Setting/ Procedure	The default setting is "Letter". <for u.s.=""> A4 "Letter" <for and="" europe="" others=""> "A4" Letter</for></for>		

11.5.2 Change Fixed Zoom

Functions	• To obange the fixed zoom ratio
Use	• To change the fixed zoon ratio.
Adjustment Range	x0.250 to x4.000 (common to all zoom keys)
Setting/ Procedure	 Call the Tech. Rep. Mode to the screen. Touch [System Input] and [Change Fixed Zoom] in that order. Select the specific zoom ratio to be changed. Press the Clear key and change the setting value using the 10-Key Pad. Touch [Set] to validate the setting value.

11.5.3 Machine Configuration

Functions	Displays the machine configuration.
Use	 [Yes] or [No] indicates whether or not the option is installed.
Setting/ Procedure	 Call the Tech. Rep. Mode to the screen. Touch [System Input] and [Machine Configuration] in that order.

11.5.4 Technical Memo

Functions	Enter the serial number and other data.
Use	
Setting/ Procedure	 Call the Tech. Rep. Mode to the screen. Touch [System Input] and [Technical Memo] in that order. Enter the Password from the 10-Key Pad or the keyboard on the screen and touch [Enter].

11.5.5 Hard Disk

Functions	To set whether or not the HDD is mounted.
Use	 Select [Yes] if the HDD is mounted. [Yes] is automatically set when Hard Disk Format is executed.
Setting/ Procedure	The default setting is "No".
	Yes "No"

11.5.6 Original Size Detecting Option

Functions	 To set whether or not the optional Original Size Sensors are mounted.
Use	 Select [Yes] when the optional Original Size Sensors are mounted.
Setting/	The default setting is "No".
Procedure	Yes "No"

11.6 Settings in the Administrator # Initialize

Functions	To initialize the administrator number.
Use	To initialize the administrator number (00000000).
Setting/ Procedure	 Call the Tech. Rep. Mode to the screen. Touch the [Administrator # Initialize]. Select [Yes] and touch [Enter].

11.7 Settings in the Counter

11.7.1 Checking the counter reading

- 1. Call the Tech. Rep. Mode to the screen.
- 2. Touch the [Counter].
- 3. Touch [Check] and the specific counter key whose reading is to be checked.

11.7.2 Clearing readings of all counters at once

- 1. Call the Tech. Rep. Mode to the screen.
- 2. Touch the [Counter].
- 3. Touch the [Counter Reset].
- 4. Touch the counter keys to be cleared and then touch [OK].

11.7.3 Clearing the reading of a specific counter

- 1. Call the Tech. Rep. Mode to the screen.
- 2. Touch the [Counter].
- Touch the specific counter key to be cleared and press the Clear key. If the reading of a wrong counter key has been cleared, press the Interrupt key to undo the clearing operation.

11.7.4 Paper

Functions	• To display the number of sheets used for each paper size and each paper type.
Use	To clear the data for any counter.
Setting/ Procedure	Checking the counter reading The function of the counter reading (all and a specific one) The function of the counter reading (all and a specific one) The function of the counter reading (all and a specific one)

Adjustment / Setting

11.7.5 Jam Counter

Functions	 To display the number and frequency of misfeeds.
Use	To clear the data for any counter.
Setting/ Procedure	Checking the counter reading 160 Clearing the counter reading (all and a specific one) 160

11.7.6 Special Parts Counter

Functions	 To display the number of times that each PM part is used. To clear the data for any counter.
Use	 When any maintenance part is replaced. PC Life: Is the ratio of the PC Drum rotation compared to PC Drum Life. Clear this counter when the PC Drum Unit or developer has been replaced. I/C Life: Displays the number of prints according to the length of the paper. Developer: Number of times that the Developing Unit is replaced. Automatically counts up when the PC Life counter is cleared. Bypass: Number of sheets of paper fed from the Manual Feed Tray. Tray 1: Number of sheets of paper fed from the Tray 1. Tray 2: Number of sheets of paper fed from the Tray 3. Tray 3: Number of sheets of paper fed from the Tray 4. LCT Parts 1: Number of sheets of paper fed from the LCT. Other PM Parts 1: Number of sheets of paper fed. Other PM Parts 3: Number of sheets of paper fed. ADF Take-Up: Number of document pages fed through the take-up section of the ADF. ADF Take-Up: Number of IR scans. IR 1: Number of IR scans. Toner Pages: Number of pages equivalent to the number of black dots on A4 original with B/W 5% Fusing Unit: Number of pages fed out.
Setting/ Procedure	Checking the counter reading 160 Clearing the counter reading (all and a specific one) 160

11.7.7 Service Call Counter

Functions	 To check the number of malfunctions that have occurred for each type of malfunction. To clear the data for the counter.
Use	
Setting/ Procedure	Checking the counter reading The function of the counter reading (all and a specific one) The function of the counter reading (all and a specific one) The function of the counter reading (all and a specific one)

11.7.8 Application Counter

Functions	To display or clear the readings of application counters.
Use	 Copy: Number of copies made Printer: Number of printed pages produced via computer List Print: Number of printed pages of lists Fax Print: Number of printed pages received as fax and mail Fax Transmission: Number of pages of fax transmitted Mail Transmission: Number of pages transmitted by fax/scanner
Setting/ Procedure	Checking the counter reading 160 Clearing the counter reading (all and a specific one) 160

11.7.9 Maintenance Counter

Functions	 To set the counter value at which maintenance should be performed for any given part.
Use	<maintenance (set)="" counter=""> Use the Keypad to type in the maintenance counter value. When the reading reaction a predatormined value. </maintenance>
	 When the reading reaches a predetermined value, appears in the sub-message display area. <maintenance (count)="" counter=""></maintenance> Counts up when a sheet of paper is fed through the copier.
Setting/ Procedure	Checking the counter reading 160 Clearing the counter reading (all and a specific one) 160

11.8 Settings in the Function

11.8.1 F1

Functions	 To check the paper feeding in the paper take-up/transport sections without printing on the paper with the engine unit.
Use	When a paper misfeed occurs.
Setting/ Procedure	 From the Tech. Rep. Mode screen, touch [Function] → [F1] in that order. Select the paper source, and then press the Start key. Touch [Duplex] to feed out the paper along the paper path for 2-sided copying. The sequence is halted when the Stop key is pressed or there is no paper. These pages are not counted with the counters.

11.8.2 F2

• This test is for factory adjustment only and should NOT be used.

11.8.3 F7-1

Functions	 To automatically adjust the Original Size Detecting Sensor.
Use	 When the Original Size Detecting Sensor is replaced When an optional sensor is mounted
Setting/ Procedure	 From the Tech. Rep. Mode screen, touch [Function] → [F7-1] in that order. ✓ 109

11.8.4 F7-2

Functions	 To automatically adjust the Original Size Detecting Sensor. (only for a FAX)
Use	When the Original Size Detecting Sensor is replacedWhen an optional sensor is mounted
Setting/ Procedure	For details on adjustment, see the Service Manual for Option FK-503.

11.8.5 F8

Functions	 To automatically adjust the ATDC sensor.
Use	When developer is replaced
Setting/ Procedure	 From the Tech. Rep. Mode screen, touch [Function] → [F8] in that order. Press the Start key to perform the ATDC sensor gain adjustment. After the adjustment is finished, the operation stops automatically. The adjusted setting overwrites the current setting for ATDC Sensor Gain in Printer of Tech. Rep. Mode.

11.8.6 F12

Functions	• To print on paper with the engine unit and check the printing and paper feeding in the
Use	paper take-up/transport sections.
Setting/ Procedure	 From the Tech. Rep. Mode screen, touch [Function] → [F12] in that order. Select the paper source, and then press the Start key. Touch [Duplex] to feed out the paper along the paper path for 2-sided copying. The sequence is halted when the Stop key is pressed or there is no paper.

11.8.7 Hard Disk Format

Functions	To format the hard disk.
Use	When a hard disk drive is installed.When the hard disk is initialized.
Setting/ Procedure	 From the Tech. Rep. Mode screen, touch [Function] → [Hard Disk Format] in that order. Press the Start key to start the HDD formatting sequence. NOTE NEVER turn OFF the power while the formatting sequence is in progress. Turn OFF the Main Power Switch, wait for 10 sec. or more, and turn ON the Main
	Power Switch again.

11.8.8 FD

Functions	To set the maximum and minimum sizes for manually fed paper.
Use	When the Manual Feed Unit is replaced.
Setting/ Procedure	<maximum size=""> From the Tech. Rep. Mode screen, touch [Function] → [FD] in that order. Load paper with a maximum size of 301 mm into the Manual Feed Tray. In the Touch Panel, touch [Maximum Size], and then press the Start key to automatically adjust the setting. Minimum Size> From the Tech. Rep. Mode screen, touch [Function] → [FD] in that order. Load paper with a minimum size of 89 mm into the Manual Feed Tray. In the Touch Panel, touch [Minimum Size], and then press the Start key to automatically adjust the setting. </maximum>

11.8.9 FC

Functions	To check the Finisher operations.
Use	Mode 1: Performs the move operation for the Stapling Unit. Mode 2: Performs the move operation for the Aligning Plate. Mode 3: Performs the ascent operation for the Elevator Tray. Mode 4: Performs the descent operation for the Elevator Tray. Mode 5 '': Performs the Punch drive operation. Mode 6 '': Performs the Punch drive operation. (2 holes) Mode 7: Performs the open/close operations for the Exit. Mode 8 '2: Performs the open/close operations for the Saddle Exit. Mode 9 '2: Performs the open/close operations. Mode 10: Drives the transport section. Mode 11: Performs the open/close operations for the Shutter. Mode 12 '3: Drives the Mail Bin Solenoid. Mode 13: Performs the single rotate operation for the Storage Paddle. Mode 14: Performs the single rotate operation for the Exit Paddle.
Setting/ Procedure	1. From the Tech. Rep. Mode screen, touch [Function] \rightarrow [FC] in that order. 2. Select an operation, and then press the Start key to begin the operation.

*1: appears only when the Punch Kit PU-5016 is installed.

*2: appears only when the Saddle Kit SD-502 is installed.

*3: appears only when the Mail Bin Kit MT-501 is installed.

11.8.10 Org. Width Detect Adjust

Functions	To set the maximum and minimum sizes of the original for the ADE
Use	
Setting/ Procedure	For details on adjustment, see the Service Manual for Option DF-605.

11.8.11 FW Download

Functions	To upgrade the firmware of the engine or Finisher.			
Use				
Setting/ Procedure	 For details of upgrading of engine firmware, see p. 44. For details of upgrading of Finisher firmware, see FS-508 (Option) Service Manual. 			

Adjustment / Setting

11.9 I/O Check

Functions	 To display the states of the input ports of sensors and switches when the machine remains stationary.
Use	 Used for troubleshooting when a malfunction or a misfeed occurs.
Setting/ Procedure	 The operation of each of the switches and sensors can be checked on a real-time basis. It can be checked as long as the 5-V power line remains intact even when a cover is open.

11.9.1 Electrical Components Check Procedure Through Input Data Check

<Example>

- When a paper misfeed occurs in the paper take-up section of the machine, the Vertical Conveyance Sensor is considered to be responsible for it.
- 1. Remove the sheet of paper misfeed.
- From the Sensor Check List that follows, check the panel display of the Vertical Conveyance Sensor. For the Vertical Conveyance Sensor, you check the data of "2nd Paper Feed".
- 3. Call the Service mode to the screen.
- Touch [I/O Check] → [Printer] → [Bypass/Duplex] in that order and call to the screen the sensor check screen that contains 2nd Paper Feed.
- 5. Check that the data for 2nd Paper Feed is [0] (sensor blocked).
- 6. Move the actuator to unblock the Vertical Conveyance Sensor.
- 7. Check that the data for 2nd Paper Feed changes from [0] to [1] on the screen.
- 8. If the input data is [0] change the sensor.

11.9.2 I/O Check Screens

• These are only typical screens which may be different from what are shown on each individual machine.

Bypass/Duplex		END	
Paper Passage		FD Size 3	0
Timing Roller	0	FD Size 4	0
Exit	0	Bypass Tray Pick Vp	0
2nd Paper Feed	0	Duplex	
3rd Paper Feed	0	Duplex Paper Passage 1	0
4th Paper Feed	0	Duplex Paper Passage 2	0
Bypass		Reverse	0
Bypass Tray	0	Duplex Set	0
Paper Empty	0	Duplex Cover	0
FD Size 1	0	Bypass Paper Width Detect	
FD Size 2	0	Bypass Paper Width Detect	0

Tray 1		END]
Tray Set	01		
Paper Near Empty	0		
Paper Empty	0		
Upper Side Detect	o		
CD Size 1	0		
CD Size2	0		
FD Size 1	0		
FD Size 2	0		
FD Size 3	0		
FD Size 4	0		

Tray 2		END
Tray Set	0	
Paper Near Empty	0	
Paper Empty	0	
Vpper Side Detect	0	
CD Size 1	0	
CD Size2	0	
FD Size 1	0	
FD Size 2	0	
FD Size 3	0	
FD Size 4	0	
2nd Take-up	0	

Tray 3		[END
Tray Set	0	Pickup	0
Paper Near Empty	0		
Paper Empty	0		
Vpper Side Detect	0		
CD Size 1	0		
CD Size2	0		
FD Size 1	0		
FD Size 2	0		
FD Size 3	0		
FD Size 4	0		
Take-up Lower	0		

Tray 4		END
Tray Set	01	
Paper Near Empty	0	
Paper Empty	0	
Upper Side Detect	0	
CD Size 1	0	
CD Size2	0	
FD Size 1	0	
FD Size 2	0	
FD Size 3	0	
FD Size 4	0	
Pickup	0	

Toner/Side Cove	er	(END
Side Cover Front Cover Sub Hopper Empty	0 0 0		

Drive Motor Detect		END
Main Motor	0	1
1/U Motor	0	
Polygon Motor	0	
Cooling Fan (Power Supply)	0	
Cooling Fan	0	
IU Cooling Fan Ioner Suction	0	
(Ventilation)	0	

LCT		END	
LCT1		LCT2	
Vertical Transport	0	Raised(Lift-Up)	0
Feed	0	Lowered (Lift up)	0
Shift Tray		Home(Shift)	0
Paper Empty	0	Shift Tray Stop Position	0
Main Tray		Elev. Mtr Pulse	0
Paper Empty	0	Shift Mtr Pulse	0
Paper Empty	0	Dividing Position	0
Lower Overrun	0	Right Door Open	0
Manual Button Down	0		
Tray Open	0		

4040F3E548DA

Engine END		Scanner END
Fusing Fusing	0	Scanner(HP) 0 Size reset S 0 Orig. cover detecting S 0
Job Tray		Sheet-through- BDF(2-sided)-
Upper Tray Full 0 Turn Over Unit 0 Job Tray 0		Empty00
Finisher Fwd END		Finisher Back Fwd END Finisher Tray I Staple Home 0
Sensor Liter, I Paper Passage (HOddSurface(Elev,)) Paper Passage (FOedOptional Tray Tray (Elevate) Elevate Tray Elevate Tray Upper/Lowered 0 Shutter Status 0 Pront Door Set 0	0	Align Home Otaple Induct Otaple Induct Align Home 0 Punch Punch Align Home 0 Punch Pos. 1 0 Padelle Home 0 Punch Pos. 0 0 Padelle Home 0 Punch Pos. 0 0 Exit R Home 0 Punch Soraps 0 Empty(Finisher) 0 Middle Guide 0 Staple Staple Home(CD) 0 Staple Empty
Finisher Back Fwd END		Finisher Back END
Saddle Haveling Guide Exit(Saddle) 0 Saddle Empty 0 Saddle Empty 0 Saddle Reset 0 Saddle Meset 0 Saddle Meset 0 Saddle Meset 0 Saddle Meset 0 Saddle Meset 0 Staplate Mome 1 Staplate Home 2 Staplate Home 2 Staplate Empty 2 Staple Empty 2 Staple Empty 2 Staple Meset 0 Staple Me	0	Mail Bins 3rd Mail Bin Paper Passage 0 (Mail Bins) 2rd Mail Bin Paper Passage 0 Part Mail Bin 0 Hail Bin Denpty 0 Empty 0 Full Mail Bin 0 Jond Mail Bin 0 Full Mail Bin 0 Pard Mail Bin 0 Pard Mail Bin 0
	-	4040F3E549

11.9.3 I/O Check List

A. Printer (Main Unit, PC-102, PC-202, PC-402)

Symbol		Panel Display	Part/Signal Name	Operation Characteris- tics/ Panel Display		
				1	0	
PC1		Timing Roller	Synchronizing Roller Sensor	Paper present	Paper not present	
PC4		Exit	Paper Exit Sensor	Paper present	Paper not present	
PC2		2nd Paper Feed	Vertical Conveyance Sensor	Paper present	Paper not present	
PC117-PF		3rd Paper Feed	Tray3 Vertical Conveyance Sensor	Paper present	Paper not present	
PC126-PF		4th Paper Feed	Tray4 Vertical Conveyance Sensor	Paper present	Paper not present	
-	1	Bypass Tray	Manual Bypass Tray Set signal	Not set	Set	
PC18		Paper Empty	Bypass Paper Empty Sensor	Paper not present	Paper present	
PC19		FD Size 1	Bypass FD Paper Size Sensor/1	Paper present	Paper not present	
PC20	(Duple)	FD Size 2	Bypass FD Paper Size Sensor/2	Paper present	Paper not present	
PC21	sypass/	FD Size 3	Bypass FD Paper Size Sensor/3	Paper present	Paper not present	
PC22	ш	FD Size 4	Bypass FD Paper Size Sensor/4	Paper present	Paper not present	
PC29		Bypass Tray Pick Up	Bypass Lift Sensor	Unblocked	Blocked	
PC24		Duplex Paper Passage 1	Duplex Unit Upper Transport Sensor	Paper present	Paper not present	
PC25		Duplex Paper Passage 2	Duplex Unit Lower Transport Sensor	Paper present	Paper not present	
PC26		Reverse	Switch Back Unit Sensor	Paper present	Paper not present	
-		Duplex Set	Duplex Unit Set signal	Out of position	Set	
PC23	1	Duplex Cover	Duplex Unit Door Sensor	Open	Close	
VR1		Bypass Paper Width Detect	Bypass Paper Size Detection Unit	Analo	g value	

Symbol	Symbol Panel Display		Part/Signal Name	Operation Characteris- tics/ Panel Display	
			_	1	0
PC7		Tray Set	Tray1 Set Sensor	Set	Out of position
PC8		Paper Near Empty	Tray1 Paper Near-Empty Sensor	Unblocked	Blocked
PC9		Paper Empty	Tray1 Paper Empty Sensor	Paper not present	Paper present
PC6		Upper Side Detect	Tray1 Paper Lift Sensor	At upper limit	Not at upper limit
PC11	y 1	CD Size 1	Tray1 CD Paper Size Sensor 1	Maximum value	Not at max- imum value
PC10	Tra	CD Size 2	Tray1 CD Paper Size Sensor 2	Maximum value	Not at max- imum value
		FD Size 1		Maximum value	Not at max- imum value
		FD Size 2		Maximum value	Not at max- imum value
PWB-II		FD Size 3	rd raper Size Board I	Maximum value	Not at max- imum value
		FD Size 4		Maximum value	Not at max- imum value
PC13		Tray Set	Tray2 Set Sensor	Set	Out of position
PC14		Paper Near Empty	Tray2 Paper Near-Empty Sensor	Unblocked	Blocked
PC15		Paper Empty	Tray2 Paper Empty Sensor	Paper not present	Paper present
PC12		Upper Side Detect	Tray2 Paper Lift Sensor	At upper limit	Not at upper limit
PC17		CD Size 1	Tray2 CD Paper Size Sensor 1	Maximum value	Not at max- imum value
PC16	Tray 2	CD Size 2	Tray2 CD Paper Size Sensor 2	Maximum value	Not at max- imum value
		FD Size 1		Maximum value	Not at max- imum value
		FD Size 2		Maximum value	Not at max- imum value
PVVB-I2		FD Size 3	PD Paper Size Board 2	Maximum value	Not at max- imum value
		FD Size 4		Maximum value	Not at max- imum value
PC3		2nd Take-up	Right Lower Door Sensor	Out of position	Set

				Operation	Characteria
Symbol	ol Panel Display		Part/Signal Name	tics/ Panel Display	
				1	0
PC112-PF		Tray Set	Tray3 Set Sensor	Set	Out of position
PC113-PF		Paper Near Empty	Tray3 Paper Near-Empty Sensor	Unblocked	Blocked
PC115-PF		Paper Empty	Tray3 Paper Empty Sensor	Paper not present	Paper present
PC114-PF		Upper Side Detect	Tray3 Lift Sensor	At upper limit	Not at upper limit
PC118-PF		CD Size 1	Tray3 CD Paper Size Sensor 1	Maximum value	Not at max- imum value
PC119-PF	ay 3	CD Size 2	Tray3 CD Paper Size Sensor 2	Maximum value	Not at max- imum value
	1	FD Size 1		Maximum value	Not at max- imum value
		FD Size 2	Trav& ED Paper Size Detection Reard	Maximum value	Not at max- imum value
		FD Size 3	Iray3 FD Paper Size Detection Board	Maximum value	Not at max- imum value
		FD Size 4		Maximum value	Not at max- imum value
PC111-PF	1	Take-up Lower	Door Sensor	Open	Close
PC116-PF		Pickup	Tray3 Paper Take-Up Sensor	Paper present	Paper not present
PC121-PF		Tray Set	Tray4 Set Sensor	Set	Out of position
PC122-PF		Paper Near Empty	Tray4 Paper Near-Empty Sensor	Unblocked	Blocked
PC124-PF		Paper Empty	Tray4 Paper Empty Sensor	Paper not present	Paper present
PC123-PF		Upper Side Detect	Tray4 Lift Sensor	At upper limit	Not at upper limit
PC127-PF		CD Size 1	Tray4 CD Paper Size Sensor 1	Maximum value	Not at max- imum value
PC128-PF	Tray 4	CD Size 2	Tray4 CD Paper Size Sensor 2	Maximum value	Not at max- imum value
		FD Size 1		Maximum value	Not at max- imum value
PWB-14 PF		FD Size 2	Trav4 FD Paper Size Detection Board	Maximum value	Not at max- imum value
		FD Size 3	Hay4 FU Paper Size Detection Board	Maximum value	Not at max- imum value
		FD Size 4		Maximum value	Not at max- imum value
PC125-PF		Pickup	Tray4 Paper Take-Up Sensor	Maximum value	Not at max- imum value

Symbol		Panel Display	Part/Signal Name	Operation Characteris- tics/ Panel Display		
				1	0	
SW2	'er	Side Cover	Right Side Door Interlock Switch 1	Out of position	Set	
PC5	de Cov	Front Cover	Front Door Sensor	Out of position	Set	
SW4	Toner/Si	Sub Hopper Empty	Sub Hopper Empty Switch	Toner not lo 0 alternately Toner loade played	aded: 1 and / displayed. d: 0 dis-	
M1		Main Motor	Main Motor	When turning	When stopped	
M2		I/U Motor	IU Motor	When turning	When stopped	
M9	Detect	Polygon Motor	Polygon Motor	When turning	When stopped	
M4	Motor [Cooling Fan (Power Supply)	Power Supply Cooling Fan Motor	When turning	When stopped	
M5	Drive I	Cooling Fan	Cooling Fan Motor	When turning	When stopped	
M6		IU Cooling Fan	IU Cooling Fan Motor	When turning	When stopped	
M11		Toner Suction Fan (Ventilation)	Toner Suction Fan Motor	When turning	When stopped	

Symbol		Panel Display	Part/Signal Name	Operation (tics/ Pan-	Operation Characteris- tics/ Panel Display		
				1	0		
PC2-LCT		Vertical Transport	Vertical Conveyance Sensor	Paper present	Paper not present		
PC1-LCT		Feed	Paper Feed Sensor	Paper present	Paper not present		
PC9-LCT		Shift Tray Paper Empty	Shift Tray Paper Empty Sensor	Paper present	Paper not present		
PC3-LCT		Main Tray Paper Empty	Upper Paper Empty Sensor	Paper present	Paper not present		
PWB-E LCT		Paper Empty	Paper Empty Board	Paper present	Paper not present		
PC7-LCT		Lower Overrun	Lower Limit Sensor	Malfunc- tion	Operational		
UN1-LCT	L	Manual Button Down	Paper Descent Key	ON	OFF		
PC6-LCT	Ľ	Tray Open	Tray Set Sensor	Open	Close		
PC4-LCT		Raised (Lift-Up)	Tray Upper Limit Sensor	At upper limit	Not at upper limit		
PC13-LCT		Lowered (Lift up)	Tray Lower Position Sensor	At lower limit	Not at lower limit		
PC12-LCT		Home (Shift)	Shifter Home Position Sensor	At home	Out of home		
PC11-LCT		Shift Tray Stop Position	Shifter Return Position Sensor	At stop position	Not at stop position		
PC10-LCT		Elev. Mtr Pulse	Elevator Motor Pulse Sensor	Blocked	Unblocked		
PC8-LCT		Shift Mtr Pulse	Shift Motor Pulse Sensor	Blocked	Unblocked		
PC14-LCT		Dividing Position	Shift Gate Home Position Sensor	At home	Out of home		
PC5-LCT		Right Door Open	Right Lower Door Sensor	Open	Close		
TH1		Fusing Thermistor 1	Fusing Roller Thermistor	Analog	g value		
TH2	gine	Fusing Thermistor 2	Fusing Roller Sub Thermistor	Analog	g value		
UN2		ATDC Sensor	ATDC Sensor	Analog	g value		
TH4	ш	Drum Thermistor	Drum Thermistor	Analog	g value		
тнз		Temperature	Temperature/humidity Sensor	Analog	g value		
1115		Humidity		Analog value			
		I/C Discrimination	I/C Type Detection signal	Analog	g value		

B. Scanner

Symbol	Panel Display		Part/Signal Name	Operation Characteris- tics/ Panel Display	
				1	0
PC208	er	Scanner (HP)	Scanner Home Sensor	At home	Out of home
SW201	ann	Size reset S	Size Reset Switch	Lowered	Raised
PC209	Š	Orig. cover detecting S	Original Cover Angle Sensor	Less than 15°	15° or more

C. Job Tray

Symbol		Panel Display	Part/Signal Name	Operation Characteris- tics/ Panel Display	
				1	0
PC1-JOB	ay	Upper Tray Full	Paper Full Detection Sensor	Blocked	Unblocked
—	h Tn	Turn Over Unit	Switch Back Unit Set signal	Set	Not set
_	٥ſ	Job Tray	Job Tray Set signal	Set	Not set

D. Sheet-through-ADF (2-sided)

Symbol		Panel Display	Part/Signal Name	Operation Characteris- tics/ Panel Display	
				1	0
PC5-ADF		Empty	Empty Sensor	Paper present	Paper not present
PC9-ADF		Registration	Registration Sensor	Paper present	Paper not present
PC8-ADF		Before Scanning	Original Detection Sensor	Paper present	Paper not present
PC10-ADF		Exit and Turn Over	Exit/Turnover Sensor	Paper present	Paper not present
PC1-ADF	-sided)	Orig. Length 1	FD Paper Size Detection Sensor 1	Paper present	Paper not present
PC2-ADF	F (2	Orig. Length 2	FD Paper Size Detection Sensor 2	Blocked	Unblocked
PC3-ADF	gh-ADI	Orig. Length 3	FD Paper Size Detection Sensor 3	Paper present	Paper not present
PC4-ADF	t-throu	Orig. Length 4	FD Paper Size Detection Sensor 4	Paper present	Paper not present
PC6-ADF	shee	Behind Separator	Separator Sensor	Blocked	Unblocked
	0)	Org. Width Detect 0		Paper present	Paper not present
PWB-SIZE		Org. Width Detect 1	Mix Document Size Detection Board	Paper present	Paper not present
		Org. Width Detect 2		Paper present	Paper not present
PC7-ADF		Side Cover	Upper Door Open/Close Sensor	Open	Close
PBA-VR		Orig. Width Vol.	Variable Resistor	Analog	g value

E. Finisher

Symbol		Panel Display	Part/Signal Name	Operation Characteris- tics/ Panel Display		
				1	0	
PC5-FN		Paper Passage (Middle)	Transport Sensor	Paper present	Paper not present	
PC4-FN		Paper Passage (Feed in)	Entrance Sensor	Paper present	Paper not present	
PC3-FN		Elevate Tray Upper/Lowered	Elevator Tray Home Position Sensor	At upper limit	Not at upper limit	
S2-FN		Shutter Status	Shutter Detection Switch	Close	Open	
S1-FN		Front Door Set	Front Cover Detection Switch	Close	Open	
PC2-PK		Punch Pulse	Punch Motor Pulse Sensor	Blocked	Unblocked	
PC14-FN		Lower (Elev.)	Elevator Tray Lower Limit Sensor	Blocked	Unblocked	
PC15-FN		Surface (Elev.)	Top Face Detection Sensor	Blocked	Unblocked	
_		Optional Tray (Elevate)	_	Set	Not set	
PC3-FN		Elevate Tray position	Elevator Tray Home Position Sensor	Blocked	Unblocked	
PC6-FN	isher	Align Home 1	Alignment Home Position Sensor 1	At home	Out of home	
PC7-FN	Ē	Align Home 2	Alignment Home Position Sensor 2	At home	Out of home	
PC16-FN		Home (Shutter)	Shutter Home Position Sensor	At home	Out of home	
PC11-FN		Paddle home (Exit)	Exit Paddle Home Position Sensor	At home	Out of home	
PC12-FN		Exit R Home	Exit Roller Home Position Sensor	At home	Out of home	
PC8-FN		Empty (Finisher)	Storage Tray Detecting Sensor	Paper present	Paper not present	
PC10-FN		Staple Home (CD)	Staple Home Position Sensor	Blocked	Unblocked	
		Self Priming	Self-Priming Sensor	Blocked	Unblocked	
—	1	Staple Empty	Staple Empty Detection Sensor	Blocked	Unblocked	
—	1	Staple Home	Staple Home Position Sensor	Blocked	Unblocked	
PC3-PK	1	Punch Pos. 1	Punch Positioning Sensor 1	Unblocked	Blocked	
PC4-PK	1	Punch Pos. 2	Punch Positioning Sensor 2	Unblocked	Blocked	

Symbol		Panel Display	Part/Signal Name	Operation Characteris- tics/ Panel Display	
				1	0
PC1-PK		Punch Scraps Full Detect	Punch Trash Full	Blocked	Unblocked
PC22-SK		Home (Paper Hold R)	Crease Roller Home Position Sensor	Blocked	Unblocked
S4-FN		Middle Guide	Transport Jam Detection Switch	Close	Open
PC20-SK		Exit (Saddle)	Saddle Exit Sensor	Paper present	Paper not present
PC21-SK		Saddle Empty	Saddle Tray Empty Sensor	Paper present	Paper not present
S4-SK		Saddle Reset	Saddle Interlock Switch	Open	Close
_		Staple Home 1 (Saddle)	Staple Home Position Sensor 1	Blocked	Unblocked
_		Self Priming 1 (Saddle)	Self-Priming Sensor 1	Blocked	Unblocked
_		Staple Empty 1 (Saddle)	Staple Empty Detection Sensor 1	Blocked	Unblocked
_		Staple Home 2 (Saddle)	Staple Home Position Sensor 2	Blocked	Unblocked
_		Self Priming 2 (Saddle)	Self-Priming Sensor 2	Blocked	Unblocked
_	isher	Staple Empty 2 (Saddle)	Staple Empty Detection Sensor 2	Blocked	Unblocked
PC23-SK	Fin	Home (Saddle In & Out Guide)	In & Out Guide Home Sensor	Blocked	Unblocked
PC26-SK		Layable Guide Home (Saddle)	Layable Guide Home Sensor	Blocked	Unblocked
PC10-MK		Paper Passage 1 (Mail Bins)	Lower Transport Sensor	Paper present	Paper not present
PC9-MK		Paper Passage 2 (Mail Bins)	Upper Transport Sensor	Paper present	Paper not present
PC11-MK		Mail Bin Door	Cover Open/Close Sensor	Open	Close
PC1-MK		1st Mail Bin Empty	Paper Detection Sensor 1	Paper not present	Paper present
PC5-MK		1st Mail Bin Full	Paper Full Detection Sensor 1	Blocked	Unblocked
PC2-MK		2nd Mail Bin Empty	Paper Detection Sensor 2	Paper not present	Paper present
PC6-MK		2nd Mail Bin Full	Paper Full Detection Sensor 2	Blocked	Unblocked
PC3-MK		3rd Mail Bin Empty	Paper Detection Sensor 3	Paper not present	Paper present
PC7-MK		3rd Mail Bin Full	Paper Full Detection Sensor 3	Blocked	Unblocked
PC4-MK		4th Mail Bin Empty	Paper Detection Sensor 4	Paper not present	Paper present
PC8-MK		4th Mail Bin Full	Paper Full Detection Sensor 4	Blocked	Unblocked

11.10 Settings in the Operation Check

11.10.1 ADF

A. Paper Passage

Functions	To let the document loaded in the ADF be fed through under the specified mode.	
Use	1-sided No DetectDouble-Sided	
Setting/ Procedure	 From the Tech. Rep. Mode screen, touch [Operation Check] → [ADF] → [Paper Passage] in that order. Select the mode. Load the document in the ADF and press the Start key. When the Start key is then pressed, the paper passage operation is temporarily halted. Pressing the Stop key brings the paper passage operation to an immediate stop. The operation is stopped as soon as all pages of the document have been fed through. 	

B. ADF Sensor Adjust

Functions	To carry out automatic adjustments of the ADF sensor.	
Use		
Setting/ Procedure	 From the Tech. Rep. Mode screen, touch [Operation Check] → [ADF] → [ADF Sensor Adjust] in that order. Press the Start key to begins the automatic adjustment of the sensors. 	

C. Backup Data Initialization

Functions	Resets the settings specified with Sensor Auto Adjust	
Use	resets the settings specified with Sensor Auto Aujust.	
Setting/ Procedure	 From the Tech. Rep. Mode screen, touch [Operation Check] → [ADF] → [Backup Da Initialization] in that order. Select [Yes] and touch [Enter] to initialize the backup data. 	

11.10.2 Exp. Lamp Check

Functions	To check the intensity of the Exposure Lamp in the Image Reading Section
Use	- To check the intensity of the Exposure Early III the intage reading Section.
Setting/ Procedure	 From the Tech. Rep. Mode screen, touch [Operation Check] → [Exp. Lamp Check] in that order.

11.10.3 Scanner

Functions	To check the operation of the Scanner.	
Use	Turns on the Exposure Lamp.Moves the Scanner.	
Setting/ Procedure	1. From the Tech. Rep. Mode screen, touch [Operation Check] \rightarrow [Scanner] in that order. 2. Use the Keypad to type in the amount to move, and then touch [Set].	

11.11 CS Remote Care

11.11.1 Outlines

- CS Remote Care enables the machine and the computer at CS Remote Care center to exchange data through telephone line or E-Mail in order to control the machine.
- CS Remote Care enables the machine to call the computer at the center when trouble occurs. It also enables the computer at the center to contact the machine for the necessary data.
- Data which CS Remote Care handles can be divided into the following groups.
 - a. Data which show the status of use of the machine such as Total count, PM count.
 - b. Data which show the abnormal situation on the machine such as where and how often errors occur.
 - c. Data on adjustment
 - d. Data on setting

11.11.2 Setting Up the CS Remote Care

NOTE

- For resetting up the machine which CS Remote Care has already been set up, clear the RAM for CS Remote Care before resetting.
- For clearing the RAM, see 187 Page.
- When using the telephone line for connection, use the recommended modem. (For recommended modem, contact responsible person of KONICA MINOLTA.)

Stop	Procedure			
Step	Using the telephone line modem	Using E-mail		
0	Register the device ID to the application at CS Remote Care Center. The initial connection is not available unless the device ID is registered.			
1	Connecting the modem Turn the power for the modem OFF. Connect the machine and the modem with a modem cable. Connect the modem and the wall jack with a modular cable. * For connecting the modular cable, see the manual for the modem.	Be sure to remove the telephone line modem when e-mail is used.		
2	Clearing the RAM 1. Select [Tech. Rep. Mode] → [CS Remove Care], and touch [Detail Setting]. 2. Touch [RAM Clear]. 3. Select [Yes], and touch [END]. ☞ 187			
3	Selecting the CS Remote Care function Select [Tech. Rep. Mode] \rightarrow [CS Remove Care] \rightarrow [System Input], and touch [Modem].	Selecting the CS Remote Care function Select [Tech. Rep. Mode] \rightarrow [CS Remove Care] \rightarrow [System Input], and touch [E-Mail].		
4	Inputting the ID Code 1. Select [Tech. Rep. Mode] → [CS Remote Care] → [ID Code]. 2. Input the seven digits ID of the service person, and touch [ID Code] again. 7 186			
5	titing the date and time for CS Remote Care Select [Tech. Rep. Mode] → [CS Remote Care], and touch [Detail Setting]. Touch [Date & Time Setting]. Input the date, time and the time zone using the 10-Key Pad, and touch [Job Start]. 187			

Adjustment / Setting
11. Tech. Rep. Mode

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Step	Proce	edure
otop	Using the telephone line modem	Using E-mail
6	 Setting the Center ID and telephone number of the Center 1. Select [Tech. Rep. Mode] → [CS Remote Care], and touch [Detail Setting]. 2. Touch [Basic] → [Center ID], and input the Center ID (five digits). 186 3. Touch [Center Phone No]. 4. Input the telephone number of the Center using the 10-Keys Pad and [P], [T], [W], [-] keys. 186	 Setting the Center ID Select [Tech. Rep. Mode] → [CS Remote Care], and touch [Detail Setting]. Touch [Basic] → [Center ID], and input the Center ID (five digits). 186
7	 Setting the Device ID 3. Touch [[Fwd] → [Device ID], and input Device ID (nine digits). ✓ 186 	 Setting the Device ID 4. Touch [Device ID], and input Device ID (nine digits). 7 186
8	 Inputting the Device telephone number 5. Touch [Device Phone No]. 6. Input the Device telephone number using the 10-Key Pad and [P], [T], [W], [-] keys. 186 	 Setting the Respond Timeout 1. Select [Tech. Rep. Mode] → [CS Remote Care], and touch [Detail Setting]. 2. Touch [Respond Timeout] and enter the response timeout using the 10-Key Pad. NOTE Under normal conditions, there is no need to change the default setting. ✓ 187
9	 Inputting the AT command for initializing the modem Select [Tech. Rep. Mode] → [CS Remote Care] → and touch [Detail Setting]. Touch [AT Command]. Input AT Command. NOTE Change this Command only when it is necessary. (They do not need to be changed in normal condition.) For details on AT Command, see the manual for the modem. 188 	 Setting the E-mail address 1. Select [Tech. Rep. Mode] → [CS Remote Care] → and touch [Server Setting]. 2. Touch [Initial data]. 3. Select [Yes] and touch [Enter] to perform initialization. 4. Touch [Server for RX] and set POP3 Server Address, POP3 User Name, POP3 Password, and POP3 Port Number. * 188 5. Touch [RX Settings] and set E-Mail Address, Auto-RX Check, Connection Timeout, and APOP Authentication. * 188 6. Touch [TX Settings] and set SMTP Server Address, SMTP Port Number, Connection Timeout, and APOP Authentication. * 189 7. Touch [TX/RX Test] and press the Start key to carry out the transmission/reception test. Make sure that data is correctly transmitted and received and then proceed to the next step. If the test fails, make checks again by following the instructions given as the error message; then, carry out the transmission/ reception test once again. * 190

Stop	Proce	edure
Step	Using the telephone line modem	Using E-mail
10	Setting the DIPSW for CS Remote Care NOTE • This setting is not normally necessary. Take this step only when necessary in a specific connecting condition.	To step 11
11	 Executing the initial transmission 1. Select [Tech. Rep. Mode] → [CS Remote Care], and touch [Detail Setting]. 2. Touch [initial transmission] on the right bottom of the screen to start initial transmission. 3. When the machine is properly connected with the Center, CS Remote Care setting screen will be displayed. NOTE The initial transmission key at the right bottom of the screen will be displayed only when the Center ID, the Device ID, Telephone number of the Center and the Device telephone number have been input. ✓ 186 	 Executing initial connection mail reception The initial connection mail reception is performed from the Center side to the e-mail address of the local machine. NOTE If a CS Remote Care-related screen is open during reception of the initial connection mail from the center, the data being set up is discarded and the CS Remote Care setting screen appears. For the initial connection mail transmission procedure, see the CS Remote Care center manual. Transmission and reception of e-mail is possible only between the center and the machine which are initially connected. The initial connection is made from the center, at which time the center mail address is stored in the machine. After the initial registration has been completed, the center mail address which is accessed as follows: Tech. Rep. Mode → [CS Remote Care] → [Detail Setting] → [Basic] → E-Mail address.

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11.11.3 Software SW setting for CS Remote Care

NOTE

• In case you changed bit data by accident, be sure to restore the previous state.

A. Input procedure

- Select [Tech. Rep. Mode] → [CS Remote Care] → [Detail Setting], and touch [Software Switch Setting].
- 2. Touch [Mode Selection], and input the SW number (two digits) using the 10-Key Pad.
- Touch [Bit Selection], and select SW bit number using the arrow keys, and input 0 or 1 using the 10-Key Pad. (For setting by hexadecimal numbers, touch [HEX Selection], and input using the 10-Key Pad or A to F keys.)
- 4. Touch [Enter].

NOTE

 About functions of each switch, see to "B. List of software SW for CS Remote Care."

B. List of software SW for CS Remote Care

NOTE

• Do not change any bit not described on this table.

SW No.	Bit	Functions	0	1	Default
SW 01	0	Dial Mode	Pulse	Tone	1
	1	Reservation	—	_	0
	2	Reservation	—	_	0
	3	Reservation	—	_	0
	4	Baud rate	*1	*1	0
	5		*1	*1	0
	6		*1	*1	0
	7		*1	*1	1
SW 02	0	Emergency transmission	Do not call	Call	1
	1	Date specified transmission	Do not call	Call	1
	2	Reservation	—	_	0
	3	Reservation	—	_	0
	4	Reservation	—	-	0
	5	Auto call on the IC Life	Do not call	Call	1
	6	Reservation	Do not call	Call	1
	7	Reservation	—	-	0
SW 03	0	Reservation	—	-	0
	1	Auto call on the toner empty	Do not call	Call	1
	2	Reservation	—	-	0
	3	Reservation	Do not call	Call	1
	4 to 7	Reservation	—	_	0
SW 04	0 to 7	Reservation	—	—	0

SW No.	Bit	Functions	0	1	Default
SW 05	0	Modem redial interval	*2	*2	1
	1		*2	*2	1
	2		*2	*2	0
	3		*2	*2	0
	4 to 7	Reservation	—		0
SW 06	0	Modem redial times	*3	*3	0
	1		*3	*3	1
	2		*3	*3	0
	3		*3	*3	1
	4		*3	*3	0
	5		*3	*3	0
	6		*3	*3	0
	7	Reservation	—	_	0
SW 07	0	Redial for response time out	Do not redial	Redial	1
	1 to 7	Reserved	_	_	0
SW 08	0	Retransmission interval on E-Mail deliv-	*4	*4	0
	1	ery error	*4	*4	1
	2		*4	*4	1
	3		*4	*4	0
	4 to 7	Reservation	—		0
SW 09	0	Retransmission times on E-Mail	*5	*5	0
	1	delivery error	*5	*5	1
	2		*5	*5	0
	3		*5	*5	1
	4		*5	*5	0
	5		*5	*5	0
	6		*5	*5	0
	7	Reservation	—	_	0
SW 10	0 to 7	Reservation	—	_	0
SW 11	0	Timer 1	*6	*6	0
	1	RING reception \rightarrow CONNECT	*6	*6	0
	2	reception	*6	*6	0
	3		*6	*6	0
	4		*6	*6	0
	5		*6	*6	1
	6		*6	*6	0
	7		*6	*6	0

SW No.	Bit	Functions	0	1	Default
SW 12	0	Timer 2	*7	*7	0
	1	Dial request completed \rightarrow CONNECT	*7	*7	0
	2	reception	*7	*7	0
	3		*7	*7	0
	4		*7	*7	0
	5		*7	*7	0
	6		*7	*7	1
	7		*7	*7	0
SW 13	0 to 7	Reservation	—	_	0
SW 14	0	Timer 4	*8	*8	0
	1	Line connection \rightarrow Start request	*8	*8	0
	2		*8	*8	0
	3		*8	*8	0
	4		*8	*8	0
	5		*8	*8	1
	6		*8	*8	0
	7		*8	*8	0
SW 15	0	Timer 5	*9	*9	0
	1	Wait time for other side's response	*9	*9	1
	2		*9	*9	1
	3		*9	*9	1
	4		*9	*9	1
	5		*9	*9	0
	6		*9	*9	0
	7		*9	*9	0
SW 16	0 to 7	Reservation	_	_	0
SW 17	0 to 7	Reservation	_	_	0
SW 18	0	Attention display To set weather to give the alarm display when using the modem but the power for the modem is OFF.	Do not call	Call	1
	1 to 7	Reservation	_	_	0
SW 19 to SW 40	0 to 7	Reservation	_	_	0

*1: Baud rate

Mode	01-7	01-6	01-5	01-4
"9600 bps"	0	1	1	0
19200 bps	0	1	1	1
38400 bps	1	0	0	0

*2: Modem redial interval

Mode	05-3	05-2	05-1	05-0
1 minute	0	0	0	1
2 minutes	0	0	1	0
"3 minutes"	0	0	1	1
4 minutes	0	1	0	0
5 minutes	0	1	0	1
6 minutes	0	1	1	0
7 minutes	0	1	1	1
8 minutes	1	0	0	0
9 minutes	1	0	0	1
10 minutes	1	0	1	0

*3: Modem redial times

Mode	06-6	06-5	06-4	06-3	06-2	06-1	06-0
0 to 9 times	000 0000 to 000 1001						
"10 times"	0	0	0	1	0	1	0
11 to 99 times	000 1011 to 110 0011						

*4: Retransmission interval on E-Mail delivery error

Mode	08-3	08-2	08-1	08-0
0 minute	0	0	0	0
10 minutes	0	0	0	1
20 minutes	0	0	1	0
30 minutes	0	0	1	1
40 minutes	0	1	0	0
50 minutes	0	1	0	1
"60 minutes"	0	1	1	0
70 minutes	0	1	1	1
80 minutes	1	0	0	0
90 minutes	1	0	0	1
100 minutes	1	0	1	0
110 minutes	1	0	1	1
120 minutes	1	1	0	0

*5: Retransmission times on E-Mail delivery error

Mode	09-6	09-5	09-4	09-3	09-2	09-1	09-0
0 to 9 times	000 0000 to 000 1001						
"10 times"	0	0	0	1	0	1	0
11 to 99 times	000 1011 to 110 0011						

*6: Timer 1 (RING reception \rightarrow CONNECT reception)

Mode	11-7	11-6	11-5	11-4	11-3	11-2	11-1	11-0
0 to 31 sec	0000 0000 to 0001 1111							
"32 sec"	0	0	1	0	0	0	0	0
33 to 255 sec	0010 0001 to 1111 1111							

*7: Timer 2 (Dial request completed \rightarrow CONNECT reception)

Mode	12-7	12-6	12-5	12-4	12-3	12-2	12-1	12-0
0 to 63 sec 0000 0000 to 0011 111		111						
"64 sec"	0	1	0	0	0	0	0	0
65 to 255 sec	0100 0001 to 1111 1111							

*8: Timer 4 (Line connection \rightarrow Start request telegram delivery)

Mode	14-7	14-6	14-5	14-4	14-3	14-2	14-1	14-0
0 to 31 (x 100 msec)	0000 0000 to 0001 1111							
"32 (x 100 msec)"	0	0	1	0	0	0	0	0
33 to 255 (x 100 msec)	0010 0001 to 1111 1111							

*9: Timer 5 (Wait time for other side's response)

Mode	15-7	15-6	15-5	15-4	15-3	15-2	15-1	15-0
0 to 29 sec	0000 0000 to 0001 1101							
"30 sec"	0	0	0	1	1	1	1	0
31 to 255 sec	0001 1111 to 1111 1111							

11.11.4 Setup confirmation

- Follow the steps below to make sure that CS Remote Care has been properly set up.
- 1. Call the Tech. Rep. Mode to the screen.
- 2. Touch [CS Remote Care].
- 3. Make sure that either [E-Mail] or [Modem], whichever has been selected, is displayed on the screen.

11.11.5 Calling the Maintenance

 When CE starts maintenance, inputting the ID code of CE (seven digits: numbers which CE can identify. They are controlled by the distributor.) will transmit the information to the Center side and tells that the maintenance has started. When the maintenance is finished, touching [Maintenance is completed.] key will transmit the information to the Center and tells that it is finished.

A. When starting the Maintenance

- 1. Select Tech. Rep. Mode and touch [CS Remote Care].
- 2. Touch [ID Code], and input ID Code.
- 3. Touch [ID Coke].

* The Start key blinks while maintenance is being carried out.

B. When finishing the Maintenance

- 1. Select Tech. Rep. Mode and touch [CS Remote Care].
- 2. Touch [Maintenance is completed.]

11.11.6 Calling the Center from the Administrator

- When the CS Remote Care setup is complete, the administrator can call the CS Remote Care center.
- From the setting menu, touch the keys in this order: [Admin. Management] → [Admin.
 1] → [Call Remote Center].
- 2. Touch [Call Remote Center].
- Press the Start key. When the setup is not complete or another transmission is being carried out, the Admin. transmission key will not be displayed, and the transmission is not available.

NOTE

• For transmitting data of the machine by calling the center on the specified date and time, refer to the manual for CS Remote Care Center.

11.11.7 Checking the transmission log

- The transmission log list will be output to be checked.
- 1. Select [Tech. Rep. Mode] → [CS Remote Care], and touch [Detail setting].
- 2. Touch [Communication Log Print].
- 3. Load Tray 1 or Bypass tray with A4R paper.
- When the Basic screen reappears after the Tech. Rep. mode has been exited, an output of the communication log is produced.

Adjustment / Setting

11.11.8 Detail on settings

A. System Input

Functions	To select the system type for remote diagnosis.		
Use	Use to newly build or change the system.		
Setting/ Procedure	 Select E-Mail or Modem. The default setting is "E-Mail". 		
	"E-Mail" Modem		

B. ID Code

Functions	To register the Service ID.
Use	 Use when registering and changing Service ID.
Setting/ Procedure	 Enter a 7-digit code from the 10-Key Pad. (0000001 to 9999999) Registration Touch [ID Code] and enter the Service ID. Touch [ID code] to register the ID. The [Detail Setting] will appear when the ID has been registered.

C. Detail Setting (1) Basic

Functions	Execute the primary setting.
Use	Use to change the set contents.Use to register the machine to the CS Remote Care Center.
Setting/ Procedure	 Call the Tech. Rep. Mode to the screen. Touch [CS Remote Care]. Touching the [Detail Setting] will display the primary setting. Primary Setting Set the Center ID, Device ID, and the phone No. When e-mail is selected for system and all setup procedures are completed, E-mail address of the Center is displayed. * When entering the phone No, 10-Keys and keys on the screen have following meanings. [-] Pose : Waits to start transmitting after dialing [W] Wait : Detects the dial tone of the other end [T] Tone dial : Carry out pulse dialing [P] Pulse dial : Carry out pulse dialing [*],[#] : To be used as necessary
	 Touching the Initial Transmission key will sent the information to the CS Remote Care Center to register the machine. (Only when the Modem is selected on the system Input.)

(2) Date & Time Setting

Functions	To set the data and time-of-day
Use	 Use to set or change the date and time-of-day.
Setting/ Procedure	 Call the Tech. Rep. Mode to the screen. Touch [CS Remote Care]. Touch [Detail Setting] to access Date & Time Setting. Enter the date (month, day and year), time-of-day, and the time zone from the 10-Key Pad. Touch [Job Start] to start the clock.

(3) RAM Clear

Functions	To clear the following data at the Center ID Code, Primary Setting, Date/Time Inp Command.	ut (Time Zone), Software SW Setting and AT
Use	 To be used for setting CS Remote Care. To be used for reset the every data of the NOTE If RAM Clear is selected during trans implemented at the time the transmiss is done properly or not. 	e Center to default. mission, RAM clear processing will be sion is completed regardless of whether it
Setting/ Procedure	The default setting is "NO" YES	"NO"

(4) Communication Log Print

Functions	To print out the Communication Log.
Use	Use to output and use the Communication Log.
Setting/ Procedure	 Call the Tech. Rep. Mode to the screen. Touch [CS Remote Care]. Touch [Detail Setting] to access Communication Log Print. Load Tray 1 or Bypass Tray with A4R or 81/2 x 11 paper. When the Basic screen reappears after the Tech. Rep. mode has been exited, an output of the communication log is produced.

(5) Software Switch Setting

Functions	To change the CS Remote Care settings.
Use	 To change the settings for CS Remote Care as necessary.
Setting/ Procedure	For procedures on settings, see 180.

(6) Respond Timeout

Functions	 To set retry intervals for an e-mail transmission error. This setting can be made only when [E-Mail] is selected in System Input.
Use	 To change the retry intervals for an e-mail transmission error.
Setting/	The default setting is "30 min."
Procedure	10 to 1440 min.

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(7) AT Command

Functions	 To set the command to be issued at the time of Modem Initialization. This setting is available only when [Modem] is selected for the system setting.
Use	 To set the command to be issued at the time of Modem Initialization.
Setting/ Procedure	Enter the command and touch [Enter] to register.

D. Server Setting

• Server Setting can be set only when [E-Mail] is selected in System Input.

(1) Server for RX

<POP3 Server Address>

Functions	 To set the POP3 server address used for CS Remote Care.
Use	 To set the address of the POP3 server. The POP3 server address can be set as an IP address or domain name.
Setting/ Procedure	<ip address=""> IP address Version 4 format [0 to 255]. [0 to 255]. [0 to 255]. [0 to 255] <fqdn> Enter the domain name. </fqdn></ip>

<POP3 User Name>

Functions	 To set the logon name for the POP3 server used for CS Remote Care.
Use	 To set the logon name for the POP3 server.
Setting/ Procedure	Up to 63 characters (alphanumeric characters and symbols) can be used.

<POP3 Password>

Functions	 To set the logon password for the POP3 server used for CS Remote Care.
Use	 To set the logon password for the POP3 server.
Setting/ Procedure	Up to 15 characters (alphanumeric characters and symbols) can be used.

<POP3 Port Number>

Functions	 To set the POP3 port number used for CS Remote Care.
Use	 To set the port number for the POP3 server.
Setting/ Procedure	The default setting is "110"
	"110" (1 to 65535)

(2) RX Settings

<E-Mail Address>

Functions	To set the e-mail address used for CS Remote Care.
Use	 To set the e-mail address.
Setting/ Procedure	Up to 129 characters (alphanumeric characters and symbols) can be used.

Adjustment / Setting

<Auto-RX Check>

Functions	 To set whether or not to use Auto-RX Check and the time interval for the POP3 server used for CS Remote Care.
Use	To select not to use Auto-RX Check.To change the time interval for Auto-RX Check.
Setting/ Procedure	The default setting is "OFF" "OFF" (1 to 120)

<Connection Timeout>

Functions	To set the timeout period for connection during reception.
Use	 To change the timeout period for connection during reception.
Setting/ Procedure	The default setting is "60 sec"
	"60 sec" (30 to 300)

<APOP Authentication>

Functions	To set whether or not to enable APOP authentication during reception.	
Use	To enable APOP authentication during reception.	
Setting/ Procedure	The default setting is "OFF"	
	ON	"OFF"

(3) TX Settings

<SMTP Server Address>

Functions	 To set the SMTP server address for transmission used for CS Remote Care.
Use	 To set the address of the SMTP Server. The SMTP server address can be set as an IP address or domain name.
Setting/ Procedure	<ip address=""> IP address Version 4 format [0 to 255]. [0 to 255]. [0 to 255]. [0 to 255] <fqdn> Enter the domain name. </fqdn></ip>

<SMTP Port Number>

Functions	To set the SMTP port number for transmission used for CS Remote Care.
Use	 To set the port number of the SMTP Server.
Setting/ Procedure	The default setting is "25"
	"25" (1 to 65535)

<Connection Timeout>

Functions	To set the timeout period for transmission.
Use	 To change the timeout period for connection during transmission.
Setting/ Procedure	The default setting is "60 sec"
	"60 sec" (30 to 300)

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<Authentication Setting>

Functions	To set whether or not to enable authentication during transmission via the SMTP server.	
Use	 Use to enable authentication during transmission. Types of authentication to be set: POP Before SMTP, SMTP authentication 	
Setting/ Procedure	 The default setting is "OFF" ON "OFF" If POP Before SMTP is set, make the setting for POP Before SMTP. The default setting is "60 sec" "60 sec" (0 to 60) If SMTP authentication is set, make the following settings. User ID: Enter the user ID for SMTP authentication. Password: Enter the password for SMTP authentication. 	

(4) TX/RX Test

Functions	To carry out the transmission/reception tests for CS Remote Care.
Use	 To carry out the transmission/reception tests for CS Remote Care.
Setting/ Procedure	Press the Start key to start transmission.The test progress and results are displayed on the screen.

(5) Initial data

Functions	To initialize server settings.
Use	To initialize server settings.
Setting/	The default setting is "NO"
Procedure	YES "NO"

11.11.9 List of the CS Remote Care error code

A. For telephone line modem

Error code	Error	Solution
0001	The line is busy (Busy detection)	 Transmit again manually.
0002	Failure of the Modem default setting at transmit- ting (When the transmission completes with modem initial setting failed)	 Check if the power of the modem is ON. Check the connecting condition between the modem and the main unit.
0003	Timeout of CONNECT at transmitting (No response to ATD)	 Transmit again manually Check if the power of the modem is ON. Check the connecting condition between the modem and the main unit.
0004	Timeout of Incoming request response (No response to incoming (starting) request MSG)	Contact responsible person of KONICA MINOLTA.
0005	Timeout of CONNECT at receiving (No response to ATA)	 Check if the power of the modem is ON. Check the connecting condition between the modem and the main unit.
0006	Shut down of the data modem line (Host) (Carrier OFF is detected)	• No solution, because the line is shut down at the host side.
0007	Shut down of the data modem line (Main unit) (Line is shut down forcibly due to event)	Contact responsible person of KONICA MINOLTA.
0008	Timeout of start request telegram delivery (Start request telegram is not delivered after line connection)	Transmit again manually.
0009	Timeout of finish request telegram delivery (Finish request telegram is not delivered (Start of shut down).)	Transmit again manually.
000A	Receiving rejection (Receiving is made when the main unit is set to reject receiving.)	 Check the setting condition of the host side. Check the setting condition of the main unit side.
000B	RS232C Driver Over Run (When the modem detects Over Run.)	• If the same error is detected several times, turn the modem power OFF and ON.
000C	If the same error is detected several times, turn the modem power OFF and ON.	• If the same error is detected several times, turn the modem power OFF and ON.
000D	Break Interrupt (BI) Indicator (When the modem detects Break Interrupt (BI) Indicator.)	• If the same error is detected several times, turn the modem power OFF and ON.
000E	Receiving RING Buffer Full (When the Receiving RING Buffer is full.)	Contact responsible person of KONICA MINOLTA.
000F	Transmitting RING Buffer Full (When the Transmitting RING Buffer is full.)	Contact responsible person of KONICA MINOLTA.

Error code	Error	Solution
0010	RX FIF0 ERROR (when Read / Write error occurs at RX FIF0)	Contact responsible person of KONICA MINOLTA.
0011	Baud Rate ERROR (When selected Baud Rate is out of the specifica- tion (9600 bps to 38400 bps).)	 Check the Baud rate of the software DipSW.
0012	TX FIF0 Level Error (When the threshold of the selected TX FIF0 is not error value (1, 3, 9, 13).)	 Contact responsible person of KONICA MINOLTA.
0013	RX FIF0 Level Error (When the threshold of the selected RX FIF0 is not error value (0, 4, 8, 14).)	Contact responsible person of KONICA MINOLTA.
0014	Receiving Data Over Error (When the data whose size exceeds the transmit- ting RING buffer is requested.)	Contact responsible person of KONICA MINOLTA.
0015	Status Error (During modem operation is being confirmed)	Contact responsible person of KONICA MINOLTA.
0016	Status Error (During receiving)	Contact responsible person of KONICA MINOLTA.
0017	Status Error (During line is being shut down)	Contact responsible person of KONICA MINOLTA.
0018	Machine ID has already been registered (Request telegram 2 (SET-UP) comes from the main unit that has already registered Machine ID.)	 Set the initial registrations again for all including the host side.
0019	Center ID Error (Center ID of the host is not identical with the one of start request telegram.)	 Check Center ID setting of the main unit side. Check Center ID setting of the main unit side.
001A	Device ID inconsistency (Device ID of the host is not identical with the one of start request telegram.)	 Check Device ID setting of the main unit side. Check the setting of the host side.
001B	Device ID Unregistered (Request telegram 2 (Constant data transmitting, Emergency call) comes from the main unit that has not registered Machine ID yet.)	 Check Device ID setting of the main unit side. Check the setting of the host side.
001C	Grammar Error (Received response telegram is unregulated for- mat.)	Contact responsible person of KONICA MINOLTA.
001D	Impossible to change (Unchangeable items) (Host requests to change the setting of items which are not allowed to change.)	Contact responsible person of KONICA MINOLTA.
001E	Impossible to change (During printing) (Setting cannot be changed because the setting change is made during the machine is printing or starts printing.)	 Try again when the machine is not printing.
001F	Impossible to change (Unread items) (The host tries to make writing on the items the current value has not been read.)	 Contact responsible person of KONICA MINOLTA.

Error code	Error	Solution
0020	Timeout of Telegram Delivery (At waiting mode of telegram delivery the machine fails to receive the telegram in a given time.)	 Try communication again.
0021	Telegram Size Over (The machine receives the telegram whose size exceeds the specification.)	Contact responsible person of KONICA MINOLTA.
0022	Transmitting Phase Response NG (Transmitting phase response MSG is not appro- priate.)	Contact responsible person of KONICA MINOLTA.
0023	Timeout of Transmitting Phase Response MSG (Transmitting phase response MSG is timeout.)	Contact responsible person of KONICA MINOLTA.
0024	Event Data Acquisition Function Error (Although the transmitting phase response MSG is OK, the function for Data acquisition shows "No event,".)	Contact responsible person of KONICA MINOLTA.
0025	Timeout of Driver transmitting check MSG (Transmitting check MSG from the driver task is timeout.)	Contact responsible person of KONICA MINOLTA.
0026	Detection of Internal Contradiction (Unknown event is detected. Condition value is not correct or so on.)	Contact responsible person of KONICA MINOLTA.
0027	Transmission / Receiving collision (Receiving is detecting during transmitting pro- cessing)	 Try communication again.

B. For e-mail

Error code	Error	Solution
0001	Connection timeout during transmission	Check SMTP server on the user side.
0***	Failure in transmission ***: SMTP response code (hexadecimal form)	Check SMTP server on the user side.
0003	Connection timeout during reception	 Check POP3 server on the user side.
0005	Failure in reception	 Check POP3 server on the user side.
1030	Machine ID mismatch (Mail with a machine ID different from that of the local machine has been received.)	Check machine ID setting.Check machine ID setting on the host side.
1050	Grammatical error (Mail with undefined CS Remote Care command portion (2 digits) has been received.)	_
1061	Rewrite disabled (Mail requesting rewriting for data item that is dis- abled for setting change has been received from the host.)	_
1062	Rewrite disabled during copy cycle (To return rewrite disabled during copy cycle to the host)	Have the host send another rewrite request mail.

Error code	Error	Solution
1080	Data length error (LEN value of TEXT data does not coincide with actual data length.)	—
1081	Frame number error (Last frame not received) (Some digits of frame number missing)	Check the host side for machine registration status.
1082	Subject Type error (Code with Subject Type undefined has been received.)	_
1084	Validity period exceeded (Validity period of data rewrite command is exceeded.)	 Have the host send another rewrite request mail.
1091	Command size over (Attached file that exceeds the size of the recep- tion buffer the copier is equipped with has been received.)	_
1092	Faulty mail has been received when the machine is yet to be registered.	 Check the host side for machine registration status.
2039	Socket is not connected (LAN cable on the server side is loose.)	 Check the SMTP server and POP3 server on the user side.
203C	Connection timeout	
203E	Network is down (LAN cable on the copier side is loose.)	 Check the network connector for connection to the copier on the user side. Check the network environ- ment on the user side.
3000	POP3_AUTHORIZATION_ERR	 Check the POP3 server envi- ronment on the user side.
3001	POP3_TRANSACTION_ERR	 Check the POP3 server envi- ronment on the user side.
3002	POP3_CONNECT_ERR	 Check the POP3 server envi- ronment on the user side.
3003	POP3_TIMEOUT_ERR	 Check the POP3 server envi- ronment on the user side.
3004	POP3_FORMAT_ERR	Check the POP3 server envi- ronment on the user side.
3005	POP3_MEMORY_ERR	 Check the POP3 server envi- ronment on the user side.
3006	POP3_JOBID_ERR	 Check the POP3 server envi- ronment on the user side.
3007	POP3_NO_DATA_ERR	Check the POP3 server envi- ronment on the user side.
3008	POP3_DELETE_FAIL_ERR	Check the POP3 server envi- ronment on the user side.
3009	POP3_MAILBOX_FULL	Check the POP3 server envi- ronment on the user side.
4103	Not ready (MIO) (An attempt is made to send or receive mail when e-mail reception is not ready yet after power has been turned ON.)	 Wait for some while and then retry.

Error code	Error	Solution
4104	SMTP channel not ready	 Wait for some while and then retry.
4105	POP3 channel not ready	 Wait for some while and then retry.
4106	Not ready in conditions other than above	 Wait for some while and then retry.
5***	MIO has detected an error while transmission of attached file is being processed. ***: Error code detected by MIO	_
6***	MIO has detected an error during main transmis- sion sequence. ***: Error code detected by MIO	_

11.11.10 Troubleshooting for CS Remote Care

If communication is not done properly during use of the modem, check the condition by following the procedures shown below.

Shift the screen in the order of [Tech. Rep. Mode] → [CS Remote Care] → [Detail Setting].

At this time, in the cases of initial transmission / Call Remote Center / Maintenance Start transmitting / Maintenance is completed., the communication result will be displayed at the top of the screen.

* For the communication result, the following message will be displayed based on its success or failure.

Display of Communication result	Cause	Solution
Communicating		
Communication trouble with the Center	Although the machine tries to com- municate with the Center, there is any trouble and the communica- tion completes unsuccessfully.	 See the list of error message and confirm the corresponding point. 261
Complete successfully	—	—
Modem trouble	Although the machine tries to com- municate with the Center, there is any trouble in the modem.	 Check if the Power of modem in ON. Check if there is any problem in connection between the modem and the main unit.
Busy line	Although the machine tries to com- municate with the Center, the line to the Center is busy.	Communicate with the Center again.
No response	Although the machine tries to com- municate with the Center, there is no response from the Center.	 Communicate with the Center again. Check the communication environment of the Center side.

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11.12 ROM Version

Functions	To check the ROM version.
Use	 To check the ROM version when firmware is upgraded. To check the ROM version when the board is replaced with a new one.
Setting/ Procedure	 Touch [ROM Version] from the Tech. Rep. mode. MSC: MFBS Printer: PWB-A ADF: PWB-A AF LCT: PWB-C1 LCT Finisher: PWB-A FN If the option is not installed, [None] appears.

11.13 Level History

Functions	 To display the various level histories. 	
Use	 Used for troubleshooting of image problems. 	
Setting/ Procedure	 Touch [Level History] from the Tech. Rep. mode. ATDC Set: Displays the voltage set with the automatic ATDC sensor adjustment. ATDC Current: Displays the T/C ratio for the ATDC sensor. Vg Current: Displays the current value of the grid voltage. Vb Current: Displays the current value of the developing bias voltage. 	

12. Counters

12.1 Counters Function Setting Procedure

12.1.1 Procedure

- 1. Call the Tech. Rep. Mode to the screen.
- 2. Press the following keys in this order. Stop \rightarrow 9
- 3. Select a function.

г

12.1.2 Exiting

• Press the Reset Key.

12.2 Counters Function Tree

Tech. Rep. Mode

Counters	- Total Counter
	Large Size Counter
	Copy Kit Counter
	Copy Kit
	Plug-In Counter
	Key Counter
	Vendoer Mode

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12.3 Settings in the Counters

12.3.1 Total Counter

Functions Use	To set the counting method for the Total Counter.							
Sotting/	The default setting is "Mode 1". "Mode 1". Mode 2. Mode 2.							
Procedure	Mode 1 Mode 2 Mode 3 Mode 3 Mode 3 Mode 3 Mode 3 Mode 3 Mode 3							

12.3.2 Large Size Counter

Functions	To set the counting method for the Size Counter						
Use	· To set the counting method for the size counter.						
Settina/	The default setting is "A3/11x17".						
Procedure	No Count A3/11x17 A3/B4/11x17/Legal A3/11x17/B4/11x14/Foolscape/Legal						

<Count Table for the Total Counter and Size Counter>

Copy Mode			For 1-sided copies						For 2-sided copies				
ing	Large Size Counter	Non-standard size		Standard size			Non-standard size			Standard size			
Sett	Total Countar	Mode		Mode Mode			Mode			Mode			
	Iotal Counter	1	2	3	1	2	3	1	2	3	1	2	3
	Total Counter	1		1	2	2		2		2	4	4	
t	Large Size Counter	0		1	1	2		0		2	2	0	
uno	2-Sided Total Counter	0			0		1	1	2	1	1	4	
0	Total by Account	1		1	2	2		2		2	4	4	
	Large Size by Account		0		1	1	2	0		2	2	0	

12.3.3 Copy Kit Counter

Functions	To select whether to enable or disable the Copy Kit Counter.							
Use								
	The default setting is "Mode 1".							
Setting/	"Mode 1" Mode 2 Mode 3							
Procedure	 Mode 1: The Copy Kit Counter is disabled. Mode 2: Copying continues even after the set value is reached. Mode 3: Copying is prohibited after the set value is reached. 							

12.3.4 Copy Kit

Functions	To enter a value for the Copy Kit Counter
Use	
	 When the current value reaches the set value, the following appears.
O attine of	 Mode 2: The icon A appears in the Additional Message Display.
Procedure	Mode 3: The maintenance call reminder "M4" appears and copying is prohibited.
	 Press the Clear key to clear the set value. Use the Keypad to type in the set value.

12.3.5 Plug-In Counter

Functions	To solect the counting method					
Use	- To select the counting method.					
	The default setting is "No. of Prints".					
Setting/	"No. of Prints" Copy Cycle					
Flocedule	No. of Prints: The count increments according to the number of pages that is outputted.Copy Cycle: The count increments according to the number of copies.					

<Count Table for the Plug-In Counter>

	Copy Mode For 1-sided copies			For 2-sided copies									
ing	Large Size Counter	Non-standard size		Standard size		Non-standard size			Standard size				
Sett	Total Counter	Mode		Mode		Mode			Mode				
	Total Counter		2	3	1	2	3	1	2	3	1	2	3
ount	With "No. of Prints" selected	1		1	2	2	1	2	2	1	4	4	
с	With "Copy Cycle" selected		1		1	2	2		2		2	4	4

12.3.6 Key Counter

Functions	To solact whether to enable or disable the Key Counter					
Use	to select whether to enable or disable the Key Counter.					
	The default setting is "OFF".					
Setting/ Procedure	Yes "OFF"					
	 If the Key Counter is installed, select "Yes". 					

12.3.7 Vendor Mode

Functions	 When the Key Counter, Coin Vendor or Data Controller is installed, select the appropri- ate option. 					
Use	To select the mounted option.					
Setting/	The default setting is "OFF".					
Procedure	"OFF"	Coin	Card			

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13. Service Security Mode

13.1 Service Security Mode Function Setting Procedure

13.1.1 Procedure

- 1. Call the Tech. Rep. Mode to the screen.
- 2. Press the following keys in this order. Stop $\rightarrow 0 \rightarrow$ Clear Key
- 3. Select a function.

Service Security Mode	
Service Code Change	
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13.1.2 Exiting

· Press the Reset Key.

13.2 Service Security Mode Function Tree

Tech. Rep. Mode		
Service Securuty	Mode	Service Code Change

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13.3 Settings in the Service Security Mode

13.3.1 Service Code Change

Functions	 To change the service code used to access the Tech. Rep. mode, Initial mode, and Maintenance mode.
Setting/ Procedure	 Call the Service Security mode from the Tech. Rep. mode and then touch [Service Code Change]. Touch [Current Code] and enter the currently set 8-digit service code. Touch [New Code] and enter a new 8-digit service code. Touch [Retype New Code] and enter the new 8-digit service code once again. The "#" and "*" keys may be used in combination with the 10-Key Pad for entry of the service code.

14. Adjust Mode

14.1 Adjust Mode Function Setting Procedure

14.1.1 Procedure

- 1. Call the Tech. Rep. Mode to the screen.
- 2. Press the following keys in this order. Stop \rightarrow Start Key
- 3. Select a function.

Adjust	END	
Printer	Scanner	

14.1.2 Exiting

• Press the Reset Key.

14.2 Adjust Mode Function Tree



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14.3 Settings in the Adjust Mode

14.3.1 Printer

A. Registration (CD)

Functions	 To vary and adjust the image start position in the main scanning direction for each paper source. 		
Use	 The PH Unit has been replaced. The image on the copy deviates in the main scan direction. A faint image occurs on the leading edge of the image. 		
Adjustment Specifica- tion	Width A on the test pattern produced should fall within the following range. Specifications: 10 mm ± 2.0 mm Setting Range: -4.0 mm to +4.0 mm (in 0.1 mm increments)		
Adjustment Instructions	If width A on the test pattern is wider than specifications. Longer than the actual scale: decrease the setting value. Shorter than the actual scale: increase the setting value.		
Setting/ Procedure	 Enter the Adjust Mode. Touch [Printer] and [Registration (CD)] in that order. Touch the [Test Print]. Select the paper source and press the Start key. Check the dimension of width A on the test pattern. If it fails to meet the specifications, change the setting and redo the check. If it meets the specifications, touch [END]. Following the same procedure, adjust for all other paper sources. 		

B. Registration (FD)

Functions	 To vary and adjust the image start position in the sub scanning direction for each paper source. 		
Use	The PH Unit has been replaced.The image on the copy deviates in the sub scan direction.		
Adjustment Specifica- tion	Width B	Width B on the test pattern produced should fall within the following range. Specifications: 11.3 mm ± 1.5 mm Setting Range: <bizhub 350=""> -19 (-6.08 mm) to +19 (+6.08 mm) (in 0.32 mm increments) <bizhub 200="" 250="" bizhub=""> -21 (-5.88 mm) to +21 (+5.88 mm) (in 0.28 mm increments)</bizhub></bizhub>	
Adjustment Instructions	If width B on the test pattern is wider than specifications. Longer than the actual scale: decrease the setting value. Shorter than the actual scale: increase the setting value.		
Setting/ Procedure	 Enter the Adjust Mode. Touch [Printer] and [Registration (FD)] in that order. Touch the [Test Print]. Select the paper source and press the Start key. Check the dimension of width B on the test pattern. If it fails to meet the specifications, change the setting and redo the check. If it meets the specifications, touch [END]. Following the same procedure, adjust for all other paper sources. 		

14.3.2 Scanner

- Use the following Test Chart for the adjustment of the Scanner Section.
- If the Test Chart is not available, a scale may be used instead.



- A: Scan image position: CD adjustment
- B: Scan image position: FD adjustment
- C: Scanner CD zoom ratio adjustment
- D: Scanner FD zoom ratio adjustment

A. Registration (CD)

Functions	 To adjust for variations in the accuracy of IR parts and their mounting accuracy by vary- ing the scan start position in the main scanning direction. 		
Use	When the Original Glass is replaced.When the CCD Unit is with a new one.		
Adjustment Specifica- tion	 A djust so that width A on the sample copy made falls within the following range. It is required that Registration (CD) of Printer be adjusted so as to meet the specifications. Specifications: 20 mm ± 1.0 mm Setting Range: -72 to +72 (1 mm = 24 dot) 		
Adjustment Instructions	If width A of the output copy falls outside the specified range and if width A is 19 mm or less: increase the setting value. if width A is 21 mm or greater: decrease the setting value.		
Setting/ Procedure	 Position the Test Chart correctly so that the original reference point is aligned with the scale. Press the Start key to make a copy. Check point A on the image of the copy. If width A on the copy falls outside the specified range, enter the Adjust mode. Touch [Scanner] → [Registration] → [CD] in that order. Press the Clear key and enter the value from the 10-Key Pad. Make adjustments until the specifications are met. 		

B. Registration (FD)

Functions	 To adjust for variations in the accuracy of IR parts and their mounting accuracy by vary- ing the scan start position in the sub scanning direction. 		
Use	When the Original Glass is replaced.When the CCD Unit is with a new one.		
Adjustment Specifica- tion	 Adjust so that width B on the sample copy made falls within the following range. It is required that Registration (FD) of Printer be adjusted so as to meet the specifications. Specifications: 20 mm ± 1.0 mm Setting Range: -24 to +72 (1 mm = 24 dot) 		
Adjustment Instructions	If width B of the output copy falls outside the specified range and if width B is 19 mm or less: decrease the setting value. if width B is 21 mm or greater: increase the setting value.		
Setting/ Procedure	 Position the Test Chart correctly so that the original reference point is aligned with the scale. Press the Start key to make a copy. Check point B on the image of the copy. If width B on the copy falls outside the specified range, enter the Adjust mode. Touch [Scanner] → [Registration] → [FD] in that order. Press the Clear key and enter the value from the 10-Key Pad. Make adjustments until the specifications are met. 		

14. Adjust Mode

C. Zoom (CD)

Functions	 To adjust the zoom ratio in the main scan direction for the Scanner Section 			
Use	When the CCD Unit is with a new one.			
Adjustment Specifica- tion	 Measure C width on the test chart and on the sample copy, and adjust the gap to be within the following specification. It is required that Registration (CD) of Printer b adjusted so as to meet the specifications. Specifications: ± 2.0 mm Setting Range: 0.990 to 1.010 (in 0.001 mm increments) 			
Adjustment Instructions	If width C on the sample copy made is wider than that on the test chart, decrease the set- ting value. If width C on the sample copy made is narrower than that on the test chart, increase the setting value.			
Setting/ Procedure	 Call the Adjust Mode to the screen. Touch [Scanner] → [Zoom] in that order. Position the test Chart correctly so that the original reference point is aligned with the scale. Touch [Test Print] to make a copy. Check the C width on the image of the copy. If width C on the sample copy made falls outside the specified range, touch CD: [Copy]. Press the Clear key and enter the value from the 10-Key Pad. Touch [Test Print] again to make a copy. Make adjustments until the specifications are met. 			

D. Zoom (FD)

Functions	 To adjust the zoom ratio in the sub scan direction for the Scanner Section 			
Use	When the CCD Unit is with a new one.			
Adjustment Specifica- tion	 Measure D width on the test chart and on the sample copy, and adjust the gap to be within the following specification. It is required that Registration (FD) of Printer be adjusted so as to meet the specifications. Specifications: ± 2.0 mm Setting Range: 0.990 to 1.010 (in 0.001 mm increments) 			
Adjustment Instructions	If width D on the sample copy made is wider than that on the test chart, decrease the set- ting value. If width D on the sample copy made is narrower than that on the test chart, increase the setting value.			
Setting/ Procedure	 Call the Adjust Mode to the screen. Touch [Scanner] → [Zoom] in that order. Position the test Chart correctly so that the original reference point is aligned with the scale. Touch [Test Print] to make a copy. Check the D width on the image of the copy. If width D on the sample copy made falls outside the specified range, touch FD: [Copy]. Press the Clear key and enter the value from the 10-Key Pad. Touch [Test Print] again to make a copy. Make adjustments until the specifications are met. 			

15. Initial Mode

15.1 Initial Mode Function Setting Procedure



- 1. Remove the Compact Flash Cover [1].
- 2. Press the Warm Restart switch [2].



- 3. When "●" appears at the center on the left-hand side of the screen, enter "3" from the 10-Key Pad.
- 4. Enter the 8-digit service code and touch [END]. (Default value: 00000000)

NOTE

- When [END] is touched after a wrong service code has been entered, the Basic screen reappears.
- At the fourth access after entries of three wrong access codes, [END] is not available on the screen. It is therefore necessary to turn OFF and ON the Main Power Switch.
- If you forget the service code, it becomes necessary to replace the RAMS Board with a new one. Take necessary steps not to forget the service code.
- The RAMS Board is not available as a replacement part. If it requires replacement, contact Office Printing Support Division by way of CSES.

5. Select a function.

15.1.1 Exiting

• Touch [Exit].

15.2 Initial Mode Function Tree

Ini	tial	Mod

/lode	- Total Clear		
	Touch Panel Adjustment		
	Marketing Area		
	Image Data Clear		
	Clear FAX Setting		
	Date/Time Setting *1		
	Trouble Reset		
	5.		

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15. Initial Mode

*1: For details, see FK-503 Service Manual.

15.3 Settings in the Initial Mode

NOTE

• Be sure to turn the main power switch OFF and ON after the Initial mode has been completed.

15.3.1 Total Clear

Functions	To clear all data.		
Use	The following settings are cleared. Fax-related setting information Bulletin board setting information Transmission/reception log information Image data Network setting information Destination information Soft switch information Management-by-account setting information User authentication setting information Account/user counter Remote maintenance setting information FW download setting information Copy setting information (zoom ratio, paper size, erase width, paper source detailed information, copy job program, bypass free size registration, etc.) CSRC setting information		
Setting/ Procedure	 Touch [Total Clear] from the Initial mode screen. Select [Yes] and touch [Enter] to start the clearing sequence. When the message indicating completion of the clearing sequence appears, touch [OK]. 		

15.3.2 Touch Panel Adjustment



15.3.3 Marketing Area

Functions	To specify the marketing region.				
Use	 When the marketing area is changed. Fixed zoom ratios shown on the screen, the default values for Total Clear, and related items are changed according to the setting. 				
Setting/ Procedure	 Touch [Marketing Area] from the Initial mode screen. Select the appropriate marketing area and touch [END]. 				
	Japan	0.8.	Europe	Others	

15.3.4 Image Data Clear

Functions	To clear all image data stored on the memory of the MFBS Board.
Use	
Setting/ Procedure	 Touch [Image Data Clear] from the Initial mode screen. Select [Yes] and touch [Enter].

15.3.5 Clear FAX Setting

Functions	To clear all fax settings.
Use	 To clear all settings of the local machine, remote machine, communication control, and soft switches.
Setting/ Procedure	For details, see FK-503 Service Manual.

15.3.6 Date/Time Setting

Functions	To specify the date and time
Use	• To specify the date and time.
Setting/ Procedure	 Touch [Date/Time Setting] from the Initial mode screen. Enter the data from the 10-Key Pad and touch [END].

15.3.7 Trouble Reset

Functions	 To clear all malfunctions, including fusing errors (C3XXX).
Use	 To reset fusing-related malfunctions. Malfunctions relating to units other than fusing can be reset by turning OFF and ON the Main Power Switch and opening and closing the side cover.
Setting/ Procedure	 Touching [Trouble Reset] on the Initial mode screen will reset the malfunctions.

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16. Mechanical adjustment

16.1 Mechanical adjustment of the scanner section

16.1.1 Scanner Position Adjustment

Make this adjustment after any of the following procedures has been performed:

After the Scanner Drive Cables have been replaced.

- When the Scanner has been removed.
- 1. Remove the IR Upper Left Cover.
- e 49
- 2. Remove the Front Holding Bracket.
- æ 49
- 3. Remove the Original Glass.
- æ 49
- 4. Remove the Exposure Unit.
- e 78





- 5. Move the Mirror Unit to the position shown on the left.
- Distance of part A from the IR left side surface: 68.5 mm

- 6. Wind the cables on the Exposure Unit.
- 7. 7. Mount the Exposure Unit at the location shown on the left.
- Distance of the right side surface of the Exposure Unit from the IR left side surface: 138 mm

16.2 Mechanical adjustment of the bypass tray section

16.2.1 Adjustment of the Bypass Paper Size Unit

This adjustment must be made in the following case:

• The Bypass Paper Size Unit has been removed.





 Install the gear so that the protrusion of the gear [1] and the mark [3] on the Bypass Guide Rack Gear [2] are aligned in a straight line.

 Install the Bypass Unit Cover so that part A (edge) [2] of the Rack Gear [1] for the Bypass Paper Size Unit and part B [3] of the Bypass Unit Cover are aligned in a straight line.


3. When the Bypass Paper Size Unit base is mounted, align the lever position of the Bypass Paper Size Unit with the tab at the center in a straight line.

- After the Bypass Paper Size Unit base has been mounted, check that the lever of the Bypass Paper Size Unit moves smoothly in a manner operatively connected to the Bypass Guide.
- 5. Select [Function] from the Tech. Rep. mode and run [FD].
- e 164

16.2.2 Manual Bypass Unit Installation Check

- 1. Remove the Rear Right Cover.
- e 50
- 2. Remove the Lower Right Rear Cover.
- e 49
- 3. Remove the Front Manual Bypass Cover.
- æ 55
- 4. Remove the Rear Manual Bypass Cover.
- e 55
- Check the Tray 2 Paper Feed Guide [1] and Manual Bypass Guide [2] for correct operation.



NOTE

- Pull open the Tray 2 Paper Fed Door in the direction of the arrow and check that it opens smoothly without binding.
- If the door binds, perform the installation procedures again for the Tray 2 Feed Roll Assy and Manual Bypass Unit.

16.2.3 Adjustment of the Manual Bypass Take-up Mechanical Clutch











- 1. Remove the Manual Bypass Unit.
- e 71
- 2. Remove the Manual Feed Tray Liftup Sensor (PC29) [1].
- Remove the screw [2] and the Manual Paper Feed Pick-up Solenoid (SL3) [3].

- Remove the C-clip [4], actuator [5], C-ring [6], and washer [7]. Then, remove the manual bypass take-up mechanical clutch [8].
- 5. Disassemble the Manual Bypass Take-up Mechanical Clutch.

6. Mount the torque limiter [10] to the gear [9].

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 Fit hook 1 of the torque limiter [11] into stopper B of the coupling [12].

8. Fit hook 2 of the torque limiter [13] in a slit in the collar [14].

9. Holding the tab [15] of the coupling, rotate the gear several turns in the direction of the arrow so that hook 2 is located at the center of portion P [17] of the coupling. If hook 2 [16] cannot be brought to the center, fit hook 1 of the torque limiter in stopper A [18] or stopper C [19] of the coupling; then turn the gear again as necessary. Bring hook 2 [16] into a point nearest the center of portion P [17].



17. Functions of switches and parts on PWBs

17.1 Test Print Switch (S1)



Symbol	Name	Description
S1	Test Print Switch	Produces the test pattern for Function F12.

17.1.1 Procedure

- 1. Remove the Upper Rear Cover.
- e 50
- 2. Remove the Rear Cover.
- e 51



- 4. Press S1 to start the feed operation.
- 5. Press S1 a second time to stop the feed operation.

3. Remove the five [1] and the Mechanical Control Board Cover [2].

17.2 Read white reference position adjustment

17.2.1 Jumper switch setting

 If fine black lines occur on the copy, adjust the position of the read white reference position of the Shading Sheet by using jumper switches.

NOTE

• NEVER make any settings other than the following for the jumper switch.



- 1. Turn OFF the Main Power Switch.
- 2. Remove the Upper Rear Cover.
- er 50
- 3. Make the appropriate settings of the jumper switches on the BCRS Board.



17.3 Sub Power Switch (SW49)



Symbol	Name	Description
SW49	Sub Power Switch	Turning OFF the Sub Power switch sets the machine in the same state as in the Sleep mode, in which the control panel gives no indication. No copy can be made with the Sub Power switch turned OFF.

17.4 Warm Restart Switch

• Used to enter the initial mode.



17.4.1 Procedure

- 1. Remove the Compact Flash Cover [1].
- 2. Press the Warm Restart switch [2].

Blank Page

Troubleshooting

18. Jam Display

18.1 Misfeed Display

• When a paper misfeed occurs, the misfeed message, misfeed location, and paper location are displayed on the Touch Panel of the machine.



Display	Misfeed Location	Misfeed Processing Location	Action
	Tray 1 take-up section	Right Lower Door	e 225
	Image Transfer section	Right Door	e 226
[1]	Fusing/Paper Exit section	Right Door	e 227
	Duplex Unit transport section	Duplex Unit Right Door	e 228
	Duplex Unit take-up section	Duplex Unit Right Door	e 229
[2]	Tray 2 take-up/Vertical Transport section	Right Lower Door	e 230
[3]	Manual Bypass take-up section	Manual Bypass Slide Board	e 231
	Tray 3 take-up section	Paper Feed Unit Right Door	e 232
[4]	Tray 4 take-up section	Paper Feed Unit Right Door	e 233
	LCT take-up section	LCT Right Door	e 234

18.1.1 Misfeed Display Resetting Procedure

• Open the corresponding door, clear the sheet of paper misfeed, and close the door.

18.2 Sensor layout

System Mounted with PC-102/PC-202 18.2.1



- Troubleshooting
- [1] Switch Back Unit Sensor PC26
- [2] Duplex Unit Upper Transport Sensor PC24 PC4
- [3] Paper Exit Sensor
- [4] Synchronizing Roller Sensor PC1
- [5] Duplex Unit Lower Transport Sensor PC25

[6]	Vertical Conveyance Sensor	PC2
[7]	Tray3 Vertical Conveyance Sensor	PC117-PF
[8]	Tray3 Paper Take-Up Sensor	PC116-PF
[9]	Tray4 Vertical Conveyance Sensor	PC126-PF
[10]	Tray4 Paper Take-Up Sensor	PC125-PF

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18.2.2 System Mounted with PC-402



PC4

PC1

- [2] Duplex Unit Upper Transport Sensor PC24
- [3] Paper Exit Sensor
- [4] Synchronizing Roller Sensor

[5]	Duplex Unit Lower Transport Sensor	PC25
[6]	Vertical Conveyance Sensor	PC2
[7]	Vertical Conveyance Sensor	PC2-LCT
[8]	Paper Feed Sensor	PC1-LCT

18.3 Solution

18.3.1 Initial Check Items

• When a paper misfeed occurs, first make checks of the following initial check items.

Check Item	Action
Does paper meet product specifications?	Change paper.
Is paper curled, wavy, or damp.	Change paper. Instruct user in correct paper storage.
Is a foreign object present along the paper path, or is the paper path deformed or worn?	Clean or change the paper path.
Are the Paper Separator Fingers dirty, deformed, or worn?	Clean or change the defective Paper Separator Finger.
Are rolls/rollers dirty, deformed, or worn?	Clean or change the defective roll/roller.
Are the Edge Guide and Trailing Edge Stop at correct position to accommodate paper?	Set as necessary.
Are actuators found operational as checked for cor- rect operation?	Correct or change the defective actuator.

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18.3.2 Misfeed at Tray 1 take-up section

A. Detection Timing

Туре	Description
Detection of misfeed at Tray 1 take-up section	The leading edge of the paper does not block the Synchronizing Roller Sensor (PC1) even after the set period of time has elapsed after the 1st Drawer Paper Feed Clutch (CL3) has been energized.
Size error detection	The Synchronizing Roller Sensor (PC1) is not unblocked even after the set period of time has elapsed after the sensor has been blocked by the paper. The Synchronizing Roller Sensor (PC1) is unblocked before the set period of time.

Relevant Electrical Parts		
Synchronizing Roller Sensor (PC1) 1st Drawer Paper Feed Clutch (CL3)	Mechanical Control Board (PWB-A)	

	Action	WIRING DIAGRAM	
Step		Control Signal	Location (Electrical Component)
1	Initial check items	-	-
2	PC1 I/O check	PWB-A PJ11A-5 (ON)	M-8
3	CL3 operation check	PWB-A PJ22A-14 (ON)	D-7
4	Change PWB-A	-	-

18.3.3 Misfeed at Image Transfer section

A. Detection Timing

Туре	Description
Detection of misfood at	The Paper Exit Sensor (PC4) is not blocked even after the set period of time has elapsed after the Synchronizing Roller Clutch (CL1) is set to OFF.
Image Transfer section	The Synchronizing Roller Sensor (PC1) is not blocked even after the set period of time has elapsed after the sensor has been unblocked by the paper.
Detection of paper left in Image Transfer section	The Synchronizing Roller Sensor (PC1) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.

Relevant Electrical Parts		
Synchronizing Roller Sensor (PC1) Paper Exit Sensor (PC4) Synchronizing Roller Clutch (CL1)	Mechanical Control Board (PWB-A)	

Step	Action	WIRING DIAGRAM	
		Control Signal	Location (Electrical Component)
1	Initial check items	-	-
2	PC1 I/O check	PWB-A PJ11A-5 (ON)	M-8
3	PC4 I/O check	PWB-A PJ18A-11 (ON)	M-12
4	CL1 operation check	PWB-A PJ11A-2 (ON)	M-9
5	Change PWB-A	-	-

18.3.4 Misfeed at Fusing/Paper Exit section

A. Detection Timing

Туре	Description
Detection of misfeed at Fusing/Paper Exit section	The Paper Exit Sensor (PC4) is not unblocked even after the set period of time has elapsed after the Synchronizing Roller Sensor (PC1) has been blocked by the paper.
	The Switch Back Unit Sensor (PC26) is not unblocked even after the set period of time has elapsed after the Paper Exit Sensor (PC4) has been unblocked by the paper.
Detection of paper left in Fusing/Paper Exit section	The Paper Exit Sensor (PC4) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.

Relevant Electrical Parts		
Synchronizing Roller Sensor (PC1) Paper Exit Sensor (PC4) Switch Back Unit Sensor (PC26)	Mechanical Control Board (PWB-A)	

		WIRING DIAGRAM	
Step Action	Action	Control Signal	Location (Electrical Component)
1	Initial check items	-	-
2	PC1 I/O check	PWB-A PJ11A-5 (ON)	M-8
3	PC4 I/O check	PWB-A PJ18A-11 (ON)	M-12
4	PC26 I/O check	PWB-A PJ19A-9 (ON)	M-5
5	Change PWB-A	-	-

18.3.5 Misfeed at Switch Back Unit/Duplex Unit transport section

A. Detection Timing

Туре	Description
	The Switch Back Unit Sensor (PC26) is not blocked even after the set period of time has elapsed after the Paper Exit Sensor (PC4) has been unblocked by the paper.
Detection of misfeed at Switch Back Unit/Duplex Unit transport section	The Duplex Unit Upper Transport Sensor (PC24) is not blocked even after the set period of time has elapsed after the Switch Back Unit Sensor (PC26) is blocked by the paper.
	The Switch Back Unit Sensor (PC26) is not blocked even after the set period of time has elapsed after the Duplex Unit Upper Transport Sensor (PC24) is blocked by the paper.
Detection of paper left in	The Switch Back Unit Sensor (PC26) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.
Unit transport section	The Duplex Unit Upper Transport Sensor (PC24) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.

Relevant Electrical Parts		
Paper Exit Sensor (PC4) Switch Back Unit Sensor (PC26) Duplex Unit Upper Transport Sensor (PC24)	Mechanical Control Board (PWB-A)	

Step		WIRING DIAGRAM	
	Action	Control Signal	Location (Electrical Component)
1	Initial check items	-	-
2	PC4 I/O check	PWB-A PJ18A-11 (ON)	M-12
3	PC26 I/O check	PWB-A PJ19A-9 (ON)	M-5
4	PC24 I/O check	PWB-A PJ20A-5 (ON)	M-16
5	PC25 I/O check	PWB-A PJ20A-8 (ON)	M-16
6	Change PWB-A	-	-

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18.3.6 Misfeed at Duplex Unit take-up section

A. Detection Timing

Туре	Description
Detection of misfeed at Duplex Unit take-up section	The Synchronizing Roller Sensor (PC1) is not blocked even after the set period of time has elapsed after the Duplex Unit Lower Transport Sensor (PC25) has been blocked by the paper.
Detection of paper left in Duplex Unit take-up section	The Duplex Unit Lower Transport Sensor (PC25) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.

Relevant Electrical Parts		
Synchronizing Roller Sensor (PC1)	Mechanical Control Board (PWB-A)	
Duplex Unit Lower Transport Sensor (PC25)		

	Step Action	WIRING DIAGRAM	
Step		Control Signal	Location (Electrical Component)
1	Initial check items	-	-
2	PC1 I/O check	PWB-A PJ11A-5 (ON)	M-8
3	PC25 I/O check	PWB-A PJ20A-8 (ON)	M-16
4	Change PWB-A	-	-

18.3.7 Misfeed at Tray 2 take-up/Vertical Transport section

A. Detection Timing

Туре	Description
Detection of misfeed at Tray 2 take-up/Vertical Transport section	The leading edge of the paper does not block the Vertical Conveyance Sen- sor (PC2) even after the set period of time has elapsed after the 2nd Drawer Paper Feed Clutch (CL4) has been energized.
	The Synchronizing Roller Sensor (PC1) is not blocked even after the set period of time has elapsed after the leading edge of the paper has blocked the Vertical Conveyance Sensor (PC2).
Detection of paper left in Tray 2 take-up/Vertical Transport section	The Vertical Conveyance Sensor (PC2) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.

Relevant Electrical Parts		
Synchronizing Roller Sensor (PC1) Vertical Conveyance Sensor (PC2) 2nd Drawer Paper Feed Clutch (CL4)	Mechanical Control Board (PWB-A)	

	Step Action	WIRING DIAGRAM	
Step		Control Signal	Location (Electrical Component)
1	Initial check items	-	-
2	PC1 I/O check	PWB-A PJ11A-5 (ON)	M-8
3	PC2 I/O check	PWB-A PJ22A-9 (ON)	D-7
4	CL4 operation check	PWB-A PJ21A-10 (ON)	D-10
5	Change PWB-A	-	-

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18.3.8 Misfeed at Manual Bypass take-up section

A. Detection Timing

Туре	Description
Detection of misfeed at	The leading edge of the paper does not block the Vertical Conveyance Sen-
Manual Bypass take-up	sor (PC2) even after the set period of time has elapsed after the Bypass
section	Paper Feed Clutch (CL5) has been energized.
Detection of paper left in	The Vertical Conveyance Sensor (PC2) is blocked when the Main Power
Manual Bypass take-up	Switch is set to ON, a door or cover is opened and closed, or a misfeed or
section	malfunction is reset.

Relevant Electrical Parts		
Vertical Conveyance Sensor (PC2) Bypass Paper Feed Clutch (CL5)	Mechanical Control Board (PWB-A)	

		WIRING DIAGRAM		
Step	Action	Control Signal	Location (Electrical Component)	
1	Initial check items	-	-	
2	PC2 I/O check	PWB-A PJ22A-9 (ON)	D-7	
3	CL5 operation check	PWB-A PJ13A-14 (ON)	M-11	
4	Change PWB-A	-	-	

18.3.9 Misfeed at Tray 3 take-up/Vertical Transport section (PC-202)

A. Detection Timing

Туре	Description	
	The leading edge of the paper does not block the Tray3 Vertical Convey- ance Sensor (PC117-PF) even after the set period of time has elapsed after the Tray3 Paper Feed Motor (M122-PF) has been energized.	
Detection of misfeed at Tray 3 take-up/Vertical Transport section	The Vertical Conveyance Sensor (PC2) is not blocked even after the set period of time has elapsed after the Tray3 Vertical Conveyance Sensor (PC117-PF) is blocked by the paper.	
	The Tray3 Vertical Conveyance Sensor (PC117-PF) is not unblocked even after the set period of time has elapsed after the Tray3 Vertical Conveyance Sensor (PC117-PF) has been blocked by the paper.	
Detection of paper left in	The Tray3 Vertical Conveyance Sensor (PC117-PF) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.	
Transport section	The Tray3 Paper Take-Up Sensor (PC116-PF) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.	

Relevant Electrical Parts			
Tray3 Paper Take-Up Sensor (PC116-PF) Tray3 Vertical Conveyance Sensor (PC117-PF) Vertical Conveyance Sensor (PC2) Tray3 Paper Feed Motor (M122-PF)	Main Control Board (PWB-C2 PF)		

Step	Action	WIRING DIAGRAM			
			Control Signal	Location (Electrical Component)	
1	Initial check items		-	-	
2	PC116-PF I/O check				
3	PC117-PF I/O check	æ	See PC-102/PC-202 Service Manual.		
4	PC2 I/O check				
5	M122-PF operation check				
6	Change PWB-C2 PF		-	-	

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18.3.10 Misfeed at Tray 4 take-up/Vertical Transport section (PC-202)

A. Detection Timing

Туре	Description
	The leading edge of the paper does not block the Tray4 Vertical Convey- ance Sensor (PC126-PF) even after the set period of time has elapsed after the Tray4 Paper Feed Motor (M123-PF) has been energized.
Detection of misfeed at Tray 4 take-up/Vertical Transport section	The Tray3 Vertical Conveyance Sensor (PC117-PF) is not blocked even after the set period of time has elapsed after the Tray4 Vertical Conveyance Sensor (PC126-PF) is blocked by the paper.
	The Tray4 Vertical Conveyance Sensor (PC126-PF) is not unblocked even after the set period of time has elapsed after the Tray4 Vertical Conveyance Sensor (PC126-PF) has been blocked by the paper.
Detection of paper left in	The Tray4 Vertical Conveyance Sensor (PC126-PF) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.
Transport section	The Tray4 Paper Take-Up Sensor (PC125-PF) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.

Relevant Electrical Parts			
Tray4 Paper Take-Up Sensor (PC125-PF) Tray4 Vertical Conveyance Sensor (PC126-PF) Tray3 Vertical Conveyance Sensor (PC117-PF) Tray4 Paper Feed Motor (M123-PF)	Main Control Board (PWB-C2 PF)		

Step		WIRING DIAGRAM		
	Action		Control Signal	Location (Electrical Component)
1	Initial check items		-	-
2	PC125-PF I/O check			
3	PC126-PF I/O check	æ	See PC-102/PC-202 Service Manual.	
4	PC117-PF I/O check			
5	M123-PF operation check	-		
6	Change PWB-C2 PF		-	-

18.3.11 Misfeed at LCT take-up/Vertical Transport section (PC-402)

A. Detection Timing

Туре	Description
	The leading edge of the paper does not block the Paper Feed Sensor (PC1-LCT) or Vertical Conveyance Sensor (PC2-LCT) even after the set period of time has elapsed after the Paper Feed Motor (M1-LCT) has been energized.
Detection of misfeed at LCT take-up/Vertical	The Vertical Conveyance Sensor (PC2) is not blocked even after the set period of time has elapsed after the Vertical Conveyance Sensor (PC2-LCT) is blocked by the paper.
Transport section	The Paper Feed Sensor (PC1-LCT) is not unblocked even after the set period of time has elapsed after the Paper Feed Sensor (PC1-LCT) has been blocked by the paper.
	The Vertical Conveyance Sensor (PC2-LCT) is not unblocked even after the set period of time has elapsed after the Vertical Conveyance Sensor (PC2-LCT) has been blocked by the paper.
Detection of paper left in LCT take-up/Vertical Transport section	The Vertical Conveyance Sensor (PC2-LCT) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a mis- feed or malfunction is reset.
	The Paper Feed Sensor (PC1-LCT) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.

Relevant Electrical Parts			
Paper Feed Sensor (PC1-LCT)	Main Control Board (PWB-C1 LCT)		
Vertical Conveyance Sensor (PC2-LCT)			
Vertical Conveyance Sensor (PC2)			
Paper Feed Motor (M1-LCT)			

Step	Action	WIRING DIAGRAM		
		Control Signal	Location (Electrical Component)	
1	Initial check items	-	-	
2	PC1-LCT I/O check	· · ·		
3	PC2-LCT I/O check	See PC-402 Service Manual.		
4	PC2 I/O check			
5	M1-LCT operation check			
6	Change PWB-C1 LCT	-	-	

19. Malfunction code

19.1 Trouble code

 The machine's CPU performs a self-diagnostics function that, on detecting a malfunction, gives the corresponding malfunction code and maintenance call mark on the Touch Panel.



19.1.1 Trouble code list

• For the details of the malfunction codes of the options, see the Service Manual for the corresponding option.

Code	Item	Description	
C0001	LCT Communication Failure	See PC-402 Service Manual.	
C0202	Tray 1 Elevator Failure	 The Lift-Up Sensor is not unblocked even after the set period of time has elapsed after the paper lift up operation for the drawer has begun. 	
C0204	Tray 2 Elevator Failure		
C0206	Tray 3 Elevator Failure		
C0208	Tray 4 Elevator Failure		В
C0209	LCT Elevator Motor Failure	🧟 Sao DC 402 Satuiga Manual	В
C0210	LCT Lift Failure		В
C0211	Bypass Lifting Motion Failure	 The Bypass Lift Sensor (PC29) is not blocked or unblocked even after the set period of time has elapsed after the Bypass Pick-Up Solenoid (SL3) is energized after the manual feed paper take-up operation has begun. 	
C0212	LCT Ejection Failure	🧟 See DC 402 Service Manual	
C0213	LCT Shift Gate Malfunction		
C0214	LCT Shifting Failure		В
C0215	LCT Shift Motor Malfunction	1	
C0701	Manual Paper Size Detection Adjustment Failure	The control value of the Manual Paper Size Detection Unit does not fall within the specified range when an adjustment is made of manual paper size detection.	В
C1080	Exit Option Communication Failure	• The connection status of a finishing option is changed after the copier has been turned on.	В

Code	Item	Description	Rank
C1183	Elevator Motor Ascent/Descent Drive Failure		В
C1190	Aligning Plate 1 Drive Failure		В
C1191	Aligning Plate 2 Drive Failure		В
C11A0	Paper-Lifter Drive Failure		В
C11A1	Exit Roller Pressure/Retraction Failure		в
C11A2	Saddle Exit Roller Pressure/ Retraction Failure		В
C11A3	Shutter Drive Failure		В
C11A4	Saddle Exit Motor Failure	See FS-508 or SD-502 Service Manual.	В
C11A5	Saddle In & Out Guide Motor Failure		В
C11A6	Saddle Layable Guide Motor Drive Failure		В
C11B0	Staple Unit CD Drive Failure		В
C11B2	Staple Drive Failure		В
C11B5	Saddle Staple 1 Drive Failure		В
C11B6	Saddle Staple 2 Drive Failure		В
C11C0	Punch Cam Motor Unit Failure		В
C11D0	Crease Motor Drive Failure		В
C2211	IU Motor Failure	 The IU Motor Lock signal remains set to H for a set period of time while the IU Motor is turning. The IU Motor Lock signal remains set to L for a set period of time while the IU Motor remains stopped. 	В
C2351	Toner Suction Fan Motor Failure	 The Toner Suction Fan Motor Lock signal remains set to H for a set period of time while the Toner Suction Fan Motor is turning. The Toner Suction Fan Motor Lock signal remains set to L for a set period of time while the Toner Suction Fan Motor remains stopped. 	С
C2431	IU Fuse Blowing Failure (*1)	 The fuse is not blown even after the lapse of a predetermined period of time. 	В
C2557	ATDC Sensor Failure	 The scanning value of the ATDC Sensor is less than 7 % while the IU Motor is turning. The scanning value of the ATDC Sensor is more than 19 % while the IU Motor is turning. 	В
C255C	ATDC Adjustment Failure	 The adjustment of the ATDC control voltage could not be completed in the set period of time when function F8 is run. The ATDC control voltage was not within the range of 5.39 V to 8.15 V when function F8 is run. 	в
C2654	EEPROM Failure	 An EEPROM where no initial data is written is detected. 	В
C2702	Abnormal Image Transfer Voltage	 The image transfer voltage exceeds 100 V for the set period of time while the IU Motor remains stopped. 	В

Code	Item	Description	
C3451	Fusing Warm-Up Failure (Main)	 The Fusing Roller Thermistor does not detect the required temperature within 30 sec. after a warmup cycle has begun; therefore, the copier does not complete the warm-up cycle. The temperature of the Fusing Rollers does not reach the required level even after the set period of time has elapsed during a warm-up cycle. 	A
C3452	Fusing Warm-Up Failure (Sub)	 The Fusing Roller Sub Thermistor does not detect the required temperature within 30 sec. after a warm-up cycle has begun; therefore, the copier does not complete the warm-up cycle. The temperature of the Fusing Rollers does not reach the required level even after the set period of time has elapsed during a warm-up cycle. 	A
C3751	High Fuser Temperature Failure (Main)	The Fusing Roller Thermistor and Fusing Roller Sub Thermistor are detected to be at a tempera- ture above 300 °C when the Main David Suitch	А
C3752	High Fuser Temperature Failure (Sub)	is set to ON.	А
C3851	Low Fuser Temperature Failure (Main)	The Fusing Roller Thermistor and Fusing Roller Sub Thermistor are detected to be at a tempera- ture below 405 00 during standburg	А
C3852	Low Fuser Temperature Failure (Sub)	 The Fusing Roller Thermistor and Fusing Roller Sub Thermistor are detected to be at a tempera- ture below 105 °C during printing. 	A
C4001	Main Unit Communication Failure	Communications with the Mechanical Control Board and the MFBS Board fail.	В
C4002	HSYNC Detection Failure	 No SOS falling edges are detected within the set period of time after laser emission began while the Polygon Motor is turning. No SOS falling edges are detected while VIA remains ON. 	В
C4101	Polygon Motor Failure	 The Polygon Motor Lock signal could not be detected within the set period of time after the Polygon Motor is energized. (Faulty start detection) No First Lock signals are detected during the 1-second period that starts 1 second after a First Lock signal. (Faulty lock signal detection) The Polygon Motor Lock signal could not be detected after the set period of time has elapsed while the Polygon Motor Lock signal is set to ON for longer than the set period of time while the Polygon Motor Lock signal is set to ON for longer than the set period of time while the Polygon Motor remains stopped. (Abnormal lock detection) Communications with the gate array for expan- 	В
C4721	Main Unit G/A Communication Failure	sion I/O (the IC mounted on the Mechanical Con- trol Board) fail.	В
C5102	Main Motor Failure	 The Transport Motor Lock signal remains set to H for a set period of time while the Transport Motor is turning. 	В

Code	Item	Description	Rank
C5351	Power Supply Cooling Fan Motor Failure	 The Power Supply Cooling Fan Motor Lock signal remains set to H for a set period of time while the Power Supply Cooling Fan Motor is turning. The Power Supply Cooling Fan Motor Lock signal remains set to L for a set period of time while the Power Supply Cooling Fan Motor remains stopped. 	В
C5352	Cooling Fan Motor Failure	 The Cooling Fan Motor Lock signal remains set to H for a set period of time while the Cooling Fan Motor is turning. The Cooling Fan Motor Lock signal remains set to L for a set period of time while the Cooling Fan Motor remains stopped. 	
C5353	IU Cooling Fan Motor Failure	 The IU Cooling Fan Motor Lock signal remains set to H for a set period of time while the IU Cool- ing Fan Motor is turning. The IU Cooling Fan Motor Lock signal remains set to L for a set period of time while the IU Cool- ing Fan Motor remains stopped. 	
C8301	EDH Fan Motor Failure	See DF-605 Service Manual.	С
CA052	MIO Device Failure	The MIO device does not operate properly.	С
CC153	Flash ROM Failure	• The Flash ROM data was determined to be faulty when the unit was turned on.	В
CC155	Exit Option Flash ROM Failure	See FS-508 Service Manual.	В

*1: Not supported by this machine

19.2 How to reset

- Different malfunction resetting procedures apply depending on the rank of the trouble code.
- * List of Malfunction Resetting Procedures

Trouble Code Rank	Resetting Procedures
Rank A	 Trouble Reset For details, see Adjustment/Setting.
Rank B	 Opening/Closing the front door
Rank C	 Turn OFF the Main Power Switch, wait for 10 sec. or more, and turn ON the Main Power Switch.

19.3 Solution

- 19.3.1 C0202: Tray 1 Elevator Failure
- 19.3.2 C0204: Tray 2 Elevator Failure
- 19.3.3 C0206: Tray 3 Elevator Failure
- 19.3.4 C0208: Tray 4 Elevator Failure

Relevant Electrical Parts		
Tray1 Paper Lift Motor (M7)	Mechanical Control Board (PWB-A)	
Tray2 Paper Lift Motor (M8)	Power Supply Unit (PU1)	
Tray3 Lift Motor (M124-PF)	Main Control Board (PWB-C2 PF)	
Tray4 Lift Motor (M125-PF)		
Tray1 Paper Lift Sensor (PC6)		
Tray2 Paper Lift Sensor (PC12)		
Tray3 Lift Sensor (PC114-PF)		
Tray4 Lift Sensor (PC123-PF)		

		WIRING DIAGRAM	
Step	Action	Control Signal	Location (Electrical Component)
1	Check the motor and sensor connectors for proper connection, and correct as necessary.	-	-
2	Check the connector of each motor for proper drive coupling, and correct as necessary.	-	-
3	Check the PU1 connector for proper connection and correct as necessary.	-	-
4	PC6 I/O check	PWB-A PJ15A-11 (ON)	D-17
5	PC12 I/O check	PWB-A PJ22A-6 (ON)	D-6
6	PC114-PF I/O check	See PC-102/PC-202 \$	Service
7	PC123-PF I/O check	Manual.	
8	M7 operation check	-	D-23
9	M8 operation check	-	D-19
10	M124-PF operation check	See PC-102/PC-202 \$	Service
11	M125-PF operation check	Manual.	
12	Change PWB-A	-	-
13	Change PWB-C2 PF	-	-
14	Change PU1	-	-

19.3.5 C0211: Bypass Lifting Motion Failure

Relevant Electrical Parts	
Bypass Pick-Up Solenoid (SL3)	Mechanical Control Board (PWB-A)
Bypass Lift Sensor (PC29)	Power Supply Unit (PU1)

		WIRING DIAGRAM	
Step	Action	Control Signal	Location (Electrical Component)
1	Check the SL3 connector for proper connection and correct as necessary.	-	-
2	Check cam position.	-	-
3	PC29 I/O check	PWB-A PJ12A-11 (ON)	M-14
4	SL3 operation check	PWB-A PJ12A-5 (ON)	M-13
5	Change PWB-A	-	-

19.3.6 C0701: Manual Paper Size Detection Adjustment Failure

Relevant Electrical Parts		
Bypass Paper Size Detection Unit (VR1)	Mechanical Control Board (PWB-A)	

		WIRING DIAGRAM	
Step	Action	Control Signal	Location (Electrical Component)
1	Check the VR1 connector for proper connection and correct as necessary.	-	-
2	Readjust the VR1.	-	-
3	Replace VR1	-	-
4	Change PWB-A	-	-

19.3.7 C1080: Exit Option Communication Failure

Relevant Electrical Parts	
Main Control Board (PWB-A FN)	Mechanical Control Board (PWB-A)

	Step Action	WIRING DIAGRAM	
Step		Control Signal	Location (Electrical Component)
1	Turn OFF the Main Power Switch, wait for 10 sec. or more, and turn ON the Main Power Switch.	-	-
2	Check the PWB-A FN and the PWB-A for proper connection, and correct as necessary.	-	-
3	Change PWB-A FN	-	-
4	Change PWB-A	-	-

19.3.8 C2211: IU Motor Failure

Relevant Electrical Parts	
IU Motor (M2)	Mechanical Control Board (PWB-A) Power Supply Unit (PU1)

		WIRING DIAGRAM	
Step	Step Action	Control Signal	Location (Electrical Component)
1	Check the M2 connector for proper connection and correct as necessary.	-	-
2	Check the M2 for proper drive coupling, and correct as necessary.	-	-
3	Check the PWB-A connector for proper connection and correct as necessary.	-	-
4	M2 operation check	PWB-A PJ28A-11 (REM)	M-4
5	Change PWB-A	-	-
6	Change PU1	-	-

19.3.9 C2351: Toner Suction Fan Motor Failure

Relevant Electrical Parts	
Toner Suction Fan Motor (M11)	Mechanical Control Board (PWB-A) Power Supply Unit (PU1)

		WIRING DIAGRAM	
Step	Step Action	Control Signal	Location (Electrical Component)
1	Check the M11 connector for proper connection and correct as necessary.	-	-
2	Check the fan for possible overload, and correct as necessary.	-	-
3	Check the PWB-A connector for proper connection and correct as necessary.	-	-
4	M11 operation check	PWB-A PJ5A-13 (REM)	D-14
5	Change PWB-A	-	-
6	Change PU1	-	-

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19.3.10 C2557: ATDC Sensor Failure

19.3.11 C255C: ATDC Adjustment Failure

Relevant Electrical Parts	
ATDC Sensor (UN2)	Mechanical Control Board (PWB-A) Power Supply Unit (PU1)

		WIRING DIAGRAM	
Step	Step Action	Control Signal	Location (Electrical Component)
1	Check the UN2 connector for proper connection and correct as necessary.	-	-
2	Remove the Developing Unit from the IU, and then replace UN2.	-	-
3	Run F8.	-	-
4	Change PWB-A	-	-
5	Change PU1	-	-

19.3.12 C2654: EEPROM Failure

	Relevant Ele	ectrical Parts
Mechanical Control Board (PWB-A)		

		WIRING DIAGRAM	
Step Action	Action	Control Signal	Location (Electrical Component)
1	Disconnect and then connect the power cord. Turn OFF the Main Power Switch, wait for 10 sec. or more, and turn ON the Main Power Switch.	-	-
2	Check the EEPROM on the Mechanical Control Board for proper connection, and correct as neces- sary.	-	-
3	Change PWB-A	-	-
4	Change EEPROM	-	-

19.3.13 C2702: Abnormal Image Transfer Voltage

Relevant Electrical Parts	
Transfer Roller	High Voltage Unit (HV1)

	Action	WIRING DIAGRAM	
Step		Control Signal	Location (Electrical Component)
1	Check the installation of the Transfer Roller.	-	-
2	Change HV1	-	-

- 19.3.14 C3451: Fusing Warm-Up Failure (Main)
- 19.3.15 C3452: Fusing Warm-Up Failure (Sub)
- 19.3.16 C3751: High Fuser Temperature Failure (Main)

19.3.17 C3752: High Fuser Temperature Failure (Sub)

Relevant Electrical Parts		
Fusing Roller Heater Lamp (H1)	Mechanical Control Board (PWB-A)	
Fusing Roller Sub Heater Lamp (H2)	Power Supply Unit (PU1)	
Fusing Roller Thermistor (TH1)		
Fusing Roller Sub Thermistor (TH2)		

		WIRING DIAGRAM	
Step	Action	Control Signal	Location (Electrical Component)
1	Check that the H1 comes on when the Main Power Switch is set to ON, and correct or replace as nec- essary.	-	-
2	Check that the H2 comes on when the Main Power Switch is set to ON, and correct or replace as nec- essary.	-	-
3	Check the installation of the TH1 and the TH2, and correct or clean as necessary.	-	-
4	Check the operation of the TH1. Remove CN80 (4P), and then check that the resis- tance across CN80-2 and -3 on the Thermistor is infinity.	-	-
5	Check the operation of the TH2. Remove CN81 (4P), and then check that the resis- tance across CN81-2 and -3 on the Thermistor is infinity.	-	-
6	Check the continuity of the H1. Correct or replace as necessary.	-	-
7	Check the continuity of the H2. Correct or replace as necessary.	-	-
8	Change PU1	-	-
9	Change PWB-A	-	-

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19.3.18 C3851: Low Fuser Temperature Failure (Main)

19.3.19 C3852: Low Fuser Temperature Failure (Sub)

Relevant Electrical Parts		
Fusing Roller Heater Lamp (H1)	Mechanical Control Board (PWB-A)	
Fusing Roller Sub Heater Lamp (H2)	Power Supply Unit (PU1)	
Fusing Roller Thermistor (TH1)		
Fusing Roller Sub Thermistor (TH2)		

		WIRING DIAGRAM	
Step Action		Control Signal	Location (Electrical Component)
1	Check that the H1 comes on when the Right-Side Door is opened, then closed, and correct or replace as necessary.	-	-
2	Check that the H2 comes on when the Right-Side Door is opened, then closed, and correct or replace as necessary.	-	-
3	Check the installation of the TH1 and the TH2, and correct or clean as necessary.	-	-
4	Check the operation of the TH1. Remove CN80 (4P), and then check that the resis- tance across CN80-2 and -3 on the Thermistor is infinity.	-	-
5	Check the operation of the TH2. Remove CN81 (4P), and then check that the resis- tance across CN81-2 and -3 on the Thermistor is infinity.	-	-
6	Check the continuity of the H1. Correct or replace as necessary.	-	-
7	Check the continuity of the H2. Correct or replace as necessary.	-	-
8	Change PU1	-	-
9	Change PWB-A	-	-

19.3.20 C4001: Main Unit Communication Failure

Relevant Electrical Parts	
MFBS Board (MFBS)	Mechanical Control Board (PWB-A)

		WIRING DIAGRAM	
Step	Action	Control Signal	Location (Electrical Component)
1	Check the MFBS connector for proper connection, and correct as necessary.	-	-
2	Check the PWB-A connector for proper connection, and correct as necessary.	-	-
3	Check the flat cable between MFBS and PWB-A for proper connection, and correct as necessary.	-	-
4	Turn OFF the Main Power Switch, wait for 10 sec. or more, and turn ON the Main Power Switch.	-	-
5	Change MFBS	-	-
6	Change PWB-A	-	-

19.3.21 C4002: HSYNC Detection Failure

Relevant Electrical Parts	
PH Unit (PH)	Mechanical Control Board (PWB-A)

		WIRING DIAGRAM	
Step	p Action	Control Signal	Location (Electrical Component)
1	Turn OFF the Main Power Switch, wait for 10 sec. or more, and turn ON the Main Power Switch.	-	-
2	Check the PH and the PWB-A connectors for proper connection, and correct as necessary.	-	-
3	Change PH	-	-
4	Change PWB-A	-	-

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19.3.22 C4101: Polygon Motor Failure

Relevant Electrical Parts	
PH Unit (PH)	MFBS Board (MFBS)

		WIRING DIAGRAM	
Step	Action	Control Signal	Location (Electrical Component)
1	Check the PH connector for proper connection, and correct as necessary.	-	-
2	Change PH	-	-
3	Change PWB-A	-	-

19.3.23 C4721: Main Unit G/A Communication Failure

	Relevant Ele	ectrical Parts
Mechanical Control Board (PWB-A)		

		WIRING DIAGRAM	
Step	Action	Control Signal	Location (Electrical Component)
1	Turn OFF the Main Power Switch, wait for 10 sec. or more, and turn ON the Main Power Switch.	-	-
2	Check each control board and the PWB-A for proper connection, and correct as necessary.	-	-
3	Change PWB-A	-	-

19.3.24 C5102: Main Motor Failure

Relevant Electrical Parts	
Main Motor (M1)	Mechanical Control Board (PWB-A) Power Supply Unit (PU1)

		WIRING DIAGRAM	
Step	Action	Control Signal	Location (Electrical Component)
1	Check the M1 connector for proper connection, and correct as necessary.	-	-
2	Check the M1 for proper drive coupling, and correct as necessary.	-	-
3	Check the PWB-A connector for proper connection and correct as necessary.	-	-
4	M1 operation check	PWB-A PJ28A-4 (REM)	M-4
5	Change PWB-A	-	-
6	Change PU1	-	-

19.3.25 C5351: Power Supply Cooling Fan Motor Failure

Relevant Electrical Parts	
Power Supply Cooling Fan Motor (M4)	Power Supply Unit (PU1)

		WIRING DIAGRAM	
Step	Action	Control Signal	Location (Electrical Component)
1	Check the M4 connectors for proper connection, and correct as necessary.	-	-
2	Check the fan for possible overload, and correct as necessary.	-	-
3	M4 operation check	PWB-A PJ33A-1 (REM)	D-5
4	Change PU1	-	-

19.3.26 C5352: Cooling Fan Motor Failure

Relevant Electrical Parts	
Cooling Fan Motor (M5)	Mechanical Control Board (PWB-A)

		WIRING DIAGRAM	
Step	Action	Control Signal	Location (Electrical Component)
1	Check the M5 connectors for proper connection, and correct as necessary.	-	-
2	Check the fan for possible overload, and correct as necessary.	-	-
3	M5 operation check	PWB-A PJ11A-6 (REM)	M-8
4	Change PWB-A	-	-

19.3.27 C5353: IU Cooling Fan Motor Failure

Relevant Electrical Parts	
IU Cooling Fan Motor (M6)	Mechanical Control Board (PWB-A)

		WIRING DIAGRAM	
Step	Action	Control Signal	Location (Electrical Component)
1	Check the M6 connectors for proper connection, and correct as necessary.	-	-
2	Check the fan for possible overload, and correct as necessary.	-	-
3	M6 operation check	PWB-A PJ15A-1 (REM)	D-16
4	Change PWB-A	-	-

19.3.28 CA052: MIO Device Failure

Relevant Electrical Parts		
BCRS Board (BCRS)		

		WIRING DIAGRAM	
Step	Action	Control Signal	Location (Electrical Component)
1	Turn OFF the Main Power Switch, wait for 10 sec. or more, and turn ON the Main Power Switch.	-	-
2	Check the BCRS connectors for proper connection, and correct as necessary.	-	-
3	Change BCRS	-	-

19.3.29 CC153: Flash ROM Failure

	Relevant Ele	ectrical Parts
Mechanical Control Board (PWB-A)		

		WIRING DIAGRAM	
Step	Action	Control Signal	Location (Electrical Component)
1	Disconnect and then connect the power cord. Turn OFF the Main Power Switch, wait for 10 sec. or more, and turn ON the Main Power Switch.	-	-
2	The firmware data is overwritten.	-	-
3	Change PWB-A	-	-

20. Power supply trouble

20.1 Machine is not Energized at All (PU1 Operation Check)

Relevant Electrical Parts		
Main Power Switch (S1)	Mechanical Control Board (PWB-A)	
Power Supply Unit (PU1)	MFBS Board (MFBS)	

Step	Check Item	Location (Electrical Component)	Result	Action
1	Is a voltage being applied to the electrical outlet?	-	NO	Provide a power supply.
2	Is the wiring to terminal S1 correct?	W-22	NO	Rewire
3	Is there continuity across the fuse (F101) on PU1?	-	NO	Change the fuse.
4	Is there continuity across the fuse (F103) on PU1?	-	NO	Change the fuse.
5	Is the wiring between the MFBS Board and Mechanical Control Board correct?	-	NO	Rewire
6	Is the wiring between the Mechanical Con- trol Board and Power Supply Unit correct?	-	NO	Rewire
7	Is DC 5 V being output from PJ8A-2 on the PWB-A?	-	NO	Change PWB-A
			YES	Change PU1

20.2 Only the Power Supply Cooling Fan Motor turns

Relevant Electrical Parts					
Power Supply Unit (PU1) Control Panel (UN1)	Mechanical Control Board (PWB-A)				

Step	Check Item	Location (Electrical Component)	Result	Action
1	Is DC 4.5 V being output from PJ8A-3 on the PWB-A?	-	NO	Change PWB-A
2	Is DC 5 V being output from PJ9PU1-1 on PU1?	-	NO	Change PU1
			YES	Change UN1

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20.3 The Start key (LED) on the control panel blinks green

Relevant Electrical Parts						
Total C	Counter	Control Panel (UN1)				
Step	Check Item	Location (Electrical Component)	Result	Action		
1	Is the Total Counter connector connected?	-	NO	Connect		
2	Is the machine in the Initial mode?	-	YES	Turn OFF the Main Power Switch, wait for 10 sec. or more, and turn ON the Main Power Switch.		

21. Image quality problem

21.1 How to identify problematic part

- This chapter is divided into two parts: "Initial Check Items" and "Troubleshooting Procedure by a Particular Image Quality Problem."
- When an image quality problem occurs, first go through the "Initial Check Items" and, if the cause is yet to be identified, go to "Troubleshooting Procedure by a Particular Image Quality Problem."

21.2 Initial Check Items

21.2.1 Initial Check Items 1

• Determine if the failure is attributable to a basic cause or causes.

Section	Step	Check Item	Result	Action
	1	Recommended paper is used.	NO	Instruct user.
Paper	2	Paper is damp.	YES	Replace paper. Instruct user on proper paper storage.
	3	Original not flat.	YES	Correct
	4	Faint original (light pencil, etc.)	YES	Instruct user.
Original	5	Highly transparent original (OHP transparencies, etc.)	YES	Instruct user.
	6	Dirty or scratched Original Glass.	YES	Clean or Replace.
PM parts	7	PM parts relating to image formation have reached the end of cleaning/replacement cycles.	YES	Clean or Replace.
Adjustment items	8	There are settings that can be readjusted to rem- edy the image failure.	YES	Readjust.

21.2.2 Initial Check Items 2

• Determine if the failure is attributable to the Scanner system or the Printer system.

Check Item	Result	Cause
Make copies at different zoom ratios.	Full size Reduction	Scanner system
A	Full size Reduction	Printer system

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21.3 Solution

21.3.1 Scanner System: Blank copy or black copy

A. Typical Faulty Images



Step	Section	Check Item	Result	Action
1	PWBs and Con- nection Cables	Connectors are securely connected with no bent pins and no breaks in the con- nection cables.	NO	Reconnect. Replace the connection cable.
2	Exposure Unit	The Exposure Lamp comes on.	NO	Change Exposure Lamp. Change Exposure Unit.
3	Inverter Board	Connectors on the Inverter Board are connected properly.	NO	Reconnect.
4		The problem has been eliminated after performing step 3.	NO	Change Inverter Board.
5	BCRS Board	Connectors on the BCRS Board are connected properly.	NO	Reconnect.
6		The problem has been eliminated after performing step 5.	NO	Change BCRS Board.
7	MFBS Board	Connectors on the MFBS Board are connected properly.	NO	Reconnect.
8		The problem has been eliminated after performing step 7.	NO	Change MFBS Board.
9	CCD Unit	Connectors on the CCD Unit Board are connected properly.	NO	Reconnect.
10		The problem has been eliminated after performing step 9.	NO	Change CCD Unit.

21.3.2 Scanner System: Low image density or rough image

A. Typical Faulty Images



Step	Section	Check Item	Result	Action
1	Shading Sheet	Shading sheet is dirty.	YES	Clean.
2	Mirrors/Lens/ Original Glass	Mirrors, lens and/or Original Glass are dirty.	YES	Clean.
3	Exposure Lamp	Exposure Lamp is dirty.	YES	Clean. Change Exposure Lamp.
4	PWBs and Con- nection Cables	Connectors are securely connected with no bent pins and no breaks in the con- nection cables.	NO	Reconnect. Replace the connection cable.
5	MFBS Board	Connectors on the MFBS Board are connected properly.	NO	Reconnect.
6		The problem has been eliminated after performing step 5.	NO	Change MFBS Board.
7	CCD Unit	Connectors on the CCD Unit Board are connected properly.	NO	Reconnect.
8		The problem has been eliminated after performing step 7.	NO	Change CCD Unit.

21.3.3 Scanner System: Foggy background

A. Typical Faulty Images



Step	Section	Check Item	Result	Action
1	-	Sunlight or any other extraneous light enters the machine.	YES	Protect the copier from extraneous light.
2	Original	Original is damaged or dirty.	YES	Change original.
3	Original Cover	Original Pad is dirty.	YES	Clean.
4		Original Cover does not lie flat.	YES	Replace Original Cover if it is deformed or the hinges are broken.
5	Shading Sheet	Shading sheet is dirty.	YES	Clean.
6	Mirrors/Lens/ Original Glass/ Reflectors	Mirrors, lens, Original Glass and/or reflectors are dirty.	YES	Clean.
7	Exposure Lamp	Exposure Lamp is dirty.	YES	Clean. Change Exposure Lamp.
8	PWBs and Con- nection Cables	Connectors are securely connected with no bent pins and no breaks in the con- nection cables.	NO	Reconnect. Replace the connection cable.
9	MFBS Board	Connectors on the MFBS Board are connected properly.	NO	Reconnect.
10		The problem has been eliminated after performing step 9.	NO	Change MFBS Board.
11	CCD Unit	Connectors on the CCD Unit Board are connected properly.	NO	Reconnect.
12		The problem has been eliminated after performing step 11.	NO	Change CCD Unit.

21.3.4 Scanner System: Black streaks or bands

A. Typical Faulty Images



Step	Section	Check Item	Result	Action
1	Original	Original is damaged or dirty.	YES	Change original.
2	Original Cover	Original Pad is dirty.	YES	Clean.
3		Original Cover does not lie flat.	YES	Replace Original Cover if it is deformed or the hinges are broken.
4	Shading Sheet	Shading sheet is dirty.	YES	Clean.
5	Mirrors/Lens/ Original Glass/ Reflectors	Mirrors, lens, Original Glass and/or reflectors are dirty.	YES	Clean.
6	Exposure Lamp	Exposure Lamp is dirty.	YES	Clean. Change Exposure Lamp.
7	BCRS Board	The problem has been eliminated after performing step 6.	NO	Change the Jumper Switch Setting on the BCRS Board. 218
8	PWBs and Con- nection Cables	Connectors are securely connected with no bent pins and no breaks in the con- nection cables.	NO	Reconnect. Replace the connection cable.
9	MFBS Board	Connectors on the MFBS Board are connected properly.	NO	Reconnect.
10		The problem has been eliminated after performing step 9.	NO	Change MFBS Board.
11	CCD Unit	Connectors on the CCD Unit Board are connected properly.	NO	Reconnect.
12		The problem has been eliminated after performing step 11.	NO	Change CCD Unit.

21.3.5 Scanner System: Black spots

A. Typical Faulty Images



Step	Section	Check Item	Result	Action
1	Original	Original is damaged or dirty.	YES	Change original.
2	Original Cover	Original Pad is dirty.	YES	Clean.
3	Original Glass	Original Glass is dirty.	YES	Clean.
4	-	The problem has been eliminated after performing step 3.	NO	Change Exposure Unit. Change CCD Unit.

21.3.6 Scanner System: White streaks or bands

A. Typical Faulty Images



Step	Section	Check Item	Result	Action
1	Original	Original is damaged or dirty.	YES	Change original.
2	Original Cover	Original Pad is dirty.	YES	Clean.
3		Original Cover does not lie flat.	YES	Replace Original Cover if it is deformed or the hinges are broken.
4	Shading Sheet	Shading sheet is dirty.	YES	Clean.
5	Mirrors/Lens/ Original Glass/ Reflectors	Mirrors, lens, Original Glass and/or reflectors are dirty.	YES	Clean.
6	Exposure Lamp	Exposure Lamp is dirty.	YES	Clean. Change Exposure Lamp.
7	BCRS Board	The problem has been eliminated after performing step 6.	NO	Change the Jumper Switch Setting on the BCRS Board. 218
8		The white lines or bands are blurry or opaque.	YES	Change Exposure Unit. Change CCD Unit.

21.3.7 Scanner System: Uneven pitch

A. Typical Faulty Images

B. Troubleshooting Procedure

Step	Section	Check Item	Result	Action
1	Scanner Motor	Scanner Motor drive is being transmit- ted.	NO	Correct or change drive coupling mechanism.
2	Exposure Lamp	Exposure Lamp harness is not hooked.	NO	Correct.
3	Scanner Drive Cable	Scanner Drive Cable is taut.	NO	Correct the wiring or replace the cable.
4	Scanner Rails	Scanner Rails are scratched or dirty.	NO	Clean or Change.
5	PWBs and Con- nection Cables	Connectors are securely connected with no bent pins and no breaks in the con- nection cables.	NO	Reconnect. Replace the connection cable.
6	MFBS Board	Connectors on the MFBS Board are connected properly.	NO	Reconnect.
7		The problem has been eliminated after performing step 6.	NO	Change MFBS Board.
8	CCD Unit	Connectors on the CCD Unit Board are connected properly.	NO	Reconnect.
9		The problem has been eliminated after performing step 8.	NO	Change CCD Unit.

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21.3.8 Printer System: Blank copy or black copy

A. Typical Faulty Images



Step	Section	Check Item	Result	Action
1	Imaging Unit	Developing Unit drive is being transmit- ted.	NO	Correct or change drive coupling mechanism.
2		Image transfer current contact terminal is dirty or deformed.	YES	Clean. Change Photo Conductor Unit.
3		Developing bias contact terminal is dirty or deformed.	YES	Clean. Change Photo Conductor Unit.
4	PH Unit	PH Shutter (shutter in the path of the laser beam from the PH Unit to the Photo Conductor) opens and closes properly.	NO	Correct.
5	PWBs	Connectors are securely connected with no bent pins on the Mechanical Control Board or PH Unit.	NO	Correct.
6	-	The problem has been eliminated after performing step 5.	NO	Change Photo Conductor Unit. Change PH Unit. Change High Voltage Unit. Change Mechanical Con- trol Board.

21.3.9 Printer System: Low image density or rough image

A. Typical Faulty Images



Step	Section	Check Item	Result	Action
1	Imaging Unit	Image transfer current contact terminal is dirty or deformed.	YES	Clean. Change Photo Conductor Unit.
2		Developing bias contact terminal is dirty or deformed.	YES	Clean. Change Photo Conductor Unit.
3	Tech. Rep. Mode → Image Den- sity	Select Tech. Rep. Mode \rightarrow [Tech. Rep. Choice] \rightarrow [Printer] \rightarrow [Image Density]. The image problem can be corrected by selecting an Image Density setting toward the + end.	YES	Make setting again.
4	Tech. Rep. Mode → Grid Voltage Adjustment	Select Tech. Rep. Mode \rightarrow [Tech. Rep. Choice] \rightarrow [Printer] \rightarrow [Grid Voltage Adjustment]. The image problem can be corrected by selecting an VG Adjust setting toward the + end.	YES	Make setting again.
5	-	The problem has been eliminated after performing step 4.	NO	Change Photo Conductor Unit. Change PH Unit. Change High Voltage Unit. Change Mechanical Con- trol Board.

21.3.10 Printer System: Foggy background

A. Typical Faulty Images



Step	Section	Check Item	Result	Action
1	-	Sunlight or any other extraneous light enters the machine.	YES	Protect the copier from extraneous light.
2	Imaging Unit	Photo Conductor is dirty.	YES	Change Photo Conductor Unit.
3		Comb Electrode contact terminal is dirty or deformed.	YES	Clean. Change Photo Conductor Unit.
4		Grid voltage contact terminal is dirty or deformed.	YES	Clean. Change Photo Conductor Unit.
5		Charge Neutralizing Sheet contact ter- minal is dirty or deformed.	YES	Clean. Change Photo Conductor Unit.
6	Erase Lamp	Erase Lamp is dirty.	YES	Clean.
7		Is there continuity across the Erase Lamp?	NO	Change Erase Lamp.
8	Tech. Rep. Mode → Image Den- sity	Select Tech. Rep. Mode \rightarrow [Tech. Rep. Choice] \rightarrow [Printer] \rightarrow [Image Density]. The image problem can be corrected by selecting an Image Density setting toward the - end.	YES	Make setting again.
9	Tech. Rep. Mode → Grid Voltage Adjustment	Select Tech. Rep. Mode \rightarrow [Tech. Rep. Choice] \rightarrow [Printer] \rightarrow [Grid Voltage Adjustment]. The image problem can be corrected by selecting an VG Adjust setting toward the - end.	YES	Make setting again.
10	-	The problem has been eliminated after performing step 9.	NO	Change Photo Conductor Unit. Change Developing Unit. Change PH Unit. Change High Voltage Unit. Change Mechanical Con- trol Board.

21.3.11 Printer System: Black streaks or bands

A. Typical Faulty Images



Step	Section	Check Item	Result	Action
1	Paper Path	Toner is on the paper path.	YES	Clean.
2	Imaging Unit	Photo Conductor is dirty.	YES	Change Photo Conductor Unit.
3	Fusing Unit	Fusing Rollers are dirty or scratched.	YES	Change Photo Conductor Unit.
4	-	The problem has been eliminated after performing step 3.	NO	Change Photo Conductor Unit. Change Developing Unit. Change Mechanical Con- trol Board.

21.3.12 Printer System: Black spots

A. Typical Faulty Images



Step	Section	Check Item	Result	Action
1	Paper Path	Toner is on the paper path.	YES	Clean.
2	Imaging Unit	Photo Conductor is dirty.	YES	Change Photo Conductor Unit.
3	Fusing Unit	Fusing Rollers are dirty or scratched.	YES	Change Fusing Unit.
4	Imaging Unit	Comb Electrode contact terminal is dirty or deformed.	YES	Clean. Change Photo Conductor Unit.
5		Grid voltage contact terminal is dirty or deformed.	YES	Clean. Change Photo Conductor Unit.
6		Charge Neutralizing Sheet contact ter- minal is dirty or deformed.	YES	Clean. Change Photo Conductor Unit.
7	Erase Lamp	Erase Lamp is dirty.	YES	Clean.
8		Is there continuity across the Erase Lamp?	NO	Change Erase Lamp.
9	-	The problem has been eliminated after performing step 8.	NO	Change Photo Conductor Unit. Change Developing Unit. Change High Voltage Unit. Change Mechanical Con- trol Board.

21.3.13 Printer System: White streaks or bands

A. Typical Faulty Images



Step	Section	Check Item	Result	Action
1	Transfer Roller	Transfer Roller is dented or scratched.	YES	Change Transfer Roller Unit.
2	Imaging Unit	Photo Conductor is dirty.	YES	Change Photo Conductor Unit.
3	Fusing Unit	Fusing Rollers are dirty or scratched.	YES	Change Fusing Unit.
4	PH Unit	Window glass of the PH Unit is dirty.	YES	Clean.
5	-	The problem has been eliminated after performing step 4.	NO	Change Photo Conductor Unit. Change Developing Unit. Change Mechanical Con- trol Board.

21.3.14 Printer System: Void areas

A. Typical Faulty Images

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Step	Section	Check Item	Result	Action
1	Imaging Unit	Photo Conductor is dirty.	YES	Change Photo Conductor Unit.
2	Transfer Roller	Transfer Roller is dented or scratched.	NO	Change Transfer Roller Unit.
3	Fusing Unit	Fusing Rollers are scratched or deformed.	YES	Change Fusing Unit.
4	-	The problem has been eliminated after performing step 3.	NO	Change Photo Conductor Unit. Change Developing Unit. Change Mechanical Con- trol Board.

21.3.15 Printer System: Smears on back of paper

A. Typical Faulty Images

E.

Step	Section	Check Item	Result	Action
1	Paper Path	Toner is on the paper path.	YES	Clean.
2	Transfer Roller	Transfer Roller is dirty.	YES	Change Transfer Roller Unit.
3	Fusing Unit	Fusing Roller is dirty.	YES	Change Fusing Unit.

21.3.16 Printer System: Uneven image density

A. Typical Faulty Images



Step	Section	Check Item	Result	Action
1	Transfer Roller	Transfer Roller is dirty or deformed.	YES	Change Transfer Roller Unit.
2	-	The problem has been eliminated after performing step 1.	NO	Change Photo Conductor Unit. Change Developing Unit. Change Mechanical Con- trol Board.

21.3.17 Printer System: Gradation reproduction failure

A. Typical Faulty Images

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B. Troubleshooting Procedure

Step	Section	Check Item	Result	Action
1	Transfer Roller	Transfer Roller is dirty or deformed.	YES	Change Transfer Roller Unit.
2	-	The problem has been eliminated after performing step 1.	NO	Change Photo Conductor Unit. Change Developing Unit. Change Mechanical Con- trol Board.

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21.3.18 Printer System: Uneven pitch

A. Typical Faulty Images

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Step	Section	Check Item	Result	Action
1	Imaging Unit	Developing Unit drive is being transmit- ted.	NO	Correct or change drive coupling mechanism.
2	Developing Section	Photo Conductor and Transfer Roller drive is being transmitted.	NO	Correct or change drive coupling mechanism.
3	Transport Section	Synchronizing Rollers Unit drive is being transmitted.	NO	Correct or change drive coupling mechanism.
4	Fusing Section	Fusing Unit drive is being transmitted.	NO	Correct or change drive coupling mechanism.
5	Imaging Unit	Ds Collar is dirty.	YES	Clean.
6	PH Unit	PH Unit is securely installed.	YES	Correct.
7	-	The problem has been eliminated after performing step 6.	NO	Change Photo Conductor Unit. Change Developing Unit. Change Mechanical Con- trol Board.

22. Abort codes

• The copier displays an abort code on the Touch Panel as it becomes unable to process tasks properly through its software control.



22.1 List of Abort Codes

• When the system program is aborted, the copier attempts to restart it automatically. If it fails to restart the program, check the electrical component, unit, option, and connection relating to the specific type of the abort condition.

Description	Code	Relevant Electrical Components, Units, and Options
OS processing system failure	0x00000000 to 0x000fffff	MFBS Board
Device control system fail- ure	0x00100000 to 0x001fffff	MFBS Board, FAX Board, Memory Board*, FS-508, JS- 502, MT-501, SD-502
Copy control system fail- ure	0x00200000 to 0x002fffff	MFBS Board
Operation system failure	0x00300000 to 0x003fffff	MFBS Board, Touch Panel, Panel Board
Conversion processing system failure	0x00500000 to 0x005fffff	MFBS Board
Encoding processing sys- tem failure	0x00600000 to 0x006fffff	MFBS Board, Memory Board*
File control system failure	0x00700000 to 0x007fffff	MFBS Board, Memory Board*
G3 protocol processing system failure	0x00800000 to 0x008fffff	MFBS Board, FAX Board, Memory Board*
G3 device control system failure	0x00900000 to 0x009fffff	MFBS Board, FAX Board, Memory Board*
Scanner control system failure	0x00c00000 to 0x00c0ffff	MFBS Board, BCRS Board, Inverter Board, DF-605
Scanner control system failure	0x00c10000 to 0x00c2ffff	MFBS Board, BCRS Board, Inverter Board, DF-605

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22. Abort codes

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Description	Code	Relevant Electrical Components, Units, and Options
Scanner control system failure	0x00c30000 to 0x00c4ffff	MFBS Board, BCRS Board, Inverter Board, DF-605
Scanner control system failure	0x00c50000 to 0x00c5ffff	MFBS Board, BCRS Board, Inverter Board, DF-605
Scanner device control system failure	0x00d00000 to 0x00d3ffff	MFBS Board, BCRS Board, Inverter Board
Scanner device control system failure	0x00d80000 to 0x00dbffff	MFBS Board, BCRS Board, Inverter Board, DF-605
Scanner device control system failure	0x00dc0000 to 0x00dfffff	MFBS Board, Scanner Home Sensor, Scanner drive system, BCRS Board
Printer sequence system failure	0x00e00000 to 0x00e000ff	MFBS Board, Memory Board*
Printer sequence system failure	0x00e00100 to 0x00e001ff	MFBS Board, Memory Board*
Printer sequence system failure	0x00e00200 to 0x00e002ff	MFBS Board, Memory Board*
Printer sequence system failure	0x00e00300 to 0x00e003ff	MFBS Board, Memory Board*
Printer sequence system failure	0x00e00400 to 0x00e004ff	MFBS Board, Memory Board*
Printer system failure	0x00f00000 to 0x00f0ffff	MFBS Board, Memory Board*
EP-NET sequence sys- tem failure (U.S.A. and Canada only)	0x00f10000 to 0x00f1ffff	MFBS Board
Counter sequence system failure	0x00f20000 to 0x00f2ffff	MFBS Board
Other failures	0x01100000 to 0x011000ff	MFBS Board
Copy sequence system failure	0x01100100 to 0x011001ff	MFBS Board
Function sequence sys- tem failure	0x01100400 to 0x011004ff	MFBS Board
OS message processing system failure	0x02000000 to 0x020fffff	MFBS Board, Memory Board*
Network processing sys- tem failure	0x03000000 to 0x030fffff	MFBS Board, Memory Board*

*: Attached to Network Scan Kit, Internet Fax & Network Scan Kit and Printer Controller, Expansion Memory.

Appendix

23. Parts layout drawing

23.1 Main unit



- [1] Duplex Unit Door Sensor (PC23)
- [2] Switch Back Unit Sensor (PC26)
- [3] Duplex Unit Upper Transport Sensor (PC24) [12] AC Power Source
- [4] Paper Exit Sensor (PC4)
- [5] Fusing Roller Thermostat (TS1)
- [6] Bypass Lift Sensor (PC29)
- [7] Right Lower Door Sensor (PC3)
- [8] Bypass Paper Empty Sensor (PC18)
- [9] Bypass Pick-Up Solenoid (SL3)

- [10] Duplex Unit Lower Transport Sensor (PC25)
- [11] Sub Hopper Solenoid (SL1)
- [13] Main Power Switch (S1) [14] Main Hopper Solenoid (SL2)
- [15] Sub Hopper Empty Switch (S4)
- [16] Right Side Door Interlock Switch 1 (S2)
- [17] Switchback Solenoid (SL4)



- [1] Switchback Motor (M3)
- [2] Duplex Unit Transport Clutch 1 (CL6)
- [3] Synchronizing Roller Clutch (CL1)
- [4] Duplex Unit Transport Clutch 2 (CL7)
- [5] Fusing Roller Sub Thermistor (TH2)
- [6] High Voltage Register (R2)
- [7] Fusing Unit Cooling Fan Motor (M10)
- [8] Fusing Roller Thermistor (TH1)
- [9] Fusing Roller Sub Heater Lamp (H2)
- [10] Fusing Roller Heater Lamp (H1)
- [11] Total Counter (CNT1)

- [12] High Voltage Unit (HV1)
- [13] Bypass Paper Feed Clutch (CL5)
- [14] Erase Lamp (LA1)
- [15] Power Supply Unit (PU1)
- [16] Power Supply Cooling Fan Motor (M4)
- [17] Toner Suction Fan Motor (M11)
- [18] Drum Thermistor (TH4)
- [19] Temperature/humidity Sensor (TH3)
- [20] Mechanical Control Board (PWB-A)
- [21] Main Motor (M1)
- [22] IU Motor (M2)



- [1] Scanner Motor (M12)
- [2] MFBS Board (MFBS)
- [3] CCD Board (CCD)
- [4] Size Reset Switch (SW201)
- [5] Control Panel (UN1)
- [6] Pre-Transfer Guide Plate Register (R3)
- [7] Original Size Sensor 3 (PC203) (Option)
- [8] Speaker (SP1)
- [9] FD Paper Size Board 1 (PWB-I1)
- [10] FD Paper Size Board 2 (PWB-I2)
- [11] Original Size Sensor 2 (PC202)

- [12] Original Size Sensor 1 (PC201)
- [13] Original Size Sensor 7 (PC207)
- [14] Exposure Lamp (LA2)
- [15] Scanner Home Sensor (PC208)
- [16] Original Cover Angle Sensor (PC209)
- [17] Inverter Board (INV)
- [18] BCRS Board (BCRS)
- [19] Original Size Sensor 4 (PC204)
- [20] Original Size Sensor 5 (PC205) (Option)
- [21] Original Size Sensor 6 (PC206) (Option)



- [1] Cooling Fan Motor (M5)
- [2] Synchronizing Roller Sensor (PC1)
- [3] Tray1 Paper Lift Sensor (PC6)
- [4] Tray2 Paper Lift Sensor (PC12)
- [5] Tray1 Paper Empty Sensor (PC9)
- [6] Front Door Sensor (PC5)
- [7] Bypass FD Paper Size Sensor/4 (PC22)
- [8] Bypass FD Paper Size Sensor/2 (PC20)
- [9] Bypass FD Paper Size Sensor/3 (PC21)
- [10] Bypass FD Paper Size Sensor/1 (PC19)
- [11] Bypass Paper Size Detection Unit (VR1)
- [12] IU Cooling Fan Motor (M6)
- [13] Right Side Door Interlock Switch 2 (S3)
- [14] Tray2 Paper Empty Sensor (PC15)

- [15] Tray2 Paper Near-Empty Sensor (PC14)
- [16] Tray2 Paper Lift Motor (M8)
- [17] Tray2 CD Paper Size Sensor 2 (PC16)
- [18] Tray2 CD Paper Size Sensor 1 (PC17)
- [19] Tray2 Set Sensor (PC13)
- [20] Tray1 CD Paper Size Sensor 1 (PC11)
- [21] Tray1 CD Paper Size Sensor 2 (PC10)
- [22] Tray1 Set Sensor (PC7)
- [23] Tray1 Paper Lift Motor (M7)
- [24] Tray1 Paper Near-Empty Sensor (PC8)
- [25] 2nd Drawer Paper Feed Clutch (CL4)
- [26] 1st Drawer Paper Feed Clutch (CL3)
- [27] Vertical Conveyance Clutch (CL2)

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Appendix

23.2 Duplex Unit



- [2] Duplex Unit Upper Transport Sensor (PC24)
- [3] Duplex Unit Lower Transport Sensor (PC25)
- Duplex Unit Transport Clutch 2 (CL7)
- [5] Duplex Unit Transport Clutch 1 (CL6)

23.3 Switch Back Unit





- [1] Switchback Motor (M3)
- [2] Fusing Unit Cooling Fan Motor (M10)
- [3] Switch Back Unit Sensor (PC26)
- [4] Switchback Solenoid (SL4)

23.4 DF-605



- [1] Interface Board (PWA-TRAY)
- [2] FD Paper Size Detection Sensor 1 (PC1-ADF)
- [3] FD Paper Size Detection Sensor 3 (PC3-ADF)
- [4] FD Paper Size Detection Sensor 4 (PC4-ADF)
- [5] FD Paper Size Detection Sensor 2 (PC2-ADF)
- [6] Variable Resistor (PBA-VR)
- [7] Mix Document Size Detection Board (PBA-SIZE)
- [8] Print Lamp Board (PBA-LED)
- [9] Exit Roller Retraction Solenoid (SL1-ADF)
- [10] Empty Sensor (PC5-ADF)

- [11] Stamp Solenoid (SL2-ADF)
- [12] Original Detection Sensor (PC8-ADF)
- [13] Exit/Turnover Sensor (PC10-ADF)
- [14] Registration Sensor (PC9-ADF)
- [15] Separator Sensor (PC6-ADF)
- [16] Transport Motor (M2-ADF)
- [17] Paper Feed Motor (M1-ADF)
- [18] Upper Door Open/Close Sensor (PC7-ADF)
- [19] Cooling Fan Motor (M3-ADF)
- [20] Main Control Board (PBA-CONT)

23.5 PC-102/PC-202 (Option)



- [1] Tray3 Vertical Conveyance Motor (M120-PF)
- [2] Door Sensor (PC111-PF)
- [3] Tray3 Lift Sensor (PC114-PF)
- [4] Tray3 Vertical Conveyance Sensor (PC117-PF)
- [5] Tray3 Paper Take-Up Sensor (PC116-PF)
- [6] Tray3 Paper Empty Sensor (PC115-PF)
- [7] Tray4 Vertical Conveyance Sensor (PC126-PF)
- [8] Tray4 Paper Take-Up Sensor (PC125-PF)
- [9] Tray4 Paper Empty Sensor (PC124-PF)
- [10] Tray4 Lift Sensor (PC123-PF)
- [11] Tray4 Vertical Conveyance Motor (M121-PF)
- [12] Tray4 Paper Feed Motor (M123-PF)
- [13] Tray4 Lift Motor (M125-PF)

- [14] Tray4 Paper Near-Empty Sensor (PC122-PF)
- [15] Tray4 CD Paper Size Sensor 2 (PC128-PF)
- [16] Tray4 CD Paper Size Sensor 1 (PC127-PF)
- [17] Tray4 FD Paper Size Detection Board (PWB-I4 PF)
- [18] Tray4 Set Sensor (PC121-PF)
- [19] Main Control Board (PWB-C2 PF)
- [20] Tray3 FD Paper Size Detection Board (PWB-I3 PF)
- [21] Tray3 CD Paper Size Sensor 1 (PC118-PF)
- [22] Tray3 CD Paper Size Sensor 2 (PC119-PF)
- [23] Tray3 Set Sensor (PC112-PF)
- [24] Tray3 Paper Near-Empty Sensor (PC113-PF)
- [25] Tray3 Lift Motor (M124-PF)
- [26] Tray3 Paper Feed Motor (M122-PF)

23.6 PC-402 (Option)



- [1] Vertical Conveyance Motor (M2-LCT)
- [2] Right Lower Door Sensor (PC5-LCT)
- [3] Vertical Conveyance Sensor (PC2-LCT)
- [4] Tray Upper Limit Sensor (PC4-LCT)
- [5] Paper Feed Sensor (PC1-LCT)
- [6] Upper Paper Empty Sensor (PC3-LCT)
- [7] Paper Empty Board (PWB-E LCT)
- [8] Elevator Motor (M5-LCT)
- [9] Elevator Motor Pulse Sensor (PC10-LCT)
- [10] Lower Limit Sensor (PC7-LCT)
- [11] Shift Motor Pulse Sensor (PC8-LCT)
- [12] Shift Motor (M4-LCT)

- [13] Paper Descent Key (UN1-LCT)
- [14] Shifter Return Position Sensor (PC11-LCT)
- [15] Tray Lower Position Sensor (PC13-LCT)
- [16] Shift Tray Paper Empty Sensor (PC9-LCT)
- [17] Shifter Home Position Sensor (PC12-LCT)
- [18] Shift Gate Motor (M3-LCT)
- [19] Shift Gate Home Position Sensor (PC14-LCT)
- [20] Interface Board (PWB-H LCT)
- [21] Main Control Board (PWB-C1 LCT)
- [22] Tray Lock Solenoid (SL1-LCT)
- [23] Tray Set Sensor (PC6-LCT)
- [24] Paper Feed Motor (M1-LCT)

23.7 JS-502 (Option)



[1] Paper Full Detection Sensor (PC1-JOB)

23.8 FS-508 (Option)



- Exit Open/Close Motor (M6-FN)
- [2] Alignment Home Position Sensor 1 (PC6-FN) [17] Alignment Motor 1 (M4-FN)
- [4] Transport Sensor (PC5-FN)
- [5] Entrance Motor (M3-FN)
- [6] Storage Tray Detecting Sensor (PC8-FN)
- Entrance Sensor (PC4-FN) [7]
- [8] Registration Clutch (CL1-FN)
- [9] Transport Jam Detection Switch (S4-FN)
- [10] Front Cover Detection Switch (S1-FN)
- [11] Storage Paddle Solenoid (SL1-FN)
- [12] Main Control Board (PWB-A FN)
- [13] Exit Motor (M1-FN)
- [14] Stapling Unit Moving Motor (M7-FN)

- [16] Alignment Motor 2 (M5-FN)
- [3] Exit Roller Home Position Sensor (PC12-FN) [18] Exit Paddle Home Position Sensor (PC11-FN)
 - [19] Staple Home Position Sensor (PC10-FN)
 - [20] Exit Paddle Solenoid (SL2-FN)
 - [21] Elevator Board (PWB-B FN)
 - Elevator Tray Home Position Sensor [22] (PC3-FN)
 - [23] Elevator Motor (M11-FN)
 - [24] Elevator Tray Lower Limit Sensor (PC14-FN)
 - [25] Top Face Detection Sensor (PC15-FN)
 - [26] Shutter Detection Switch (S2-FN)
 - Elevator Tray Upper/Lower Limit Switch [27] (S3-FN)
 - [28] Shutter Home Position Sensor (PC16-FN)
 - [29] Shutter Opening Motor (M12-FN)
- [15] Alignment Home Position Sensor 2 (PC7-FN) [30] Transport Motor (M2-FN)

Appendix

23.9 PU-501 (Option)



[1] Punch Trash Full (PC1-PK)

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23.10 MT-501 (Option)



- [1] Cover Open/Close Sensor (PC11-MK)
- [2] Paper Full Detection Sensor 4 (PC8-MK)
- [3] Paper Detection Sensor 4 (PC4-MK)
- [4] Paper Full Detection Sensor 3 (PC7-MK)
- [5] Paper Full Detection Sensor 2 (PC6-MK)
- [6] Upper Transport Sensor (PC9-MK)
- [7] Paper Full Detection Sensor 1 (PC5-MK)
- [8] Lower Transport Sensor (PC10-MK)

- [9] Paper Detection Sensor 1 (PC1-MK)
- [10] Paper Detection Sensor 2 (PC2-MK)
- [11] Paper Detection Sensor 3 (PC3-MK)
- [12] Bin Entrance Switching Solenoid 1 (SL1-MK)
- [13] Main Control Board (PWB-A MK)
- [14] Bin Entrance Switching Solenoid 2 (SL2-MK)
- [15] Transport Motor (M1-MK)
- [16] Bin Entrance Switching Solenoid 3 (SL3-MK)
23.11 SD-502 (Option)



- [1] Crease Motor (M10-SK)
- [2] Crease Roller Home Position Sensor (PC22-SK)
- [3] Saddle Interlock Switch (S4-SK)
- [4] Layable Guide Home Sensor (PC26-SK)
- [5] In & Out Guide Home Sensor (PC23-SK)
- [6] Saddle Exit Sensor (PC20-SK)
- [7] Layable Guide Motor (M14-SK)

- [8] Saddle Tray Empty Sensor (PC21-SK)
- [9] In & Out Guide Motor (M13-SK)
- [10] Transport Pulse Sensor (PC25-SK)
- [11] Saddle Exit Motor (M8-SK)
- [12] Saddle Exit Roller Home Position Sensor (PC18-SK)
- [13] Saddle Exit Open/Close Motor (M9-SK)
- [14] Main Control Board (PWB-C SK)

24. Connector layout drawing





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No.	CN No.	Location	No.	CN No.	Location
[1]	CN13	L-18 to 19	[10]	CN2	F-14
[2]	CN25	F-15	[11]	CN31	K-13
[3]	CN44	L-11	[12]	CN5	U-17
[4]	CN81	M-12	[13]	CN43	F-16
[5]	CN42	L-8	[14]	CN12	K-15 to 16
[6]	CN45	L-9	[15]	CN28	F-6
[7]	CN82	L-8	[16]	CN17	L-12
[8]	CN4	T-17	[17]	CN14	L-5 to 6
[9]	CN30	L-9			



No.	CN No.	Location	No.	CN No.	Location
[1]	CN53	F-15	[14]	CN32	L-10
[2]	CN55	M-5	[15]	CN18	L-7
[3]	CN50	L-15	[16]	CN1	V-22
[4]	CN80	M-12	[17]	CN20	F-8
[5]	CN51	L-14	[18]	CN19	L-6
[6]	CN46	E-10	[19]	CN27	F-10
[7]	CN48	E-10	[20]	CN52	E-11
[8]	CN24	F-15	[21]	CN10	D-2 to 3
[9]	CN26	F-16 to 17	[22]	CN11	D-12 to 13
[10]	CN49	M-11	[23]	CN70	E-11
[11]	CN54	M-13	[24]	CN23	E-11
[12]	CN71	M-13	[25]	CN47	F-7
[13]	CN15	F-14			

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25. Timing chart

25.1 Main unit

A4 1-page printing, paper fed from Tray 1



25.2.1

25.2 DF-605

1-Sided Mode (A4 two sheets feeding)

Take-up Start 2nd Document fed out End								*				4040F5E521DA
2 2nd Document ack End Fist Document												
st page completed Switchback Start												
Scanning of 2nd side of 1 d side of 1st page started	-											
d witchback End Scanning of 27	2											
st page complete Santr												
ning of 1st side of 1 page started		┛╴┠╶			 	 		 	+ 			
Scanr page started g of 1st side of 1st			Ļ							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
DN / Take-up of 1st ent								¥				
Start key (Docum	OFF ON	OFF 0N 0FF	or 0N 0FF	OFF	OFF	ON	ON	OFF OFF	OFF OI	High Low Stop	High – Low – – – – – – – – – – – – – – – – – – –	
	Empty Sensor PC5-ADF Separator Sensor	PC6-ADF Registation Sensor PC9-ADF	Original Detection Sens PC8-ADF	Exit/Trunover Sensor PC10-ADF	Exit Roller Retraction Solenoid SL1-ADF	Stanp Solenoid SI 2-ADF	DSET Signal	VD Signal	NEXTPAGE Signal	Paper Feed Motor M1-ADF	Transport Motor M2-ADF	

25.2.2 2-Sided Mode (A4 two sheets feeding)

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	Take-up of 1st page started Start bage started Start key ON / Take-up of 1st page started Start key ON / Take-up of 1st page started I Scanning of 2nd page started
	Document loaded Scanning of 1st page started Scanning of 1st page completed
Empty Sensor	0N Scanning of zid page completed
PC5-ADF	
Separator Sensor	
PC6-AUF	
Registation Sensor	
PG9-AUF	
Original Detection Sensor PC8-ADF	
Exit/Trunover Sensor	
PCIU-AUF	
Exit Roller Retraction Solenoid SL1-ADF	
Stann Solenoid	
SL2-ADF	
DSET Cianol	
DOCT SIGNAL	
VD Signal	
NEXTPAGE Signal	
Paper Feed Motor	
Mic Mic	
Transport Motor	
M2-ADF	
-	Low

Fax Fine mode (A4 two sheets feeding)

25.2.3

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	Start key ON / Take-u Document loaded	o of 1st page started Started Command received / Take-up of 2nd page started Command received Command received Scanning of 1st page started Scanning of 1st page completed Scanning of And page started Command received	
Empty Sensor (PC5-ADF			
Separator Sensor (PC6-ADF 0F			
Registation Sensor (PC9-ADF 0F	N L		
Original Detection Sensor (PC8-ADF 0F	N L		
Exit/Trunover Sensor (PC10-ADF 0F	N L		
Exit Roller Retraction Solenoid C	NL		
Stanp Solenoid (SL2-ADF 0F	NL		
DSET Signal 0F	NL		
VD Signal 0F	<u>v</u> L		
NEXTPAGE Signal OF	NL		
Hi, Paper Feed Motor Lc M1-ADF Stt Middl		$ \begin{array}{c} \cdot \\ \cdot $	
Hic Lo Transport Motor Lo M2–ADF Lo Hig			
	The Bottom	aerformed only when Top/Bottom or Bottom is selected for TX Marker. Stamp is performed only when the transmission is completed.	DA

25.2.4 Fax real-time transmission mode (A4 two sheets feeding)

25. Timing chart



SERVICE MANUAL

FIELD SERVICE

Duplex Unit/ Switchback Unit

2005.08 KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. Ver. 1.0

Revision history

After publication of this service manual, the parts and mechanism may be subject to change for improvement of their performance.

Therefore, the descriptions given in this service manual may not coincide with the actual machine.

When any change has been made to the descriptions in the service manual, a revised version will be issued with a revision mark added as required.

Revision mark:

- To indicate clearly a section revised, show $\underline{\land}$ to the left of the revised section. A number within $\underline{\land}$ represents the number of times the revision has been made.
- To indicate clearly a section revised, show **(** in the lower outside section of the corresponding page.

A number within **A** represents the number of times the revision has been made.

NOTE

Revision marks shown in a page are restricted only to the latest ones with the old ones deleted.

- When a page revised in Ver. 2.0 has been changed in Ver. 3.0: The revision marks for Ver. 3.0 only are shown with those for Ver. 2.0 deleted.
- When a page revised in Ver. 2.0 has not been changed in Ver. 3.0: The revision marks for Ver. 2.0 are left as they are.

2005/08	1.0	—	Issue of the first edition
Date	Service manual Ver.	Revision mark	Descriptions of revision

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General

1. Product specifications

А. Туре

(1) Duplex Unit

Name	Duplex Unit
Туре	Switchback and Circulating Duplex Unit
Installation	Mounted on the right side door of main unit
Document Alignment	Center

B. Paper type

(1) Duplex Unit

Paper Type	Plain paper	56 g/m ² to 90 g/m ² (15 to 24 lb)
Paper Size	A5R to A3, 5.5 × 8.5R to 12	2.25 × 18

C. Machine specifications

(1) Duplex Unit

Power Requirements	DC 24 V ± 10 % (supplied from the main unit)
i ower rrequirements	DC 5 V \pm 5 % (supplied from the main unit)
Dimensions *1	89 mm (W) x 419 mm (D) x 358 mm (H) 3.5 inch (W) x 16.5 inch (D) x 14 inch (H)
Weight *1	Approx. 2.2 kg (4.75 lb)

*1: Values given only for reference when the Duplex Unit is demounted from the machine, since it is standard on the machine

D. Operating environment

• Conforms to the operating environment of the main unit.

NOTE

• These specifications are subject to change without notice.

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Maintenance

2. Other

2.1 Disassembly/Adjustment prohibited items

- A. Screws to which blue paint or green paint is applied
- Blue paint or green paint is applied to some screws to prevent them from coming loose.
- As a general rule, screws to which blue paint or green paint is applied should not be removed or loosened.
- B. Red-painted screws
- Do not remove or loosen any of the red-painted screws in the field. It should also be noted that, when two or more screws are used for a single part, only one representative screw may be marked with the red paint.
- C. Variable Resistors on Board

NOTE

- Do not turn the variable resistors on boards for which no adjusting instructions are given in Adjustment/Setting.
- D. Removal of PWBs

- When removing a circuit board or other electrical component, refer to "SAFETY AND IMPORTANT WARNING ITEMS" and follow the corresponding removal procedures.
- The removal procedures given in the following omit the removal of connectors and screws securing the circuit board support or circuit board.
- Where it is absolutely necessary to touch the ICs and other electrical components on the board, be sure to ground your body.

2.2 Disassembly/Assembly/Cleaning list

2.2.1 Disassembly/Assembly list

No	Section	Part name	Ref. page
1		Duplex Unit Right Cover	æ 4
2	Exterior parts Switch Back Unit Fan Motor Cover		æ 5
3		Switch Back Unit Right Cover	æ 5

2.2.2 Cleaning parts list

No	Section	Part name	Ref. page
1		Duplex Unit Transport Roller/Roll 1, 2	æ 5
2	Transport section	Duplex Unit Transport Roller/Roll 3	æ 5
3		Switch Back Unit Transport Roller/Roll	æ 6
4	Ventilation Section	Duplex Unit Ventilation Section	æ 6

2.3 Disassembly/Assembly procedure

2.3.1 Duplex Unit

A. Right Cover



1. Remove two screws [1] and Right Cover [2].

2. Other

2.3.2 Switch Back Unit

A. Fan Motor Cover/Right Cover



- 1. Remove two screws [1] and Fan Motor Cover [2].
- 2. Remove two screws [3] and Right Cover [4].

2.4 Cleaning procedure

NOTE

• The alcohol described in the cleaning procedure represents the isopropyl alcohol.

2.4.1 Cleaning of the Duplex Unit Transport Roller/Roll 1 and 2



- 1. Open the Duplex Unit Door.
- Using a soft cloth dampened with alcohol, wipe the Duplex Unit Transport Roller/Roll 1 and 2 [1] clean of dirt.

2.4.2 Cleaning of the Duplex Unit Transport Roller/Roll 3



- 1. Remove the Duplex Unit.
- 2. Using a soft cloth dampened with alcohol, wipe the Duplex Unit Transport Roller/Roll 3 [2] clean of dirt.

2.4.3 Cleaning of the Duplex Unit Ventilation Section





- Using a soft cloth dampened with alcohol, wipe the outside of the Duplex Unit Ventilation Section [1] clean of dirt.
- 2. Open the Duplex Unit Door [2].
- Using a soft cloth dampened with alcohol, wipe the inside of the Duplex Unit Ventilation Section [3] clean of dirt.

2.4.4 Cleaning of the Switch Back Unit Transport Roller/Roll



 Using a soft cloth dampened with alcohol, wipe the Switch Back Unit Transport Roller/Roll [1] clean of dirt.

Adjustment/Setting

3. How to use the adjustment section

- "Adjustment/Setting" contains detailed information on the adjustment items and procedures for this machine.
- · Throughout this "Adjustment/Setting," the default settings are indicated by " ".

Advance Checks

Before attempting to solve the customer problem, the following advance checks must be made. Check to see if:

- The power supply voltage meets the specifications.
- The power supply is properly grounded.
- The machine shares the power supply with any other machine that draws large current intermittently (e.g., elevator and air conditioner that generate electric noise).
- The installation site is environmentally appropriate: high temperature, high humidity, direct sunlight, ventilation, etc.; levelness of the installation site.
- The original has a problem that may cause a defective image.
- The density is properly selected.
- The Original Glass, slit glass, or related part is dirty.
- Correct paper is being used for printing.
- The units, parts, and supplies used for printing (developer, PC Drum, etc.) are properly replenished and replaced when they reach the end of their useful service life.
- Toner is not running out.

- To unplug the power cord of the machine before starting the service job procedures.
- If it is unavoidably necessary to service the machine with its power turned ON, use utmost care not to be caught in the Scanner Cables or gears of the Exposure Unit.
- Special care should be used when handling the Fusing Unit which can be extremely hot.
- The Developing Unit has a strong magnetic field. Keep watches and measuring instruments away from it.
- Take care not to damage the PC Drum with a tool or similar device.
- Do not touch IC pins with bare hands.

4. I/O Check

4.1 Check procedure

• To allow sensors to be checked for operation easily and safely, data applied to the IC on the board can be checked on the panel with the main unit in the standby state (including a misfeed, malfunction, and closure failure condition).

<Procedure>

- 1. Call the Tech. Rep. Mode to the screen.
- For details of how to display the Tech. Rep. Mode screen, see the Adjustment/Setting of the main unit service manual.
- 2. Touch the [I/O Check].
- 3. Touch the [Printer].
- 4. Touch the [Bypass/Duplex].

4.2 I/O check list

4.2.1 I/O check screen

 This is only typical screen which may be different from what are shown on each individual main unit.

Bypass/Duplex		END	
Paper Passage		FD Size 3	0
Timing Roller	0	FD Size 4	0
Exit	0	Bypass Tray Pick Up	0
2nd Paper Feed	0	Duplex	
3rd Paper Feed	0	Duplex Paper Passage 1	0
4th Paper Feed	0	Duplex Paper Passage 2	0
Bypass		Reverse	0
Bypass Tray	0	Duplex Set	0
Paper Empty	0	Duplex Cover	0
FD Size 1	0	Bypass Paper Width Detect	
FD Size 2	0	Bypass Paper Width Detect	0

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4.2.2 I/O check list

Symbol	Panel display	Part/Signal name	Operation characteris- tics/Panel display	
			1	0
PC24	Duplex Paper Passage 1	Duplex Unit Upper Transport Sensor	Paper present	Paper not present
PC25	Duplex Paper Passage 2	Duplex Unit Lower Transport Sensor	Paper present	Paper not present
PC26	Revers	Switch Back Unit Sensor	Paper present	Paper not present
-	Duplex Set	Duplex Unit Set signal	Not set	Set
PC23	Duplex Cover	Duplex Unit Door Sensor	Open	Close

Adjustment / Setting

5. Adjustment

5.1 Adjusting the paper reference position











- 1. Display Adjust Mode.
- For details of how to display the Adjust Mode screen, see the Adjustment/Setting of the main unit service manual.
- 2. Touch the [Printer].
- 3. Touch the [Registration (CD)].

4. Touch the [Test Print].

Duplex Unit/ Switchback Unit

- 5. Touch the [Duplex].
- 6. Press the Start key.

7. Measure the width of printed reference line A

Specification: 10 mm \pm 3.0 mm

8. If width A falls within the specified range, finish the adjustment procedure.

If outside the specified range, perform the adjustment below.

9

- 9. Touch [END] to display the Registration (CD) screen.
- 10. Touch the [Duplex].
- 11. Press the Clear key and use the 10-Key Pad to set the value.
- If width A is wider than the specified range: Enter a negative value.
- If width A is narrower than the specified range: Enter a positive value.

Adjustment range: + 4.0 max. and -4.0 min.

Use the * key to switch between + and -.

12. Produce another test print and check for width A.

Switchback Unit

Duplex Unit/

Troubleshooting

6. Jam Display

6.1 Misfeed display

• When misfeed occurs, message, misfeed location "Blinking" and paper location "Lighting" are displayed on the Touch Panel of the main unit.



Display	Misfeed location	Misfeed access location	Action
[1]	Duplex Unit Take-Up Section Misfeed Turnover Unit/Duplex Unit Transport Section Misfeed	Duplex Unit Door	e 13

6.1.1 Misfeed display resetting procedure

• Open the corresponding door, clear the sheet of paper misfeed, and close the door.

6.2 Sensor layout



6.3 Solution

6.3.1 Initial check items

• When a paper misfeed occurs, first perform the following initial check items.

Check item	Action
Does paper meet product specifications?	Replace paper.
Is the paper curled, wavy, or damp?	Replace paper. Instruct the user on the correct paper storage procedures.
Is a foreign object present along the paper path, or is the paper path deformed or worn?	Clean the paper path and replace if neces- sary.
Are the Paper Separator Fingers dirty, deformed, or worn?	Clean or replace the defective Paper Separa- tor Finger.
Are rolls/rollers dirty, deformed, or worn?	Clean or replace the defective roll/roller.
Are the Edge Guide and Trailing Edge Stop at the correct position to accommodate the paper?	Set as necessary.
Are the actuators operating correctly?	Correct or replace the defective actuator.

6.3.2 Duplex Unit Take-Up Section Misfeed

A. Detection Timing

Туре	Description
Duplex Unit Take-Up Section misfeed detection	The Synchronizing Roller Sensor (PC1) is not blocked even after the set period of time has elapsed after the Duplex Unit Lower Transport Sensor (PC25) is blocked by the paper.
Detection of paper remaining in the Duplex Unit Take-Up Section	The Duplex Unit Lower Transport Sensor (PC25) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or mal- function is reset.

B. Action

Relevant electrical parts			
Synchronizing Roller Sensor (PC1)	Mechanical Control Board (PWB-A)		
Duplex Unit Lower Transport Sensor (PC25)			

		WIRING DIAGRAM		
Step	Operations	Control signal	Location (Electrical components)	
1	Initial checks	-	-	
2	PC1 sensor check	PWB-A PJ11A-5 (ON)	M-8	
3	PC25 sensor check	PWB-A PJ22A-14 (ON)	D-7	
4	Replace PWB-A.	-	-	

6.3.3 Turnover Unit/Duplex Unit Transport Section Misfeed

A. Detection Timing

Туре	Description	
	The Switch Back Unit Sensor (PC26) is not blocked even after the set period of time has elapsed after the Paper Exit Sensor (PC4) is unblocked by the paper.	
Turnover Unit/ Duplex Unit Transport Section	The Duplex Unit Upper Transport Sensor (PC24) is not blocked even after the set period of time has elapsed after the Switch Back Unit Sensor (PC26) is blocked by the paper.	
misfeed detection	The Switch Back Unit Sensor (PC26) is not blocked even after the set period of time has elapsed after the Duplex Unit Upper Transport Sensor (PC24) is blocked by the paper.	
Detection of paper remaining in the	The Switch Back Unit Sensor (PC26) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.	
Duplex Unit Transport Section	The Duplex Unit Upper Transport Sensor (PC24) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or mal- function is reset.	

B. Action

Relevant electrical parts		
Paper Exit Sensor (PC4) Switch Back Unit Sensor (PC26) Duplex Unit Upper Transport Sensor (PC24)	Mechanical Control Board (PWB-A)	

		WIRING DIAGRAM		
Step	Operations	Control signal	Location (Electrical components)	
1	Initial checks	-	-	
2	PC4 sensor check	PWB-A PJ18A-11 (ON)	M-12	
3	PC26 sensor check	PWB-A PJ19A-9 (ON)	M-5	
4	PC24 sensor check	PWB-A PJ20A-5 (ON)	M-16	
5	Replace PWB-A.	-	-	



SERVICE MANUAL

FIELD SERVICE

bizhub 200 / 250 / 350 Standard Controller

2005.08 KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. Ver. 1.0

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General

1. Controller specifications

А. Туре

Туре	Built-in type controller		
Power Requirements	Shared with main unit		
CPU	RM5231		
Program ROM	32 MB		
RAM	192 MB		
HDD	40 GB (Option)		
Host Interface	Standard: Ethernet (100BASE-TX/10BASE-T), USB 1.1/2.0 Option: IEEE1284		
Frame type	Ethernet 802.2 Ethernet 802.3 Ethernet II Ethernet SNAP		
Supported protocols	TCP/IP IPX/SPX NetBEUI AppleTalk (EtherTal	k)	
	bizhub 350	35 pages/minute (Letter)	
Print speed	bizhub 250	25 pages/minute (Letter)	
	bizhub 200	20 pages/minute (Letter)	
	bizhub 350	4.8 seconds or less (Letter)	
Fast print time	bizhub 250 bizhub 200	5.3 seconds or less (Letter)	
Printer language	PCL5e emulation PCL6 (XL 2.1) emulation PostScript 3 emulation		
Operating Environmental Requirements	Temperature 10 to 35 Humidity 15 to 85% RH		
Papalution	Data processing	600 x 600 dpi	
Resolution	Printing	600 x 600 dpi	
Compatible Paper Size	Max. standard pape	er size	
Fonts	PCL: Latin 80 fonts, Postscript 3 emulation: Latin 136 fonts		

B. Supporting client specifications

PC	IBM PC and its compatible		
RAM	32 MB or more		
OS	Windows 98 SE, Windows Me, Windows 2000 (Service Pack 4 or later), Windows XP (Service Pack 2 or later), or Windows NT 4.0 (Service Pack 6a) Mac OS 9.2 or later or Mac OS X 10.2 or Mac OS X 10.3		
Browser	PageScope Web Connection Web browser: Windows 98 SE, Windows Me, or Windows NT 4.0 Microsoft Internet Explorer 4 or later recommended Netscape Navigator 4.73 or 7.0 Windows 2000 Microsoft Internet Explorer 5 or later recommended Netscape Navigator 7.0 Windows XP Microsoft Internet Explorer 6 or later recommended Netscape Navigator 7.0 * If using Microsoft Internet Explorer 5.5, use Service Pack 1 or later		
	Microsoft Internet Explorer 6 or later recommended Netscape Navigator 7.0 * If using Microsoft Internet Explorer 5.5, use Service Pack 1 or later.		

Maintenance

2. Firmware upgrade

2.1 Preparations for Firmware rewriting

2.1.1 Service environment

- · Drive which enables writing/reading of Compact flash
- Compact flash (with 32 MB or more)

2.1.2 Writing into the Compact flash

· Copy the firmware files using the computer.

NOTE

- The copying operation should be performed on the files contained in the folder, instead of the folder.
- Copy only those files to be upgraded to the compact flash.
- If wrong firmware is copied, no screen display is given and thus no firmware can be downloaded.

2.1.3 Checking ROM version

- · Before attempting to upgrade the firmware, check the current ROM version.
- For details of how to display the Tech. Rep. Mode screen, see the Adjustment/Setting of the main unit service manual.

2.2 Firmware rewriting

NOTE

• NEVER attempt to remove or insert the compact flash with the machine power turned ON.







- 1. Turn OFF the main power switch.
- Remove the Compact flash Cover [1].

 Insert the compact flash card [2], in which only the MSC upgrading files have been written, into the slot.

NOTE

• Make sure that this compact flash card contains only the upgrading firmware of the MSC, and not that of the engine or Finisher.

NOTE

- Be sure to turn ON the sub power switch first before turning ON the main power switch.
- 4. Turn ON the main power switch.





- 8. Turn ON the main power switch.
- 9. Call the Tech. Rep. Mode to the screen.
- For details of how to display the Tech. Rep. Mode screen, see the Adjustment/Setting of the main unit service manual.
- 10. Select [ROM Version].
- 11. Make sure if the version of Firmware is updated.

- 5. The firmware upgrading sequence will start.
- When the upgrading sequence is completed, which is notified by the message "FINISH" appearing on the screen, turn OFF the main power switch.

NOTE

- NEVER turn OFF the main power switch until the message "FINISH" appears on the screen.
- 7. Remove the Compact Flash [2] card from the slot.

Troubleshooting

3. Troubleshooting procedures

3.1 Unable to print

No.	Symptom Probable cause		Action
1	The message "No printers are con- nected" or "Print error"	The printer driver selected for printing is not compatible with the printer controller.	Check the printer name selected.
	appears.	The network cable or USB cable is disconnected.	Check that the cable is connected properly.
		An error has occurred in this machine.	Check this machine's control panel.
		Available memory space is not sufficient.	Perform a test print to check whether printing is possible.
2	A postscript error appears.	Available computer memory space is not sufficient.	Perform a test print to check whether printing is possible.
		There is an error in the applica- tion software settings.	Refer to the user's manual of the appli- cation software to check the settings.
		The file printing settings are incorrect.	Change the settings and try to print again.
3	The machine does not start printing although the print job was com- pleted on the com- puter.	The printer driver selected for printing is not compatible with the printer controller.	Check the printer name selected.
		The network cable or USB cable is disconnected.	Check that the cable is connected properly.
		An error has occurred in this machine.	Check this machine's control panel.
		A print job is queued in this machine, delaying printing.	Check the job order on the Active Jobs list of the machine's control panel.
		"Save in User Box" was selected for the print job.	Check if the print job is stored on the Box screen of this machine's control panel.
		"Secure Print" was selected for the print job.	Check if the print job is held on the Secure Print screen of this machine's control panel.
		If the account track settings have been applied, an unregistered account name (or password) may have been entered.	Enter the correct account name (or password).
		If the authentication settings have been applied, an unregis- tered user name (or password) may have been entered.	Enter the correct user name (or pass- word).
		Available computer memory space is not sufficient.	Perform a test print to check whether printing is possible.
		The connection of this machine to the network is not yet estab- lished (while connecting to a net- work).	Consult with the network administrator.
3.2 Unable to specify desired settings or unable to print as specified

No.	Symptom	Probable cause	Action
1	A printer driver setting can- not be selected.	Some functions cannot be com- bined.	Do not try to select settings that are not available.
2	The "Conflicts" message with "Unable to Select" or "Function Canceled" appears.	An incorrect combination of func- tions has been specified.	Check the settings and specify the functions correctly.
3	Printing is not performed	Incorrect settings are specified.	Check each setting in the printer
	as specified.	A combination of functions, although possible in the printer driver, is not possible with this machine.	driver.
		The paper size, orientation, and other settings specified in the application have priority over those specified in the printer driver.	Enter the correct settings in the application.
4	The watermark cannot be printed.	The watermark is not correctly set.	Check the watermark settings.
		The watermark density is set to a level that is too low.	Check the density settings.
		Watermarks cannot be printed in graphics applications.	No watermark can be printed in this case.
5	The staple function cannot be specified.	Stapling is not possible if "Paper Type" is set to "Thick" or "Trans- parency".	Check each setting in the printer driver.
		The staple function requires optional finisher.	Install the required optional fin- isher and enable it using the printer driver.
6	Stapling cannot be per- formed.	Number of pages that can be sta- pled: Up to 50 pages of Letter A4R or smaller plain paper.	Print by specify the number of pages per set for the number of pages that can be stapled.
		Number of pages that can be cen- ter-stapled: Up to 15 pages of plain paper.	
		Stapling is not possible if the doc- ument contains pages of different sizes.	Check the document.
7	The stapling position is not as expected.	The orientation setting is not correct.	Check the stapling position in the printer driver setup dialog box.
8	The hole punch function cannot be specified.	Hole punching cannot be speci- fied if "Booklet", "Transparency", "Thick2", "Thick3", or "Envelope" is selected.	Check each setting in the printer driver.
		For the hole punch function, the punch unit must be installed on optional finisher.	Install the required optional fin- isher and enable it using the printer driver.

No.	Symptom	Probable cause	Action
9	The pages are not punched.	Printed pages may be fed out without being punched if the paper is loaded into the paper source with an incorrect orienta- tion.	Check the orientation setting.
10	The hole punch position is not as expected.	The orientation setting is not cor- rect.	Check the punch position on the Layout tab of the printer driver setup dialog box.
11	The form is not printed properly.	Available computer memory space is not sufficient.	Simplify the form to reduce the data size.
12	The image is not printed properly.	Available computer memory space is not sufficient.	Simplify the image to reduce the data size.
13	Paper is not fed from the specified paper source.	Paper will not be fed from the specified paper source if that paper source is loaded with paper of a different size or orientation.	Load the paper source with paper of the appropriate size and orien- tation.
14	The numbering function is not performed.	The "Collate" (for Windows) or "Collated" (for Mac OS X) check	Clear the "Collate" (for Windows) or "Collated" (for Mac OS X)
15	Proof and Print is no be performed.	box is selected on the print setup dialog box.	check box.

3. Troubleshooting procedures

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SERVICE MANUAL

FIELD SERVICE

FK-503

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General

1. Product specifications

А. Туре

Memory Capacity	32MB		
Communication mode	G3/ECM		
Scanning resolution (main line x feed line)	8 x 3.85 line/mm 8 x 7.7 line/mm 8 x 15.4 line/mm 16 x 15.4 line/mm		
Data speed	G3 / ECM: 2.4 Kbps - 33.6 Kbps		
Transmission time	G3 / ECM: Image signal - 2 sec approx. (V.34 JBIG)		
Coding method	MH / MR / M	IMR / JBIG	
Applicable network	G3/ECM Phone line, FAX communication network, dedicated line		
Options	Stamp Unit SP-501 Fax Multi Line ML-502		

B. Functions

Function		bizhub 350, 250, 200
	High speed scanning	O (0.55 sec/Letter fine)
Speed	High speed printout	O bizhub 350 35 ppm/A4 bizhub 250 25 ppm/A4 bizhub 200 20 ppm/A4
	ECM mode	○ (2 sec approx./Std document)
	High speed half tone	0
-	Super fine mode	0
	Half tone transmission	0
	Auto retransmission after error	O (ECM)
Resolution	Full automatic exposure control	0
	Manual brightness control	O (Only for copy)
	Smoothing	0
	Mixed mode (Text + Photo)	0
	One-touch dialing	O (540 destinations)
	Abbreviated dialing	-
	One-touch program dialing	○ (30)
	Auto re-dialing	0
	Transmission Booking	○ (200)
Operability	Broadcast Destination	○ (300)
	Origination Selecting	O (8 types)
	LCD display	O (320 x 240)
	Operation	O (Analog touch panel)
	Disable copy function	-
	Select auto-mode screen	O (Copy/Fax automatic switch)
	Automatic selection of print paper size	0
	Password communication	0
	Multi polling	-
	Polling at regular times	-
	Nonstorage transmission	0
	Priority transmission	0
	Insert destination	0
Litility functions	Message printing	-
o unty functions	Automatic pause for PSTN number	0
	Display communication result	0
	Record TSI information	0
	ID display/record	O (Received date and time record)
	Power Source saving mode	0
	Switch document reading length (1m/4m)	-
	ADF 2 sided transmission	0

Function		bizhub 350, 250, 200
Activity report (TX/RX)		0
	Transmission report	O (with document merge)
	Incompleted transmission report	O (with document merge)
	Serial broadcast report	O (with document merge)
	Account list	-
Report functions	One-Touch list	0
-	Fax program list	0
	Bulletin Board list	0
	Confidential list	-
	Forwarding list	0
	Setting list	0
	Multi access	0
	Transmission Booking Document	O (200)
	Number	0 (200)
	Retransmission	O (Destination changeable)
	Document retransmission	0
	Reception by memory	0
	Transmission Manage ment Docu- ment Number	○ (200)
	Batch Tx	O (30 destinations)
Memory	Memory polling transmis sion	0
functions	Confidential transmission	
	Confidential print	O (F code)
	Serial broadcast	O (300 destinations)
	Relay broadcast	○ (F code)
	Memory full control	O (Separate Tx)
	Quick memory transmission	0
	File backup	O (12H)
	Rotated Rx	0
	Selective polling	0
	Relay transmission	-
	Extra telephone	O (PB forwarding reception possible)* *PSTN (Port 1 only)
	Account track mode	O (100 sections)
System	Chain dialing	0
Configuration	Multi-port	O (G3 multi-option)
	Hard disk	-
	Inch/mm conversion	0
	Memory	O (32MB)
	ITU-T G4	-
Mutual	ITU-T G4/ECM	0
Connectivity	Facsimile communication network	O (G3)
	Self diagnostics	0
Maintenance	Counter per application	0
	Adjust touch panel resistration	0

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Maintenance

2. Other

2.1 Disassembly/Adjustment prohibited items

- A. Screws to which blue paint or green paint is applied
- Blue paint or green paint is applied to some screws to prevent them from coming loose.
- As a general rule, screws to which blue paint or green paint is applied should not be removed or loosened.
- B. Red-painted screws
- Do not remove or loosen any of the red-painted screws in the field. It should also be noted that, when two or more screws are used for a single part, only one representative screw may be marked with the red paint.
- C. Variable Resistors on Board

NOTE

- Do not turn the variable resistors on boards for which no adjusting instructions are given in Adjustment/Setting.
- D. Removal of PWBs

- When removing a circuit board or other electrical component, refer to "SAFETY AND IMPORTANT WARNING ITEMS" and follow the corresponding removal procedures.
- The removal procedures given in the following omit the removal of connectors and screws securing the circuit board support or circuit board.
- Where it is absolutely necessary to touch the ICs and other electrical components on the board, be sure to ground your body.

2. Other

3. Connection

Connect cables from the phone line and other devices with the system as shown below.



No.	Name	Connect to		Remark
[1]	TEL PORT1	Extra telephone set	Standard	
[2]	LINE PORT1	Phone line (PORT1)	Standard	
[3]	LINE PORT2	Phone line (PORT2)	Option	Option (G3 Multi-port)
[4]	LAN	LAN (PC print option)	Standard	Used in the Scanner & iFAX function
[5]	USB	Printer Controller	Standard	and printer function (printer function only for USB)

4. Disassembly/Reassembly

4.1 FAX Board (with G3 Multi Port option)

- 1. Remove the Upper Rear Cover.
- For details, see Service Manual of the machine.
- 2. Remove the Rear Cover.
- For details, see Service Manual of the machine.



4.2 Spare TX Marker Stamp 2





- 3. Remove three screws [1].
- 4. Unlock the card spacer [2].
- Sliding the Fax Board [4] downward, disconnect the connector [3] and then remove the Fax Board [4].

- 1. Unlock the Top Door of the Automatic Document Feeder [1].
- 2. Open the Top Door [2].
- 3. Open the Processing Guide [3].

4. Using tweezers, pick up and remove the stamp (ink portion) [1].

NOTE

• At reinstallation, align the round protrusion [2] on the stamp with a slit in the TX Marker Stamp 2.







5. Remove the screw [3] and the Guide Plate [4].

6. Disconnect the connector [5] and remove the hookup harness [6].

NOTE

- At reinstallation, use care not to allow the hookup harness to ride over the rib [7].
- Remove the screw [8], disconnect the connector [9], and remove TX Marker Stamp 2 [10].

NOTE

 Make sure that this step is performed only after the stamp (ink portion) has been removed.

4.3 Ni-MH battery Replacement

1. Check on the screen that the memory capacity still available for use reads 100%.

NOTE

- If the memory capacity does not read 100%, let the machine output contents of the memory or wait until the machine completes transmission.
- 2. Turn OFF the Main Power Switch.
- 3. Remove the Upper Rear Cover.
- For details, see Service Manual of the machine.





6. Turn ON the Main Power Switch.

NOTE

- After the Ni-MH battery has been replaced with a new one, be sure to turn ON the Main Power Switch.
- Discard the used battery in accordance with the corresponding local regulations and NEVER discard it or let it discharge on the user's premises.

4. Unplug one connectors (CN10) [11] of the MFB3 Board.

5. Tie band [2] is cut with nippers, and the Ni-MH battery [3] is replace.

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Adjustment/Setting

5. How to use the adjustment section

- "Adjustment/Setting" contains detailed information on the adjustment items and procedures for this machine.
- Throughout this "Adjustment/Setting," the default settings are indicated by " ".

Advance Checks

Before attempting to solve the customer problem, the following advance checks must be made. Check to see if:

- The power supply voltage meets the specifications.
- The power supply is properly grounded.
- The machine shares the power supply with any other machine that draws large current intermittently (e.g., elevator and air conditioner that generate electric noise).
- The installation site is environmentally appropriate: high temperature, high humidity, direct sunlight, ventilation, etc.; levelness of the installation site.
- The original has a problem that may cause a defective image.
- The density is properly selected.
- The Original Glass, slit glass, or related part is dirty.
- Correct paper is being used for printing.
- The units, parts, and supplies used for printing (developer, PC Drum, etc.) are properly replenished and replaced when they reach the end of their useful service life.
- Toner is not running out.

- To unplug the power cord of the machine before starting the service job procedures.
- If it is unavoidably necessary to service the machine with its power turned ON, use utmost care not to be caught in the Scanner Cables or gears of the Exposure Unit.
- Special care should be used when handling the Fusing Unit which can be extremely hot.
- The Developing Unit has a strong magnetic field. Keep watches and measuring instruments away from it.
- Take care not to damage the PC Drum with a tool or similar device.
- Do not touch IC pins with bare hands.

6. Utility/Counter Mode

6.1 Utility/Counter Mode function tree

• The function tree is shown to comply with the format displayed on the screen.

NOTE

• The following function tree shows only the fax-related functions.





4040F3E559DA

NOTE

· Keys displayed on screens are different depending on the setting.

6.2 Utility/Counter Mode function setting procedure

6.2.1 Procedure

- 1. Press the Utility/Counter key.
- 2. The Utility/Counter mode screen will appear.

Utility/Counter	Enter	
User Setting User Management,	Total Counter 3333333	
Admin. Management, Reports	Total Copy Counter	
Printer Setting	Total Copy Size	
	Check Detail	
	Memory100% Free	
		4040F3E560DA

6.2.2 Exiting

• Touch the [Enter] key.

6.2.3 Changing the setting value in Utility Mode functions

- Use the +/- key to enter or change the setting value.
- Use the 10-Key Pad to enter the setting value. (To change the setting value, first press the Clear key before making an entry.)

Г

6.3 Settings in the User Setting

NOTE

• Only the fax-related functions will be described for User Setting.

6.3.1 User's Choice 5/6

A. Output Tray Settings

(1) Faxes/Prints

Functions	 To set the output bin in each of different applications when a finishing option is mounted. Different contents of display are given depending on the type of option mounted. 			
Use	When changing the finishing tray during reception of fax or computer printouts.			computer printouts.
Setting/ Procedure	<port 1=""> The default setting </port>	g is "1".		
	"1"	2	(3)	
	<port 2=""> The default setting </port>	g is "1".		
	"1"	2	(3)	
	<faxes prints=""> The default setting </faxes>	g is "1".		
	"1"	2	(3)	

6.3.2 User's Choice 6/6

A. Default Screen

(1) Default LCD Screen

Functions	To set the default screen that is preferentially selected upon auto clear or similar event.			
Use	 When changing the default screen that is preferentially selected upon auto clear or sim- ilar event. 			
Setting/	The default setting	is "Copy".		
Procedure	"Copy"	FAX	Scanner	FAX/Copy Auto

(2) Default FAX Screen

Functions	To set the default screen that is preferentially selected when the fax is selected.			
Use	 When changing the default screen that is preferentially selected when the fax is selected. 			
Setting/	The default setting is "	One-Touch".		
Procedure	"One-Touch"	Search	Direct Input	Index

6.3.3 FAX

A. One-Touch

Functions Use	 To store a destination in a one-touch dial key or change or delete one that has previously been stored as one-touch dial.
Setting/ Procedure	 Up to a total of 540 different destinations can be stored, each screen containing 15. Touch the [One-Touch]. Select the specific key, in which a destination is to be stored or for which a previously stored destination is to be modified or deleted. Make the necessary settings.

B. Index

Functions	To group one touch dials into different index keys
Use	• To group one-touch dials into different index keys.
Setting/ Procedure	There are a total of 36 index keys.

C. FAX Program

Functions Use	 To store functions to be used during communications together with the destination information. It is necessary to store in advance the one-touch dial or abbreviated dial before storing this function.
Setting/ Procedure	Up to 30 programs can be set.

D. Domain Name

Functions	 To set part of the address in advance as address input support.
Use	 When it is required that address input be made swiftly
Setting/ Procedure	 Touch the [Domain Name]. Touch the key, for which Domain Name is to be stored or modified. Type the characters (up to 64 en-size characters) and touch [Enter].

E. Bulletin

Functions	To make settings necessary for setting up a bulletin board
Use	· To make settings necessary for setting up a bulletin board.
Setting/ Procedure	 Touch the [Bulletin]. Touch the number of the bulletin board to be stored, or modified or deleted. Make the necessary settings.

F. Conf. Box

Functions	To register a private box in which a fax message with an E-CODE is to be stored
Use	
Setting/ Procedure	 Touch the [Conf. Box]. Select the specific key, in which a private box is to be set or in which previously stored private box information is to be modified or the private box itself is to be deleted. Make the necessary settings.

6.4 Settings in the User Management

6.4.1 Line Monitor Sound

Functions	• To set the volume of the line monitor sound that can be heard from the monitor speaker
Use	during fax transmission.
Setting/	The default setting is "3".
Procedure	0 (mute) to 5

6.4.2 Memory RX ON/OFF

Functions	 To allow the machine to produce a print temporarily even in the off mode.
Use	 A print control password is necessary to print data.
Setting/	1. Touch the [Memory RX ON/OFF].
Procedure	Type the 4-digit password (default value: 1111) and touch [Enter].
	3. Touch the [Lock OFF].
	4. To halt the print cycle, touch [Lock ON] and then [Enter] while the print cycle is being
	run.
	5. Touch [Temporarily Print] to resume the print cycle.

6.4.3 POP3 RX

Functions	To check recention from the POP3 server
Use	
Setting/ Procedure	1. Touch the [POP3 RX].

6.5 Settings in the Admin. Management

• The Admin. Management will be available by entering the administrator password (8 digits) set by the Admin. Set . (The administrator password is initially set to "0000000")

6.5.1 Initial Setting

A. Date & Time Setting

Functions	• To set time and date for the fax machine.			
Use	 When setting or changing the time and date set for the fax machine. 			
Setting/ Procedure	 Enter the day, month, and year, and time-of-day from the 10-Key Pad. Touch [Enter] to start the clock. 			

B. Language for Communication

Functions	 To set the language used with the fax machine. 			
Use	 To change the language used with the fax machine. 			
Setting/	The default setting is "English".			
FIOCEGUIE	Japanese "English"			

C. Self-Telephone # information

Functions Use	• To register information required for fax communication, including the telephone number of the local fax machine, whether or not a PBX is available, and the type of line.
Setting/ Procedure	 Touch the [PBX Connection Mode]. Touch [Self-telephone #] and enter the telephone number. Touch the [PBX Connection Mode]. [Extension]: If a connection is made via the PBX to the ordinary fixed line [Outside]: If a connection is made directly to the ordinary fixed line * If [Extension] is selected, enter the Outside Line Access Code. * Touch the [Dial Method]. [DP20]: 20 pps pulse dialing line [DP10]: 10 pps pulse dialing line [PB]: Tone dialing line

D. TSI Registration

Functions	 To set the name (of the sending party) to be notified to the recipient.
Use	 When changing the name (of the sending party) to be notified to the recipient.
Setting/ Procedure	 Up to eight different names can be registered. Touch the [TSI Registration]. Select the number, for which the sending party is to be registered. Enter the name of the sending party and touch [Enter].

E. Self-ID

Functions	 To register the name, telephone number, and other information of the local machine as an ID.
Use	 When the ID is to be printed on journals and displayed on the panel of the fax machine on the receiving end.
Setting/ Procedure	 Touch the [Self-ID]. Enter the local machine ID (up to 12 en-size characters) and touch [Enter].

6.5.2 Admin. Set

A. Restrict One-Touch Editing

Functions	To restrict the user from registering or modifying one touch dials			
Use				
Setting/	The default setting is "OFF".			
Procedure	ON "OFF"			

6.5.3 TX Settings

A. Quality/Mode

(1) Default Density

Functions	 To set the default image quality selected during transmission. 			
Use	 To change the default image quality selected during transmission. 			
Setting/ Procedure	The default setting is	"Standard".		
Tioccure	"Standard" Text/Photo	Fine GSR	SuperFine Super GSR	

(2) Default Density

Functions	 To set the default image density selected during transmission. 			
Use	 To change the default image density selected during transmission. 			
Setting/ Procedure	 The default setting is "Std." Setting range: 5 steps 			
	Light to Std. to Dark			

(3) Communication Mode

Functions	To set the communication mode established during transmission.					
Use	To cha	To change the communication mode established during transmission.				
Setting/ Procedure	<fax></fax>	G3-1 et FAX>	G3-2	IP Relay		
	<pc></pc>	E-Mail	Scanner			

B. Comm. Menu

(1) TX

Functions	To set the type of transmission to be made.			
Use	 To change the type of transmission to be made. 			
Setting/	The default setting is "Memory TX".			
FIOCEDUIE	"Memory TX" Quick Scan TX			

(2) TSI

Functions	• To set where the name of the sending party is to be printed on the transmitted text, and select the specific name to be printed.
Use	 When having the name of the sending party printed on the transmitted text.
Setting/ Procedure	<tx information="" time=""> Inside Body Text Outside Body TextOFF</tx>
	<tsi selection=""> To select the specific name of the sending party to be printed. </tsi>

(3) Rotation TX

Functions	 To select whether to turn ON or OFF rotation transmission.
Use	 When rotation transmission is to be made
Setting/ Procedure	The default setting is "ON".
	"ON" OFF

(4) 2-Sided TX

Functions	 To set the file margin of the original for 2-sided transmission. 			
Use	 When changing the file margin of the original for 2-sided transmission. 			
Setting/ Procedure	The default setting is "O	FF".		
	2-Sided TX:	ON	"OFF"	
	Original Bind Direction:	Left Bind	Top Bind	"Auto"

6.5.4 RX Settings

A. Memory RX Time Setting

(1) Memory Lock Time

Functions	• To set the time of day and the day of the week, at which printing of the received fax is to be started or stopped.
Use	 When a received fax is to be printed at a specific time specified without allowing it to be printed on the spot
Setting/	1. Touch the [Memory RX Time Setting].
Procedure	2. Touch the [Memory Lock Time].
	Make the necessary settings and touch [Enter].
	* Touch [OFF] if no settings are to be made.

(2) Memory Lock Password

Functions	To set a password used for printing a fex received at a time not execting
Use	• To set a password used for printing a fax received at a time not specified.
Setting/ Procedure	 The default setting is "0000". Touch the [Memory RX Time Setting]. Touch the [Memory Lock Password]. Touch [Password], then enter the password and touch [Enter]. Touch [Confirm New Password], then enter the password a second time and touch [Enter].

B. Confidential RX User Box Delete

Functions	 To delete a private box that has previously been registered.
Use	When deleting a private box.
Setting/ Procedure	 Touch the [Confidential RX User Box Delete]. Select the private box to be deleted. Touch the [Yes].

6.5.5 FAX Setting

A. RX Functions

(1) Reception Mode

Functions	To set the reception mode of faxes.	
Use	 When changing the reception mode of faxes. 	
Setting/ Procedure	The default setting is "Auto".	
	"Auto" Manual	

(2) Numbers of RX Call Rings

Functions	 To set the number of call rings heard before automatic reception is activated.
Use	When changing the number of call rings heard before automatic reception is activated
Setting/ Procedure	 The default setting is "1x". 1 to 20 * Setting range when the optional handset is mounted: 0 to 20 rings

B. Password Communication

(1) Communication Password

Functions	 To allow a fax to be received only when there is a match in the password that has previously been registered on the transmitter and receiver ends. 		
Use	When using password reception		
Setting/	The default setting is "00".		
Fiocedule	"00" (Disabled) 01 to 99 (Enabled)		

6.5.6 Print Lists

A. Setting List

Functions	To print information concerning the initial settings of the machine
Use	
Setting/ Procedure	 Touch the [Print Lists]. Touch the [Setting List]. The setting list is printed.

6.5.7 Report Settings

A. TX Report

Functions	To set the mode of output of the report used for confirming results of transmission.			
Use	 When changing the mode of output of the report used for confirming results of transmission Setting is made individually for a single destination and two or more destinations. 			
Setting/ Procedure	<single dest=""> ON</single>	"If TX Fails"	OFF	
	<broadcasting> ON</broadcasting>	"If TX Fails"	OFF	

B. Activity Report

Functions	 To select whether or not to print the activity report for every 50 transactions automati- cally.
Use	 When printing the activity report for every 50 transactions automatically.
Setting/ Procedure	The default setting is "ON". "ON" OFF

6.5.8 Document Management

A. TX Document

(1) TX Forwarding

Functions	• To set to forward received text to a destination that has been set by the administrator.
Use	When forwarding received text to a destination that has been set by the administrator
Setting/ Procedure	 Touch the [Document Management]. Touch the [TX Document]. Touch the [TX Forwarding]. Specify the destination to which the received fax is to be forwarded and touch [Enter]. [One-Touch]: To specify the destination by the one-touch dial [Search]: To search through one-touch dials

B. RX Document

(1) F-CODE

Functions	To set to receive text for every F-CODE
Use	 When setting to receive text for every F-CODE
Setting/ Procedure	 Touch the [RX Document]. Touch the [F-CODE]. Select the specific key, in which the F-CODE is to be registered. Touch [F-CODE] and make the necessary settings. Touch [RX Doc. Settings], then select the desired processing type and touch [Enter]. If [Forward] or [Print & Forward] is selected, set the forwarding destination.

(2) Port

Functions	• To set how text received for each line is processed, whether it is to be printed, for- warded, etc.
Use	When printing, forwarding, or otherwise processing text received for each line.
Setting/ Procedure	 Touch the [RX Document]. Touch the [Port]. Select [G3-1] or [G3-2]. If [Yes] is selected for [Document Management], set how the received document is to be handled. Touch [RX Doc. Settings], then select the desired processing type and touch [Enter]. * If [Forward] or [Print & Forward] is selected, set the forwarding destination.

(3) All Other Documents

Functions	 To set how text received from a line other than the port is processed.
Use	 When setting how text received from a line other than the port is processed.
Setting/ Procedure	 Touch the [RX Document]. Touch the [All Other Documents]. Touch [RX Doc. Settings], then select the desired processing type and touch [Enter]. If [Forward] or [Print & Forward] is selected, set the forwarding destination.

6.6 Settings in the Repoerts

6.6.1 Program List

Functions	To print the contents of programs stored in one touch kove
Use	
Setting/ Procedure	 Press the Utility/Counter Key. Touch the [Repoerts]. Touch the [Program List]. A program list will be printed.

6.6.2 Bulletin List

Functions	To print a list of text stored in the bulletin board
Use	
Setting/ Procedure	Press the Utility/Counter Key. Touch the [Reports]. Touch the [Reports].
	 A bulletin list will be printed.

6.6.3 Confidential List

Functions	• To print the contents of the private box	
Use		
Setting/	1. Press the Utility/Counter Key.	
Procedure	2. Touch the [Repoerts].	
	3. Touch the [Confidential List].	
	4. A confidential list will be printed.	

7. Initial Mode

7.1 Initial Mode Function Setting Procedure

- 1. Press the Warm Restart switch, and "●" appears at the center on the left end of the screen.
- 2. Enter "3" from the 10-Key Pad.
- 3. Type the 8-digit service code and touch [Enter]. (Default value: 00000000)

NOTE

- When [END] is touched after a wrong service code has been entered, the Basic screen reappears.
- At the fourth access after entries of three wrong access codes, [END] is not available on the screen. It is therefore necessary to turn OFF and ON the Main Power Switch.
- If you forget the service code, it becomes necessary to replace the RAMS Board with a new one. Take necessary steps not to forget the service code.
- The RAMS Board is not available as a replacement part. If it requires replacement, contact Office Printing Support Division by way of CSES.
- 4. Select a function.

Initial	Exit	
Total Clear Total Counter Clear Image Data Clear Data/ Time Setting	Touch Panel Adjustment Marketing Area	
Trouble Reset		4040F3E565DA

7.1.1 Exiting

Touch [Exit].

7.2 Initial Mode Function Tree

NOTE

• Of the Initial mode functions, only those related to the fax machine will be described in the following.

Initial Mode Clear FAX Setting	
--------------------------------	--

4040F3E561DA

=K-503

7.3 Settings in the Initial Mode

7.3.1 Clear FAX Setting

Functions	Clears the FAX-related settings.	
Use	 Own Setting: To clear data relating to the local machine. Destination: To clear data relating to destinations, including the telephone directory and one-touch dials. Activity: To clear activity report information. Soft Switch: To clear settings made with soft switches. 	
Setting/ Procedure	 Touch the [Clear FAX Setting]. Select the item, in which the settings are to be cleared, and touch [END]. (Two or more items can be selected.) Select [Yes] and touch [Enter]. 	

8. Maintenance Mode

8.1 Maintenance Mode Function Setting Procedure

A. Procedure

- 1. Press the Utility/Counter key.
- 2. Touch [Check Detail].
- 3. Press the following keys in this order. Stop $\rightarrow 0 \rightarrow 0 \rightarrow \text{Stop} \rightarrow 0 \rightarrow 2$
- 4. Touch [Maintenance Mode].
- 5. Type the 8-digit service code and touch [Enter]. (Default value: 00000000)

NOTE

- When [END] is touched after a wrong service code has been entered, the Basic screen reappears.
- At the fourth access after entries of three wrong access codes, [END] is not available on the screen. It is therefore necessary to turn OFF and ON the Main Power Switch.
- If you forget the service code, it becomes necessary to replace the RAMS Board with a new one. Take necessary steps not to forget the service code.
- The RAMS Board is not available as a replacement part. If it requires replacement, contact Office Printing Support Division by way of CSES.
- 6. The Maintenance Mode menu will appear.

Mem. contents Memory Dump File Display File Dump Soft Switch Set Touch Panel Protocol Trace Service Call Memory100%	Maintenance Mode	Exit
File Display File Dump Soft Switch Set Joych Panel Protocol Trace Service Call Memory100%	Mem. contents	Memory Dump
Soft Switch Set Jack Panel Protocol Trace Service Call Memory 100%	File Display	File Dump
Protocol Trace Report Memory Free V100%	Soft Switch Set	Adjustment
Memory100%	Protocol Trace	Service Call Report
Hemory100%		
		Memory100% Free

NOTE

To change the service code, see "Service Security Mode."

B. Exiting

Touch the [Exit] key.

NOTE

• The Maintenance mode is not disclosed to users. After the job is completed, therefore, be sure to exit the mode by turning OFF and ON the Main Power Switch.
8.2 Maintenance Mode function tree

NOTE

• Of the Maintenance mode functions, only those related to the fax machine will be described in the following.

Maintenance Mode	Mem. contents
	Memory Dump
	File Display
	File Dump
	Soft Switch Set
	Touch Panel Adjustment
	Protocol Trace
	Service Call Report

4040F3E563DA

8.3 Settings in the Maintenance Mode

8.3.1 Mem. contents

Functions	 This displays the RAM data of MAIN-CPU on the LCD by specifying its absolute
Use	address which will be provided by our technical department.
Setting/ Procedure	 Call the Maintenance Mode to the screen. Touch the [Mem. contents]. Type the absolute address from the 10-Key Pad and [A] to [F] and touch [Enter]. Touch [↑] or [↓] to change the address to be displayed. Touch [Enter] twice.

8.3.2 Memory Dump

Functions	This outputs a report on the RAM data of MAIN-CPU by specifying its absolute addre	
Use	which will be provided by our technical department.	
Setting/	1. Call the Maintenance Mode to the screen.	
Procedure	2. Touch the [Memory Dump].	
	3. Touch the [Address].	
	4. Type the absolute address from the 10-Key Pad and [A] to [F] and touch [Enter].	
	5. Touch the [Length].	
	6. Type the absolute address from the 10-Key Pad and [A] to [F] and touch [Enter].	
	7. Touch [Enter], and the memory dump sequence is started.	

8.3.3 File Display

Functions	This displays the RAM data of MAIN-CRU on the LCD by specifying its file name		
Use	- This displays the train data of Many-or O of the LOD by specifying its me find the.		
Setting/ Procedure	 Call the Maintenance Mode to the screen. Touch the [File Display]. Type the file name from the 10-Key Pad or the keyboard on the screen and touch [Enter]. Touch [↑] or [↓] to change the address to be displayed. Touch the [Enter]. 		

8.3.4 File Dump

Functions	This outputs a report on the RAM data of MAIN CRUby specifying its file name		
Use	• This outputs a report on the RAW data of MAIN-CPO by specifying its me name.		
Setting/	1. Call the Maintenance Mode to the screen.		
Procedure	2. Touch the [File Dump].		
	3. Type the file name from the 10-Key Pad or the keyboard on the screen and touch		
	[Enter].		
	4. Touch $[\uparrow]$ or $[\downarrow]$ to change the address to be displayed.		
	5. Touch [Enter], and the file dump sequence is started.		
	·		

8.3.5 Soft Switch Set

Functions	This sate up the soft switches for maintenance			
Use	• This sets up the solt switches for maintenance.			
Setting/	1. Call the Maintenance Mode to the screen.			
Procedure	2. Touch the [Mode Select].			
	3. Enter the mode number (a 3-digit numeral) from the 10-Key Pad.			
	4. Touch the [Bit Select].			
	 5. Align the cursor using [←] or [→] and define the bit using 0 or 1 of the 10-Key Pad. (To set using hexadecimal numbers, touch [HEX Selection] and enter the data using the 10-Key Pad and A to F keys.) 6. Touch [Enter] twice. 			

8.3.6 Touch Panel Adjustment

Functions	To adjust the position of the Touch Panel.		
Use	When the Touch Panel is slow to respond when touched		
Setting/ Procedure	 Call the Maintenance Mode to the screen. Touch the [Touch Panel Adjustment]. Following the arrow, sequentially press four points (+) on the screen using a pen or similar object. NOTE Press the very center of each point. Use care not to allow the tip of the pen to damage the surface of the screen. 		

8.3.7 Protocol Trace

Functions	To produce an output of a protocol trace	
Use		
Setting/ Procedure	 Call the Maintenance Mode to the screen. Touch the [Protocol Trace]. 	

8.3.8 Service Call Report

Functions	To produce an output of a service call report	
Use		
Setting/ Procedure	 Call the Maintenance Mode to the screen. Touch the [Service Call Report]. 	

9. Tech. Rep. Mode

9.1 Tech. Rep. Mode function setting procedure

NOTE

 Ensure appropriate security for Service mode function setting procedures. They should NEVER be shown to any unauthorized person not involved with service jobs.

A. Procedure

- 1. Press the Utility/Counter key.
- 2. Touch [Check Detail].
- 3. Press the following keys in this order. Stop $\rightarrow 0 \rightarrow 0 \rightarrow$ Stop $\rightarrow 0 \rightarrow 1$
- 4. Enter the 8-digit service code and touch [END]. (Default value: 00000000)

NOTE

- When [END] is touched after a wrong service code has been entered, the Basic screen reappears.
- At the fourth access after entries of three wrong access codes, [END] is not available on the screen. It is therefore necessary to turn OFF and ON the Main Power Switch.
- If you forget the service code, it becomes necessary to replace the RAMS Board with a new one. Take necessary steps not to forget the service code.
- The RAMS Board is not available as a replacement part. If it requires replacement, contact Office Printing Support Division by way of CSES.

Tech. Rep. Mode	Exit
Tech. Rep. Choice	System Input
Administrator #	Counter
Function	1/0 Check
Operation Check	CS Remote Care
ROM Version	Level History
FAX Set	Soft Switch Settings

5. The Tech. Rep. Mode menu will appear.

NOTE

• To change the service code, see "Service Security Mode."

B. Exiting

Touch the [Exit] key.

C. Changing the Setting Value in Service Mode Functions

- Use the +/- key to enter or change the setting value.
- Use the 10-Key Pad to enter the setting value. (To change the setting value, first press the Clear key before making an entry.)

9.2 Tech. Rep. Mode function tree

NOTE

• Of the Tech. rep. mode functions, only those related to the fax machine will be described in the following.



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9.3 Settings in the Tech. Rep. Choice

9.3.1 Country Set

Functions Use	 To set the default value The function becomes a be marketed in Europe 	for each country fo available on the scr or Others and that	or communications een to choose only is equipped with th	related choice functions. / for the machine that is to ne optional fax function.
Setting/ Procedure	Select the applicable co	ountry.		
	GermanyFrance	U.K.	Italy	Austria
	Swiss Belgium	Holland	Spain	Portugal
	DenmarkNorway Hungary Poland	Sweden	Finland	Czech
	<for others=""></for>			
	South AfricaAustralia ArgentinaKorea other 2	Hong Kong Taiwan	Singapore other 1	New ZealandMalaysia

9.4 Settings in the System Input

9.4.1 Machine Configuration

Functions	Displays the machine configuration status.
Use	 The machine configuration status is displayed as Yes or No.
Setting/ Procedure	 Call the Tech. Rep. Mode to the screen. Touch [System Input] and [Machine Configuration], in that order.

9.5 Settings in the Counter

9.5.1 Checking the counter reading

- 1. Call the Tech. Rep. Mode to the screen.
- 2. Touch the [Counter].
- 3. Touch [Check] and the specific counter key whose reading is to be checked.

9.5.2 Clearing readings of all counters at once

- 1. Call the Tech. Rep. Mode to the screen.
- 2. Touch the [Counter].
- 3. Touch the [Counter Reset].
- 4. Touch the counter keys to be cleared and then touch [OK].

9.5.3 Clearing the reading of a specific counter

- 1. Call the Tech. Rep. Mode to the screen.
- 2. Touch the [Counter].
- 3. Touch the specific counter key to be cleared and press the Clear key. If the reading of a wrong counter key has been cleared, press the Interrupt key to undo the clearing operation.

9.5.4 Application Counter

Functions	To display or clear the readings of application counters.
Use	 Copy: Number of copies made Printer: Number of printed pages produced via computer List Print: Number of printed pages of lists Fax Print: Number of printed pages received as fax and mail Fax Transmission: Number of pages of fax transmitted Mail Transmission: Number of pages transmitted by fax/scanner
Setting/ Procedure	Checking the counter reading 32 Clearing the counter reading (all and a specific one) 32

9.5.5 Fax Connection Error

Functions	• To display or clear the count of the number of errors occurred during fax transmission.
Use	Transmission Error: Counts fax transmission errors Receive Error: To count fax reception errors
Setting/ Procedure	Checking the counter reading 32 Clearing the counter reading (all and a specific one) 32

9.6 Settings in the Function

9.6.1 F7-2

Functions	 To automatically adjust the Original Size Detecting Sensor. (only for a FAX) 		
Use	When the Original Size Detecting Sensor is replacedWhen an optional sensor is mounted		
Setting/ Procedure	 From the Tech. Rep. mode menu, touch [Function] and [F7-2], in that order. Place fives sheets of A3 paper, one on top of another, on the Original Glass and lower the Original Cover. Press the Start key to let the machine start the adjustment procedure. The adjustment procedure is automatically terminated as soon as the required adjust- ment has been made. 		

9.7 Settings in the FAX Set

9.7.1 Service Call Set

• When a set condition takes place, the status of the machine is automatically notified to the call center.

A. Maintenance Date/Toner Type

Functions	To set the maintenance date and type of tener	
Use	· To set the maintenance date and type of tonet.	
Setting/ Procedure	<toner type=""> • The default setting is "14k".</toner>	
	5k "14k"	
	<maintenance date=""> • Enter [Year], [Month], and [Day].</maintenance>	

B. Service Destination

Functions	
T unctions	 To set the telephone number and communication mode.
Use	
Setting/ Procedure	 Touch [Service Destination] and enter the telephone number of address (up to 64 digits can be entered). Touch [Change Comm. Mode] and select the communication mode. [FAX]: G3-1, G3-2 [InternetFAX]: InternetFAX [PC]: E-Mail

C. TX Condition

(1) Prints

Functions	Sorvice call for exceeding specified number of papers		
Use	- Dervice can for exceeding specified number of papers.		
Setting/ Procedure	The default setting is "ON".		
	"ON" OFF		

(2) Toner Empty

Functions	Service call for empty toper		
Use			
Setting/	The default setting is "ON".		
Procedure	"ON" OFF		

(3) Drum Life

Functions	Service call for reaching life cycle of drum.		
Use			
Setting/ Procedure	The default setting is "ON".		
	"ON" OFF		

(4) Malfunction

Functions	To set whether or not to make a service call when a machine failure occurs.		
Use			
Setting/ Procedure	The default setting is "ON".		
	"ON" OFF		

D. Transmission Method

Functions	•	To set the transmission method.		
Use	•	When changing the transmission method		
Setting/ Procedure	•	The default setting is "Da Report	ta". "Data"	E-Mail
	•	Select [Report] for fax transmission.	nsmission, [Data] f	or data transmission, and [E-Mail] for e-mail

E. Service FAX Number

Functions	Enters the Fax number on a report when a patification to the call conter fails
Use	
Setting/ Procedure	1. Touch [Service FAX Number] and enter the telephone number.

F. Contact Number

Functions	Enters the information call number on a report when a notification to the call center
Use	fails.
Setting/ Procedure	1. Touch [Contact Number] and enter the telephone number.

G. User System Code

Functions	Mome screen, on which to record user system identification information
Use	
Setting/ Procedure	 Touch the [Fwd]. Touch [User System Code] and then enter the code.

9.7.2 Terminal TX

Functions	You can receive data on the one touch dial or send the data stored in the system to the
Use	call center.
Setting/ Procedure	 Touch the [Terminal TX]. Set [Function ID Code] and [Extended ID Code] and touch [Execute].

9.7.3 Stamp

Functions	Used to indicate when the TX marker option is installed.		
Use	When the TX marker option is mounted		
Setting/ Procedure	The default setting is "YES".		
	"YES" NO		

10. Fax-related Adjustment Items

10.1 CD/FD Zoom Ratio Correction (Fax)

· Factory adjustment items

NOTE

• This mode is for factory adjustment only and should NOT be used.

11. Soft Switch List

11.1 Soft Switches Disclosed to Users (Screen Setting)





Continued to next page Continued to next page





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Adjustment / Setting

-Admin. Management Admin.2	
Network Set	
DHCP (Auto-Obtain/ <u>IP Input)</u>	MODE 355 Bit 4
- IP Address	
Subnet Mask	
Self-domain Name	
Network Board Set	
Network Board Speed (<u>Auto</u> /100M/10M) Durlay: (Leif Durlay)	MODE 355 Bit 7, 6
Duplex (<u>Hair Duplex</u> /Full Duplex)	WODE 355 Bit 5
DNS Settings (Yes/ <u>No</u>)	MODE 361 Bit 0
Host Name Domain Name DNS Server Address DNS Server Address	
SMTP Setting	
SMTP Server Address	
- E-mail Address	
SMTP AUTH User Name SMTP AUTH Password	
POP3 Settings	
POP3 Server Address	
POP3 User Name	
POP3 Password	
(Check OFF/1 to 99 Minutes)	
- Mail/Scan Setting	
-E-mail Mode	
TX Size (Max.) (Letter/Legal/ <u>11x17</u>)	MODE 350 Bit 5, 4
TX Quality (Max.)	MODE 350 Bit 3, 2
Coding Method (<u>MH</u> /MR/MMR)	MODE 360 Bit 6 to 4
Scan Mode	
-File Format (<u>TIFF</u> /PDF)	MODE 360 Bit 1, 0 MODE 360 Bit 3 2
Coding Method (<u>MH</u> /MMR)	MODE 359 Bit 6 to 4
* *	

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11.2 List of Defaults

MODE	HEX (For U.S.)	HEX (For Europe)	Remark
000	30	30	TX Marker, TSI, Password, Memory TX *
001	14	14	FAX quality, Density, Dest. Insert *
002	A8	A8	Report *
003	63	63	Line monitor, Report of broadcast transmissions *
004	16	16	Memory time *
005	10	20	# of redialing *
006	32	32	DP speed, PB switch, PSTN Port auto selection
007	B9	B5	Print range *
008	00	00	Select print paper *
009	1A	1A	Communication mode *
010	20	20	(Undefined)
011	31	31	DP speed, PB switch *
012	40	40	# key on one-touch screen
013	35	35	Auto-mode screen, Operation when INBOX forward failed
014	01	01	Redialing interval *
015	00	00	(Undefined)
016	40	40	RX Time Stamp, Extra telephone
017	C0	C0	Select initial value of TSI *
018	01	01	Destination displaying screen *
019	08	08	Ringer detection counts (PSTN 1) *
020	40	40	Display report
021	08	08	Display symbol rate
022	02	02	FAX memory nearly full capacity
023	F8	F8	Set merge for report image, E-mail error retransmission
024	81	81	Display forward function button, Display caller ID, Receiving by other users
025	7F	7F	Various service calls
026	DE	DE	Service call, Remote maintenance
027	24	24	Display ID, Display button, Secured comm., F code
028	63	63	Remote print protocol, # of remote multi-copies
029	00	00	(Undefined)
030	B1	B0	Rotation TX, Rotate print, 2in1, print paper selection restriction *
031	A0	A0	Margins for multi-sheet report image, Margins for output format of report image *
032	35	21	FAX photo/txt mixed mode
033	14	14	Draft printing mode and level *
034	02	02	Cut print paper leading edge, Overlapped printing
035	03	03	RX by memory
036	01	01	Receiving (remote copy) printing order *
037	F8	F8	Select FAX print paper cassette

٦

	HEX	HEX	
MODE	(For	_(For	Remark
	U.S.)	Europe)	
038	0A	UA 20	Turn on print lamp for out-of print paper, Print stop/start *
039	00	00	
040	FA	FA	2-dim coding, T.6 coding, JBIG, V34JBIG
041	40	40	
042	3⊦	3+	Redialing interval *
043	80	80	# of resending doc., Redialing non-answered call
044	80	80	RTN sending error, Action against abnormal overseas communications, T4
045	D4	D4	(Indefined)
046	00	00	(Undefined)
040	88	88	
047	00	00	
040	00	00	
049			
050	00	00	Iransmission speed upper limit (KX)
051	20	20	Declare RX print paper size
052	00	00	(Undefined)
053	C8	C8	Sender's character code size
054	7A	7A	History control of V.34 auto dialing, Demodulation method
055	02	02	(Undefined)
056	0C	0C	F code function
057	19	19	Time that ANSam TX starts after line is blocked
058	3C	3C	(Undefined)
076	14	14	
077	60	60	Hook monitoring counts
078	00	00	(Undefined)
079	02	02	(Undefined)
080	23	6E	Estimated time of line connection (PSTN1)
081	00	00	(Undefined)
082	04	24	Detect busy tone. Detect line disconnection (inverted polarity) (PSTN1)
083	50	50	Hook monitoring cycle. Hook detection voltage (PSTN1)
084	14	28	PR sending lever (PSTN1)
085	90	C0	
086	40	40	RX attenuator (PSTN1)
087	90	90	Detect continuous ringer, Ringer detection frequency (PSTN1)
088	00 C0		Process detection time out of 2nd dial tone, 1300 Hz detection (PSTN1)
000	00	00	TV method Drofiv # (DQTNI1) *
003	00	00	IA method, Fiend # (FSTINT)
090	00	00	(Undefined)
091	70	70	(Underined)
092	70	70	Sending echo protection tone, switch carrier frequency (PSTN1)
093	48	40	CED, Receive command echo (PSTN1)

11. Soft Switch List

MODE	HEX (For	HEX (For	Remark
	U.S.)	Europe)	
094	0C	0C	AGC lock (PSTN1)
095	20	20	Digital TX/RX cable equalizer (PSTN1)
096	14	14	CI signal sending time (PSTN1)
097	14	14	TCF/NTCF sending level down, V.34 symbol rate (PSTN1)
098	46	46	CM signal sending start time, EQM threshold value (PSTN1)
099	88	88	Symbol speed threshold value (PSTN1)
110	23	23	Estimated time of line connection (PSTN2)
111	00	00	(Undefined)
112	28	28	Detect busy tone, Detect line disconnection (inverted polarity) (PSTN2)
113	59	59	(Undefined)
114	14	1C	PB sending lever (PSTN2)
115	90	90	TX level (PSTN2)
116	40	40	RX attenuator (PSTN2)
117	90	90	Detect continuous ringer, Ringer detection frequency (PSTN2)
118	C0	C0	Process detection time out of 2nd dial tone, 1300 Hz detection (PSTN2)
119	00	00	TX method, Prefix # (PSTN2) *
120	00	00	(Undefined)
121	00	00	(Undefined)
122	70	70	Sending echo protection tone, switch carrier frequency (PSTN2)
123	48	48	CED, Receive command echo (PSTN2)
124	0C	0C	AGC lock (PSTN2)
125	20	20	Digital TX/RX cable equalizer (PSTN2)
126	14	14	CI signal sending time (PSTN2)
127	14	14	TCF/NTCF sending level down, V33/V29 sending level down, V.34 symbol rate (PSTN2)
128	46	46	CM signal sending start time, EQM threshold value (PSTN2)
129	88	88	Symbol speed threshold value (PSTN1)
130	00	00	(Undefined)
189	00	00	Destrict CE/CCE somm
190	00	00	
191	00	00	(Underined)
192	20	20	Under or unsplaying year to date
193	33 	33	
196	32	32	
197	C0	C1	Daylight saving time
198	D0	D0	TX forwarding *
199	00	00	(Undefined)
 211	 02	02	
212	40	00	DP make rate (PSTN1)

	HEX	HEX	
MODE	(For	(For	Remark
0.10	U.S.)	Europe)	
213	42	42	(Undefined)
231	05	02	
232	40	00	DP make rate (PSTN2)
233	42	42	(Undefined)
249		 51	
240	08	08	Pinger detection counts (PSTN2)
243	00	00	
200			
287	FF	FF	
288	FF	FF	Insert dummy data before PIX
289	FF	FF	(Undefined)
299	00	00	
300	00	00	REV soft switch for maintenance
301	00	00	REV soft switch for maintenance
302	00	00	REV soft switch for maintenance
303	00	00	REV soft switch for maintenance
304	00	00	REV soft switch for maintenance
305	00	00	REV soft switch for maintenance
306	00	00	(Undefined)
I	I	I	
309	00	00	
310	00	00	Increase sound level *
311	00	00	Invert screen *
312	03	03	Key repeat start time *
313	01	01	Key repeat interval *
314	03	03	Display reservation completion screen *
315	4C	4C	Buzzer
316	00	00	(Undefined)
319	00	00	
320	F0	F0	Cassette-specified printing (G3-1)
321	F0	F0	Cassette-specified printing (G3-2)
322	F0	F0	Cassette-specified printing (Network)
323	F0	F0	Cassette-specified printing (Reports)
324	00	00	(Undefined)
349	00	00	National Internations and the story '
350	A8	A8	Network, Internet fax capability of receiver *
351	18	18	Network, Gateway transmission *
352	D0	D0	Network, Notification of result *
353	88	80	Network, Text insertion, Header printing

11. Soft Switch List

MODE	HEX (For U.S.)	HEX (For Europe)	Remark
354	38	60	Network, Time zone setting
355	20	20	Network, Switch 10M/100M, Switch Full-duplex/Half-duplex
356	40	40	Network, SMTP transmission timeout *
357	40	40	Network, SMTP receive timeout *
358	20	20	Network, POP3 receiving timeout *
359	00	00	Network, # of E-mail TX re-trials
360	80	80	Network, Coding method *
361	78	78	DNS function *
362	80	80	(Undefined)
363	20	20	Network, Image quality of text document
364	00	00	(Undefined)
365	04	04	Network, FTP timeout
366	08	08	Network, Network maintenance window display *
367	20	20	Network, Time of DNS inquiry timeout *
368	C2	C2	Network, Report CVS output *
369	00	00	Network, PING timeout
370	FF	FF	Network, Additional # of E-mail TX re-trials
371	40	40	Network, Interval of retrials to be set for additional # of E-mail TX re-trials *
372	0F	0F	Network, Transmission interval of size-divided E-mail file data *
373	08	08	Network, Full mode function *
374	40	40	Network, NOTIFY setting
375	00	00	(Undefined)
376	00	00	(Undefined)
377	00	00	(Undefined)
378	00	00	(Undefined)
379	10	10	Edit data when forwarding received documents
380	00	00	(N/W) APOP authentication, SMTP authentication *
381	80	80	(N/W) IP Relay function *
382	40	40	(N/W) IP Relay result timeout processing, default *
383	00	00	(Undefined)
 399	 C0	 C0	
400	01	01	Copy, Set up memory recall, Priority doc. mixed mode, Language code *
401	00	00	(Undefined)
402	01	01	Priority doc. mode, Priority copy mode, Automatic function priority mode, Priority application *
403	01	01	Draft print zoom ratio, Auto-reset by user *
404	01	01	Auto-reset time *
405	0F	0F	Pre-heat time *
406	0F	0F	Auto-Power source off time *
407	01	01	LCD back light (Off time) *

	HEX	HEX	
MODE	(For	(For	Remark
408	0.5.)	Europe)	Default fooder (Print paper) *
400	00	00	A-in-1 print Order Depsity Priority Original Image Type *
409	54	00 E4	
410	00	00	
411	00	00	Sign bit, Adjust print density
412	08	08	Sorting
			# of holes to punch *
413	04	04	Specify output bin *
414	A0	A0	Reserve memory copy
415	6C	6C	Beep Volume, Alarm Volume *
416	60	60	Set sound vol. (monitor), Orientation change, No auto-Power source off *
417	63	63	Set max # of copies *
418	58	58	Imaging unit life stop, near life stop
419	40	40	Specify output bin *
420	00	00	Auto panel reset confirmation time *
421	21	42	(Undefined)
422	08	08	Total Counter, Size Counter, Copy Kit Counter
423	4E	4C	Copy, key counter, vendor mode, Doc. size OP *
424	18	18	Metric/inch mix, Copy mode, Small doc. *
425	00	00	Copy, Adjust quality mode
426	50	00	Movement finisher bin *
427	00	00	(Undefined)
428	00	00	(Undefined)
429	00	04	Copy, Auto reset of panel for ADF *
430	00	00	(Undefined)
431	00	00	(Undefined)
432	05	05	PC printer, Over-memory wait time *
433	04	04	Specify language code (Display-use) *
434	04	04	Specify language code (Machine-use) *
435	04	04	Specify language code (Network-use) *
440	12	04	PC printer, PDL set, paper size *
441	80	80	PC printer, paper tray, paper orientation, print method *
442	01	01	PC printer, # of copies (Scalable) (Least significant 8 bits) *
443	00	00	PC printer, # of copies (Scalable) (Most significant 2 bits) *
444	00	00	PC printer, font # *
445	74	4C	PC printer, symbol set *
446	3C	40	PC printer, # of lines *
447	00	00	PC printer, Unit of font size
448	30	30	PC printer, Font size (Scalable) (Least significant 8 bits) *
449	00	00	PC printer, Font size (Scalable) (Most significant 8 bits) *
450	E8	E8	PC printer, Font size (Bitmap) (Least significant 8 bits) *

11. Soft Switch List

MODE	HEX (For U.S.)	HEX (For Europe)	Remark
451	03	03	PC printer, Font size (Bitmap) (Most significant 6 bits) *
452	00	00	PC printer, Switch A4/letter, Map CR/LF *
453	00	00	Set PostScript error print *
455	2C	2C	PC printer, Timeout set (Least significant 8 bits) *
456	01	01	PC printer, Timeout set (Least significant 2 bits)
457	00	00	(Undefined)
463			
403	00	00	PC printer PAW part number pat (Least significant 9 hite)
404	22	22	PC printer, RAW port number set (Least significant 8 bits)
403	23	23	Sot L DAD SSI /TL S with HTTD
400	00	00	PC printer frame type set *
407	00	00	(Undefined)
469	00	00	
470	00	00	Set export extension simple format IT Series Agent *
471	00	00	Set user's list screen display default *
472	00	00	(Lindefined)
473	00	00	Set priority Job List screen *
474	00	00	(Undefined)
475	00	00	(Undefined)
476	00	00	(Undefined)
477	00	00	Set fax registration restriction, destination display *
478	00	00	(Undefined)
1	I	1	x ,
511	00	00	
512	80	80	Detect dial tone (PSTN1)
768	0D	0D	DCS-TCF interval in V.17 and V.27tar (PSTN1)
769	09	09	DCS-TCF interval in V.29 (PSTN1)
770	22	C8	CFR-PIX interval (PSTN1)
771	23	23	T1 timer for auto-TX (PSTN1)
772	23	23	T1 timer for auto-RX (PSTN1)
773	23	23	T1 timer for manual TX (PSTN1)
774	23	23	T1 timer for manual RX (PSTN1)
775	23	23	T1 timer for auto-TX of polling (PSTN1)
776	23	23	T1 timer for manual TX of polling (PSTN1)
777	07	08	PIX-Post command interval (PSTN1)

11.3 List of Soft Switches

NOTE

• If no bit settings are given in the soft switch list that follows, the factory settings for those particular bits are fixed and should never be changed.





: Default settings of Europe

: Default settings are common

MODE					F	actor	y se	ettin	g bit	
000	Bit:	7 0	6 0	5 1	4 1	3 0	2 0	1 0	0 0	HEX:30

Dit	Footuro	Lo	gic	Description		
DIL	realule	0	1	Desc	npuon	
7	Specifies whether TX markers are return to ON or OFF after completing operations. <*>	OFF	Yes			
6	Select position of TX markers. <*>	Top & bottom of doc.	bottom of doc.			
5	Specifies whether print- ing TSI on transmitted document is returned to ON or OFF after complet- ing operations. *	No	Yes			
4	Select position of TSI. *	Outside doc.	Outside doc.			
3	Specifies whether con- firming communication password at TX is returned to ON or OFF after completing opera- tions. <*>	No	Yes			
2	Confirm communication password at RX. <*>	No	Yes			
1	Specifies which TX method is returned to ON, memory-stored TX or nonstorage TX, after com- pleting operations. *	Memory- stored	Non- stored	Memory-stored TX includes quick memory TX.		

NOTE

• The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting

MODE			Factory setting bit							
001	Bit:	7 0	6 0	5 0	4 1	3 0	2 1	1 0	0 0	HEX:14

Dit	Footuro	Lo	gic		Description
DIL	realure	0	1		Description
7	Specify which image qual-	Bit 7-4:	0000	Not available	
6	ity is returned to be		0001	Standard	
5	operations. *		0010	Fine	
4			0011	Not available	
			0100	Superfine	
			0101	GSR	
			0110	Not available	
			0111	Super GSR	
			1000	Text + photo	
			Others	Not available	
3	Specify which density is	Bit 3-1:	000	Much lighter	
2	returned to be assigned		001	Lighter	
1	tion. *		010	Normal	
			011	Darker	
			100	Much darker	
			Others	Not available	
0	Specify whether to insert a destination name on document to send. <*>	No	Yes		

NOTE
• The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting

MODE		Factory setting bit								
002	Bit:	7 1	6 0	5 1	4 0	3 1	2 0	1 0	0 0	HEX:A8

Rit	Footuro	Lo	gic	D	ascription	
ы	reature	0	1		comption	
7	Print communication activity report automati- cally for every 50 activi- ties. *	No Yes		"No" means manual print.		
6	Select when a result	Bit 6-5:	00	No print	Specifies result reports	
5	report should be printed. *		01	Print for incomplete TX	for TX, incomplete TX, or broadcasting TX.	
			10	Always print		
			11	Not available		
3	Print memory clear report.	No	Yes			
2	Log management of broadcast transmissions. <*>	All together	Individual			

• The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting

MODE		Factory setting bit								
003	Bit:	7 0	6 1	5 1	4 1	3 0	2 0	1 1	0 1	HEX:63

Bit	Bit Feature		gic	D	accription	
Dit	reature	0	1	Description		
7	Result report of broadcast	Bit 7to 6:	00	No print		
6	transmissions *		01	Output for incomplete TX		
			10	Always print		
			11	Not available		
5	Monitor line. (PSTN1)	No	Yes			

NOTE

• The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting

MODE					F	actor	y se	ettin	g bit	
004	Bit:	7 0	6 0	5 0	4 1	3 0	2 1	1 1	0 0	HEX:16

Rit	Foaturo	Lo	gic	Descrip	tion
DIL	realure	0	1	Descrip	uon
3	Selects holding time of	Bit 3-0:	0000	IC memory device	
2	incompleted TX document			Delete file from mem-	
1	in memory. < >			redialing function.	
0			0001	10 min	
			0010	20 min	
			0011	30 min	
			0100	40 min	
			0101	50 min	
			0110	1 hr	
			0111	2 hr	
			1000	4 hr	
			1001	8 hr	
			1010	12 hr	
			1011	24 hr	
			1100	72 hr	
			Others	Not available	

• The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting

MODE		Factory setting bit								
005	Bit:	7 0	6 1	5 0	4 1	3 0	2 0	1 0	0 0	HEX:10

Dit	Feature		ogic	Description		
ы	Feature	0	1		Description	
7	Select number of redialing	Bit 7-4:	0000	0	Specifies the number of redial-	
6	1. Number of auto redialing		0001	1	ing with the interval specified	
5	at 1st stage) *		0010	2	(MODE 042 Bit 7-4)."	
4			0011	3		
			0100	4		
			0101	5		
			0110	6		
			0111	7		
			1000	8		
			1001	9		
			1010	10		
			1011	11		
			1100	12		
			1101	13		
			1110	14		
			1111	15		
3	Select number of redialing	Bit 3-0:	0000	0	Once redialing set by "Select	
2	2. (Number of auto redialing		0001	1	number of redialing 1 (MODE 005 Bit 7-4)" the system redi-	
1	at the 2nd stage) *		0010	2	als the number of times speci-	
0			0011	3	fied by this soft switch.	
			0100	4	"Select redialing interval follows	
			0101	5	(MODE 042 Bit 3-0)" at the first	
			0110	6	time and then follows "Select	
			0111	7	redialing interval 1 (MODE 042 Bit 7-4)" from the second time	
			1000	8		
			1001	9		
			1010	10		
			1011	11		
			1100	12		
			1101	13		
			1110	14		
			1111	15		

- The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting
- If the first stage has been set [0000], the system proceeds to the second stage after 10 minutes without carrying out the first stage.
- If the first and the second stages have been set [0000], the auto redialing process will not be is carried out.

MODE					Fa	actor	y se	ettin	g bit	
006	Bit:	7 0	6 1	5 0	4 1	3 0	2 0	1 1	0 0	HEX:32

Bit	Feature	Lo	gic		Description
ы	reature	0	1		Description
7	Select dial line speed (DP	Bit 7-6:	00	10 pps	This is valid only when
6	speed). (PSTN1) *		01	20 pps	"Switch PB/DP (MODE
			10	16 pps	16 pps is unavailable to
			11	Not available	users.
5	Select a line type (tone or pulse) for calling (Switch PB/DP). (PSTN1) *	DP	РВ	DP : pulse PB : tone	
4	Select standard phone line connected with the system (Extension / Exter- nal line connection). (PSTN1) *	Exten- sion con- nection	External line con- nection		
1	Select PSTN port auto- matically: Specify how to dial stan- dard phone lines. <**>	No	Yes	 When the sy and one of the the other line If you have ouse 2 lines for external line 	stem has 2 PSTN lines nem is used, you can use a by selecting "Yes." nly 1 PSTN line or wish to or the extension and the s separately, select "No."

- The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting The feature with [**] (Bit 1) is available only in a system with a multi-port option.
- For PSTN2, see mode 011.

MODE						Fac	ctory	/ se	tting	bit
007	Bit:	7	6	5 1	4	3	2	1	0	HEX:B9 (For U.S.)
			0	1	1	0	1	0	1	HEX:B5 (FOI Europe)

Dit	Feeture	Lo	gic		Description
BI	Feature	0	1		Description
7	Select upper limit of cut-off	Bit 7-5:	000	0 mm	
6	length after printing:		001	8 mm	
5	When a received document		010	12 mm	
	and if the excess length is		011	14 mm	
	shorter than that specified		100	19 mm	
	here, it is cut off.		100	10 11111	
	If it is longer than that value		101	20 mm	
	specified with these bits, it is		110	24 mm	
	split into multiple pages. This		111	Not	
	following 2 conditions are			available	
	satisfied				
	 When printing a received 				
	document				
	When bit 1 of this mode is				
	1 <*>				
4	Select upper limit of reduc-	Bit 4-2:	000	100 %	Reduction will not be
3	tion ratio of received docu-		001	95 %	done if a received doc-
2	When a received document		010	90 %	than the paper for a
	is longer that the print paper.		011	85 %	specified reduction.
	it will be reduced to fit the		100	80 %	
	paper with the upper limit		100	00 %	
	specified with these bits. This		101	65 %	
	feature is enabled when the		110	60 %	
	following 2 conditions are		111	Not	
	When printing a received			available	
	document				
	When bit 1 of this mode is				
	0				
	Example: The reduction is				
	100 to 90% when "90%" is				
	specified. < >		a . "		
1	Select cut off/reduction of	Reduc-	Cut off	This bit deter	mines that the received
	This hit specifies cutting off	uon		upper limit of	cut off length after print-
	or reducing a received docu-			ing (MODE 0	07 Bit 7 to 5)" or
	ment that is longer than the			reduced with	"Select upper limit of
	print paper.			reduction rati	o of received document
	(This feature is enabled when			(MODE 007 I	Bit 4 to 2)."
	printing a received docu-				
	ment.) <^>				
0	Printing specification of	First	All		
	received document.	page.	pages.		

• The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting

MODE					F	actor	y se	ettin	g bit	
008	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Bit	Feature	Lo 0	gic 1		Description
7	Where to detect print papers. (Valid only when printing a received document) <*>	From print paper	From cassette	"From print pap from actual prin cassette" indica cassette size o print papers reg papers.	per" detects print papers nt papers while "From ates print papers with a r the last information on gardless of actual print
6	Select size of print paper	Bit 6-3:	0000	Std method 1	"Std method" determines
5	for received document.		0001	Std method 2	an appropriate print
4	(Valid only when printing a		0010	Std method 3	paper for the length and
3			0011	Std method 4	image.
			0100	No wider width 1	Method 1: Same width and no reduction.
			0101	No wider width 2	and minimum margin. Method 3: No reduction
			0110	No wider width 3	without considering width of paper.
			0111	No wider width 4	Method 4: Minimum margin without consider-
			1000	Same width only	"No wider width" will not take printer paper wider
			Others	Not available	than the print image. No Wider Width 1: Same width and no reduction. Width 2: Same width and minimum margin. Width 3: No reduction without considering width of paper. Width 4: Minimum mar- gin without considering width of paper. "Same width only" selects paper with the same width as the print image. Note. • Margin means the non-printed area. • Methods 2 to 4 are unavailable to users.

• The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting

MODE		Factory setting bit								
009	Bit:	7 0	6 0	5 0	4 1	3 1	2 0	1 1	0 0	HEX:1A

Dit	Feature	Lc	gic		Description
ы	Feature	0	1		Description
7	Select default display of	Bit 7-5:	000	G3-1	Returns "Communica-
6	communication mode:		010	PC Scanner	tion mode" to its default
	at first as communication		011	G3-2	This soft switch is
	mode. *		100	Mail (I-FAX)	unavailable in some sys-
5			101	Scan to E-mail	tems: This soft switch is
			110	IP Address FAX	tems: • With single port
			111	IP Relay	(including pseudo-
			Others	Not available	 multi port) G3 type: all are unavailable With multi port PSTN+PSTN: G3-1, G3-2 available "Mail" can be used when the FAX is equipped with Net- work Application Option.

• The features with (*) are settable by users. This applies only to systems with multi port. *: Screen setting

MODE					Fa	actor	y se	ettin	g bit	
011	Bit:	7 0	6 1	5 0	4 1	3 0	2 0	1 0	0 1	HEX:31

Bit	Egatura	Lo	gic		Description	
Dit	Fedicie	0	1		Description	
7	Select dial line speed (DP	Bit 7-6:	00	10 pps	 This is vali 	d only when
6	speed). (PSTN2) *		01	20pps	"Switch PE	3/DP 1 Bit5)"
			10	16 pps	sets DP.	T DIG
			11	Not available	 16 pps is u to users. 	unavailable
5	Select a line type (tone or pulse) for calling. (Switch PB/DP). (PSTN2) *	DP	РВ	DP : pulsePB : tone		
4	Select standard phone line connected with the system (Extension / Exter- nal line connection). (PSTN2) *	Exten- sion con- nection	External line con- nection			
1	Display illustrations.	Bit 1-0:	00	Not display		
0			01	Display (Anim	ation)	
			10	Display (Still pi	cture)	
			11	Not available		

• The features with (*) are settable by users. This applies only to system with multiport option. *: Screen setting

MODE		Factory setting bit								
012	Bit:	7 0	6 1	5 0	4 0	3 0	2 0	1 0	0 0	HEX:40

Bit	Footuro	Lo	gic	Description
Dit	reature	0	1	Description
6	Select function of # key on one-touch screen.	Full dial- ing num- ber	One- touch number	
0	Accumulated sheets: Change the number of accumulated sheets.	Can be changed.	Changes not allowed.	 Change items "Facsimile Print", "Copy Print", "Report Print", "Send Facsim- ile", "PC Print", and "Send E-mail" on the "Number of sheets" tab. The accumulated sheets can be changed in the maintenance mode even if this bit is set to "Changes not allowed".

MODE	Factory setting bit									
013	Bit:	7 0	6 0	5 1	4 1	3 0	2 1	1 0	0 1	HEX:35

Bit	Fosturo	Lo	gic	Description			
Dit	reature	0	1		Description		
7	Select numbers of fax			One-touch	Print program		
6	one-touches and of copy						
5	screen.	Bit 7-5:	000	5	0		
			001	4	1		
			010	3	2		
			011	2	3		
			100	1	4		
			101	0	5		
			Others	Not available			
4	Determine the input of	Bit 4-3:	00	1 digit Regards these digits a			
3	numbers of copies or of		01	2 digit an input of number			
	mode screen.		10	3 digit	copies.		
			Others	Not available	1		
2	Automatically switch des- tinations	No	Yes	You can register main addresses and 2ndary addresses with onetouch. You can send to 2ndary addresses when communication with main addresses is abnormal. (Optional Network Application Kit must be installed.)			
0	Select operation when INBOX forward failed.	Destroy docu- ment immedi- ately	Destroy docu- ment after printing	Specify the action to be taken when INBOX forwarding has failed. (Failed means communications cannot be delivered. Communications means communications reans communication via FAX and E-mail.)			

MODE		Factory setting bit								
014	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 1	HEX:01

Bit	Foaturo	Lo	gic	Description		
Dit	reature	0	1		Description	
7	Select redialing interval	Bit 7-5:	000	10ïb		
6	for resending document.		001	30 sec		
5			010	60 sec		
			011	120 sec		
			100	180 sec		
			Others	Not available		
1	Broadcast transmission	Bit 1-0:	00	Not display		
0	setting confirmation win- dow. <*>		01	Confirms settings at broadcast tra mission Confirms settings (single destination destinations)		
			10			
			11	Not available		

• The features with (*) are settable by users. <*>: Soft switch setting

MODE	Factory setting bit									
016	Bit:	7 0	6 1	5 0	4 0	3 0	2 0	1 0	0 0	HEX:40

Bit.	Foaturo	Lo	gic	Description		
DIL	realure	0	1	Description		
6	Use of extra telephone. <*>	No	Yes			
5	Mail mode: Print date & time received <*>	No	Yes			
4	Mail mode: Position of print date & time received <*>	Inside doc.	Outside doc.	This is valid only when "(MODE 016 Bit5)" sets Yes.		
1	RX Time Stamp: Print date & time received <*>	No	Yes			
0	RX Time Stamp: Position of print date & time received <*>	Inside doc.	Outside doc.	This is valid only when "(MODE 016 Bit1)" sets Yes.		

NOTE

• The features with (*) are settable by users. <*>: Soft switch setting

MODE		Factory setting bit								
017	Bit:	7 1	6 1	5 0	4 0	3 0	2 0	1 0	0 0	HEX:C0

Dit	F .	Lo	gic	Description			
Bit	Feature	0	1	Description			
3	Select initial value of TSI	Bit 3-0:	0000	TSI 1			
2	name *		0001	TSI 2			
1			0010	TSI 3			
0			0011	TSI 4			
			0100	TSI 5			
			0101	TSI 6			
			0110	TSI 7			
			0111	TSI 8			
			Others	Not available			

• The features with (*) are settable by users. *: Screen setting

MODE	Factory setting bit									
018	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:01

Bit	Footuro	Lo	gic	Description		
Dit	reature	0	1			
5	Select destination screen: Displays screen of desti- nation when document is loaded in FAX mode. *	Bit 5-4:	00	One-touch 1st screen		
4			01	Name screen		
			10	Dial number screen		
			11	Index screen		
3	Specify full-dial sending	Allowed	Not allowed			

NOTE

• The features with (*) are settable by users. *: Screen setting
MODE					F	actor	y se	ettin	g bit	
019	Bit:	7 0	6 0	5 0	4 0	3 1	2 0	1 0	0 0	HEX:08

Bit	Footuro	Lo	gic		Description
Dit	reature	0	1		Description
7	Specify the ringing	Bit 7-3:	00000	0	Specify the ringing count
6	count of auto receiving		00001	1	till the main product
5	call (PSTN1) *				Starts receiving a cail.
4			10100	20	
3			Others	Not available	

- The features with (*) are settable by users. *: Screen setting
- Some machines cannot receive calls. Care must be taken when you set the ringing count to 10 or more.
- For PSTN2, refer to MODE 249.

MODE					F	actor	y se	ettin	g bit	
020	Bit:	7 0	6 1	5 0	4 0	3 0	2 0	1 0	0 0	HEX:40

Dit	Eastura	Lo	gic	Description		
DIL	reature	0	1	Description		
7	Displays # of reports.	No	Yes	"Yes" displays # of pages on phone line in addition to ordinary # of papers.		
6	Trace protocol.	No	Yes	"Yes" prints result of protocol trace after completing communication. If next com- munication is proceeded before this printing, information on previous com- munication protocol will be deleted.		
5	Display number of error lines/transmission speed.	No	Yes	"Yes" displays # of error lines/transmis- sion speed on panel and outputs port for auto checking.		
4	Select monitor interval for line.	Phase A	All phases	Specifies interval for monitoring phone lines for G3 communication.		
3	Display error codes. (Panel, report)	No	Yes	"Yes" displays error codes (6 digit) on panel and in report.		

MODE					F	actor	y se	ettin	g bit	
021	Bit:	7 0	6 0	5 0	4 0	3 1	2 0	1 0	0 0	HEX:08

Bit	Fosturo	Lo	gic		Description
DIL	realule	0	1		Description
4	Call hold guard timer	Bit 4-3:	00	1 hr	
3			01	10 hr	
			10	24 hr	
			11	72 hr	
2	Display symbol rate.	No	Yes	Symbol rates 3200/3429. Rate of 2743	are 2400/2743/2800/3000/ is not actually used.
1	Observe EQM: Check modem & line sta- tuses	No	Yes	Do not chang	ge the set value.
0	Observe probing informa- tion: Check modem & line sta- tuses	No	Yes	Do not chang	ge the set value.

MODE					F	actor	y se	ettir	ng bit	
022	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 1	0 0	HEX:02

Bit	Feature	Lo	gic	Description
Dit	Dit reature		1	Description
2	FAX memory nearly full to its capacity.	256 KB	512 KB	"Memory nearly full" means that unused memory becomes less than a specified capacity. This soft switch specifies threshold capacity.
1	Restrict parameters of memory stored TX.	No	Yes	If "Yes" is selected, then all relay trans- missions will proceed with A4 size when function of remote side is unknown (not learned/full dialing). For learned destination without size of 16×15.4, TX will be done with 8×7.7.

MODE					F	actory	se	ttin	g bit	
023	Bit:	7 1	6 1	5 1	4 1	3 2	2 0	1 0	0 0	HEX:F8

Dit	Feeture	Lo	gic		Description
DIL	reature	0	1		Description
7	Select number of errors in	Bit 7-4:	0000	0	
6	redialing terminal of data		0001	1	
5	type.		0010	2	
4			0011	3	
			0100	4	
			0101	5	
			0110	6	
			0111	7	
			1000	8	
			1001	9	
			1010	10	
			1011	11	
			1100	12	
			1101	13	
			1110	14	
			1111	15	
3	Set margins for report image. <*>	No	Yes	Specifies whe process for re	ether to carry out merge eport of image with merge.
0	Select memory over transmission mode.	Trans- mission contin- ued	Transmis- sion dis- connecte d	Specifies whe transmitted if ning docume	ether stored pages will be memory is full while scan- nts.

[•] The features with (*) are settable by users. <*>: Soft switch setting

MODE					F	acto	ry s	ettir	ng bit	
024	Bit:	7 1	6 0	5 0	4 0	3 0	2 0	1 0	0 1	HEX:81

Bit	Footuro	Lo	gic	Description
Dit	reature	0	1	Description
5	Display Administrator/ User passwords.	Yes	No	
4	Display forwarding func- tion button.	No	Yes	
3	Select alarm buzzer pat- tern.	Pattern 0	Pattern 1	Pattern 0: Peep Poop Peep Poop Peep Poop Pattern 1: Peep Peep Peep
2	Select ID display order when receiving.	Bit 2-1:	00	Expansion IDT \rightarrow TSI
1			01	TSI
			Others	Not available
0	Receive by other user.	No	Yes	

MODE					F	actor	y se	ettin	ig bit	
025	Bit:	7 0	6 1	5 1	4 1	3 1	2 1	1 1	0 1	HEX:7F

Bit	Footuro	Lo	gic	Description
Dit	reature	0	1	Description
6	Service call for printer option failure.	No	Yes	Specifies whether to make a service call for PC printer unit option failure. <note></note>
5	Service call for printer fail- ure.	No	Yes	Specifies whether to make a service call for printer failure. <note></note>
4	Service call for scanner failure.	No	Yes	Specifies whether to make a service call for exceeding specified # of papers. <note></note>
1	Service call for reaching near empty cycles of toner.	No	Yes	Set whether to make a service call for reaching near empty or empty cycles of toner. <note></note>
0	Service call for reaching life times of drum.	No	Yes	Set whether to make a service call for reaching near life time or life times of drum. <note></note>

• This is valid only when "Allow service call? (MODE 026 Bit 6)" is set to "Yes."

MODE					F	actor	y se	ettin	g bit	
026	Bit:	7 1	6 1	5 0	4 1	3 1	2 1	1 1	0 0	HEX:DE

Dit	Frature	Lo	gic	Description
BIt	Feature	0	1	Description
7	Allow remote mainte- nance.	No	Yes	
6	Allow service calls. (E- mail maintenance) (Net- work function)	No	Yes	Unused.
4	Print incomplete TX of service call for notifying consumables.	No	Yes	
3	Service call for empty toner.	No	Yes	
2	Service call for reaching life times of drum.	No	Yes	
1	Notify out-of-consum- ables.	No	Yes	

MODE					F	actor	y se	ettin	g bit	
027	Bit:	7 0	6 0	5 1	4 0	3 0	2 1	1 0	0 0	HEX:24

Dit	Footuro	Lo	gic	Description
DIL	realule	0	1	Description
7 6	Select ID display order: Specifies priority order of	Bit 7-6:	00	Pattern 1: 1→2→3→4→5→6
	destination ID for printing report/ displaying on		01	Pattern 2: 4→5→6→1→2→3
			01	Pattern 3: $4\rightarrow 5\rightarrow 1\rightarrow 2\rightarrow 3\rightarrow 6$
			11	
				1: Name registered in one-touch button 2: Destination # registered in one-touch button 3: Phone # of destination dialed 4: Destination phone # by TSI 5: Extended ID 6: Standard ID (# of TSI/CIG)
5	Display anti-dew button.	No	Yes	
4	Process drum dry button.	No	Yes	
3	Secure comm. with N- method.	No	Yes	
2	F code function.	No	Yes	Need for G3 communications.
1	Assign non-reduction TX for 2in1 scan.	No	Yes	Specifies whether 2in1 TX will be sent by A4 always or by appropriate size to receiver's capability.

MODE					F	actor	y se	ettir	ng bit	
028	Bit:	7 0	6 1	5 1	4 0	3 0	2 0	1 1	0 1	HEX:63

Bit	Feature	Lo	gic	D	escription
		0	1		
7	Select remote print protocol.	F CODE	N method	Fixed to "0", va	lid at TX
6	Select restricted number of	Bit 6-0:	0000000	Not available	
5	prints of remote multi copy.			(Same as 1 copy)	
4			0000001	1 сору	
3					
2			1100011	99 copies	
1				Not available	
0				(Same as 99 copies)	

MODE						Fact	ory	set	ting	bit
030	Bit:	7 1	6 0	5 1	4 1	3 0	2 0	1 0	0 0	HEX:B1 (For U.S.) HEX:B0 (For Europe)

Dit	Footuro	Lo	gic	Deer	vintion
DIL	realure	0	1	Desc	anpuon
7	Rotation TX *	No	Yes		
6	Rotate print of FAX RX.	Bit 6-5:	00	No rotate print	"Sort" means "alter-
5	<*>		01	Rotate print (without sort)	nate sort" here.
1			10	Rotate print (with sort)	
			11	Not available	
4	Receive 2in1 page. (Valid for RX print) <*>	No	Yes		
3	Restrict print paper selec- tion:	Bit 3-2:	00	No B5R, A5R, and postcard	
-	Specifies unselectable print paper (including ori-		01	No A5R and post- card	
			10	No postcard	
			11	Not available	
1	Assign mixed mm/inch	Bit 1-0:	00	Select mm only	
0	papers. (Priority Set)		01	Select inch only	
	(Valid for RX print)		10	Select both	
	· · · /		11	Not available	

• The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting

MODE					F	acto	ry s	ettir	ig bit	
031	Bit:	7 1	6 0	5 1	4 0	3 0	2 0	1 0	0 0	HEX:A0

Bit	Feature	Lo	gic		Description
Dit	reature	0	1		Description
7	Margin process for multi- ple copies of report with image merge.	No	Yes	Valid when "Se image? (MODE	et margins for report E 23 Bit 3)" is set to "Yes."
6	Assign output format for image margin report.	Same as regular report	Always A5 forma	1: Always outp less of the set valid when a ca	ut with A5 format regard- status of paper. This is assette has A4 C papers.
5	Margin layout for 2-sided	Bit 5-4:	00	Top margin	
4	TX *		01	Standard book	
			10	Automatic	
			11	Not available	
2	Proof Print document hold	Bit 2-1:	00	No	Set the time to hold doc-
1	time of PC print *		01	20 min	uments for the Proof
			10	30 min	
			11	Not available	

• The features with (*) are settable by users. *: Screen setting

MODE						Fac	tory	set	ting b	pit
032	Bit:	7 0	6 0	5 1	4 0	3 0	2 0	1 0	0 1	HEX:35 (For U.S.) HEX:21 (For Europe)

Bit	Footuro	Lo	gic	Description
Dit	reature	0	1	Description
4	Select metric/inch for FAX TX	mm	inch	
3	Set zoom ratio for reducing ledger/letter.	64.7 %	77.2 %	
2	Toggle metric and inch when specifying reading area.	mm	inch	

MODE					F	actor	y se	ettin	g bit	
033	Bit:	7 0	6 0	5 0	4 1	3 0	2 1	1 0	0 0	HEX:14

Bit	Feature	Lo	gic		Description
Dit	i cature	0	1		Description
6	Initial setting of 2-sided TX	No 2- sided-TX mode	2-sided TX mode		
5	Select draft printing mode.	Bit 5-4:	00	No draft mode	"Toner saving mode"
4			01	Toner saving mode	follows # of skipped pix- els (Bit Nos. 3 to 2). "High resolution saving
			10	High resolu- tion saving mode	mode" in which each pixel's size will be reduced, follows # of
			11	Not available	skipped pixels (Bit Nos. 3 to 2) for only at points of transition between white-black along the direction of main scan- ning.
3	Select draft printing level.	Bit 3-2:	00	No skipping	Specifies skipped print-
2			01	Skip 1/4 pixel	ing level for copy, RX, and report printing.
			10	Skip 2/4 pixel	
	'		11	Skip 3/4 pixel	

• The features with (*) are settable by users. *: Screen setting

MODE					F	actor	y se	ettin	ig bit	
034	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 1	0 0	HEX:02

Dit	Footuro	Lo	gic		Description
DIL	realule	0	1		Description
7	Select cut-off length at	Bit 7-4:	0000	0 mm	Valid only at RX printing.
6	leading edge of printing		0001	2 mm	
5	paper.		0010	4 mm	
4			0011	6 mm	
			0100	8 mm	
			0101	10 mm	
			0110	12 mm	
			0111	14 mm	
			1000	16 mm	
			1001	18 mm	
			1010	20 mm	
			1011	22 mm	
			1100	24 mm	
			1101	26 mm	
			1110	28 mm	
			1111	30 mm	
3	Set special density.	No	Yes		•
1	Overlap printing.	No	Yes	Valid only Overlappe regardless	at RX printing. ed print is fixed to 4 mm s of line density.

MODE					F	actor	y se	ettin	ig bit	
035	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 1	0 1	HEX:03

Bit	Feature	Lo	gic	Description
Dit	Sil Fealule		1	Description
1	RX by memory when reaching I/C lifetime.	No	Yes	
0	RX by memory when reaching toner empty.	No	Yes	

MODE					F	actor	y se	ettin	ıg bit	
036	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 1	HEX:01

Rit	Foaturo	Lo	gic		ascription
Dit	reature	0	1		escription
7	Secure Print document	Bit 7-3:	00000	Not delete	
6	hold time <*>		00001	1 hr	
5			00010	2 hr	
4			00011	3 hr	
3					
			11000	24 hr	
			Others	Not available	
0	Specify RX (remote copy) print order.	Start print- ing after receiving first page.	Start printing after receiving all pages.		

• The features with (*) are settable by users. <*>: Soft switch setting

MODE					F	actor	y se	ettin	g bit	
037	Bit:	7 1	6 1	5 1	4 1	3 1	2 0	1 0	0 0	HEX:F8

Bit.	Footuro	Lo	gic	Description
DIL	reature	0	1	Description
7	Select FAX paper cas- sette (1st cassette). <*>	No	Yes	
6	Select FAX paper cas- sette (2nd cassette). <*>	No	Yes	
5	Select FAX paper cas- sette (3rd cassette). <*>	No	Yes	
4	Select FAX paper cas- sette (4th cassette). <*>	No	Yes	
2	Select FAX paper cas- sette (Bypath). <*>	No	Yes	

NOTE

• The features with (*) are settable by users. <*>: Soft switch setting

MODE					F	actor	y se	ettin	ig bit	
038	Bit:	7 0	6 0	5 0	4 0	3 1	2 0	1 1	0 0	HEX:0A

Bit	Footuro	Lo	gic	r.	loscription		
Dit		0	1				
7	Turn on print lamp when out-of-paper.	On when all cas- settes are out of paper	On when at least one cas- sette is out of paper				
3	Print restart timer after	Bit 3-2:	00	3 min			
2	stopping.		01	5 min			
			10	10 min			
			11	20 min			
1	Manual setting of print stop/start. *	Stop	Start				
0	Print stop/start timer. *	Does not function	Function				

• The features with (*) are settable by users. *: Screen setting

MODE					F	actor	y se	ettir	ng bit	
040	Bit:	7 1	6 1	5 1	4 1	3 1	2 0	1 1	0 0	HEX:FA

Dit	Footuro	Lo	gic	Description
DIL	reature	0	1	Description
7	2-dim coding at TX. (Valid for G3 communication)	No	Yes	"No": MH "Yes": MH + MR
6	T.6 coding. (Valid for G3 communication)	No	Yes	"Yes": MH + MR + MMR Valid only when "2-dim coding? (MODE 040 Bit 7)" is set to "Yes."
5	JBIG communication. (Valid for ECM communica- tion)	No	Yes	
4	Third party's JBIG (ITU-T) communication. (Valid for ECM communica- tion)	No	Yes	Valid only when "JBIG communica- tion? (MODE 040 Bit 5)" is set to "Yes."
3	Proprietary JBIG (ITU-T) communication. (Valid for ECM communica- tion)	No	Yes	Valid only when "JBIG communica- tion? (MODE 040 Bit 5)" is set to "Yes."
1	JBIG capability at V.34 com- munication. (G3)	No	Yes	Valid only when "JBIG communica- tion? (MODE 040 Bit 5)" is set to "Yes."

MODE					F	acto	ry se	ettin	ıg bit	
041	Bit:	7 0	6 1	5 0	4 0	3 0	2 0	1 0	0 0	HEX:40

Bit	Feature	Lo	gic	Description
Dit	reature	0	1	Description
6	ECM mode	No	Yes	"No": G3 "Yes": G3 + ECM

MODE					F	actor	y se	ettir	ng bit	
042	Bit:	7 0	6 0	5 0	4 1	3 1	2 0	1 1	0 0	HEX:3F

Dit	E a strang	L	ogic		Deservicies
Bit	Feature	0	1		Description
7	Select redialing interval 1.	Bit 7-4:	0000	Not available	
6	*		0001	1 min	
5			0010	2 min	
4			0011	3 min	
			0100	4 min	
			0101	5 min	
			0110	6 min	
			0111	7 min	
			1000	8 min	
			1001	9 min	
			1010	10 min	
			1011	11 min	
			1100	12 min	
			1101	13 min	
			1110	14 min	
			1111	15 min	
3	Select redialing interval 2.	Bit 3-0:	0000	Not available	
2			0001	1 min	
1			0010	2 min	
0			0011	3 min	
			0100	4 min	
			0101	5 min	
			0110	6 min	
			0111	7 min	
			1000	8 min	
			1001	9 min	
			1010	10 min	
			1011	11 min	
			1100	12 min	
			1101	13 min	
			1110	14ï min	
			1111	15 min	

NOTE

• The features with (*) are settable by users. *: Screen setting

MODE					F	actor	y se	ettin	g bit	
043	Bit:	7 1	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:80

Bit.	Footuro	Lo	gic		Description		
Dit			1				
7	# of resending document.	Bit 7-6:	00	0			
6			01	1			
			10	2			
			11	3			
4	Redialing when line is connected but no answer.	No	Yes				
3	Auto-answering call fre- quency.	Not limitation (1 to 9)	limitation (2 to 4)	Number tion calls	of times for automatic recep- 3.		
2	TCI/CSI registration screen.	User	Service mode	telephon	e number setting.		

MODE					F	actor	y se	ettin	g bit	
044	Bit:	7 1	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:80

Bit	Footuro	Lo	gic	Description
Dit	reature	0	1	Description
7	Select threshold value for RTN sending error trace.	32 lines or more	64 lines or more	 Specifies # of error lines as reference of sending RTN: "32 lines or more": MCF if error lines are 0 - 31, RTN if error lines are 32 or more "64 lines or more": MCF if error lines are 0 - 31, RTP if error lines are 32 to 63, RTN if error lines are 64 or more
6	Process TCF sending specially.	No	Yes	
4	Select T4 timer (Action against line delay).	3 sec	4.5 sec	
3	Take an action for com- munication error from overseas (Action against LMCD-OFF).	Yes	No	 Select "No" unless bad line is experi- enced.
2	Take an action for com- munication error from overseas (Action for fall back).	Yes	No	 Select "No" unless bad line is experi- enced.
1	Process RTN RX failure.	discard as error	not as error	
0	Retrain V. 34 control channel.	Yes (discard as error)	No (not as error)	

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MODE					F	actor	y se	ettin	g bit	
047	Bit:	7 1	6 0	5 0	4 0	3 1	2 0	1 0	0 0	HEX:88

Bit	Footuro	Lo	gic		Description
Dit			1		Description
7	Select V. 34 fall back toler-	Bit 7-5:	000	0	
6	ance. (TX)		001	1	
5			010	2	
			011	3	
			100	4	
			Others	Not available	
4	Select V. 34 fall back toler-	Bit 4-2:	000	0	
3	ance. (RX)		001	1	
2			010	2	
			011	3	
			100	4	
			Others	Not available	

MODE					F	actor	y se	ettir	ig bit	-
048	Bit:	7 1	6 1	5 0	4 0	3 0	2 1	1 1	0 0	HEX:C6

Bit.	Foaturo	Lo	gic	Dosc	vintion
Dit	reature	0	1	Desc	inpuori
7	Select V.34/V.33/V.17	Bit 7-6:	00	No capability	Sets MODEM's
6	capabilities.			above 9600 bps	function
			01	V.33	
			10	V.17 & V.33	
			11	V.17 & V.33 & V.34	
2	Allow V.34.	No	Yes	Should be same as 1)"	"V.8 (MODE 48 Bit
1	Allow V. 8.	No	Yes	Should be same as 2)"	"V.8 (MODE 48 Bit
0	Allow V.34 communication for extensions.	V.34	V.17		

MODE					F	acto	ry s	ettir	ig bit	
049	Bit:	7 0	6 0	5 0	4 0	3 1	2 1	1 0	0 1	HEX:0D

Bit	Footuro	Lo	ogic		Description
Dit	reature	0	1	-	Description
4	Select upper limit of trans-	Bit 4-0:	00000	2400 bps	Need to disable "V.34
3	mission speed. (TX)		00001	4800 bps	capability (MODE 048
2			00010	7200 bps	for 2400 bps.
1			00011	9600 bps	16.8 kbps or faster are
0			00100	12.0 kbps	valid only when "Allow
			00101	14.4 kbps	2)" is enabled (Yes).
			00110	16.8 kbps	
			00111	19.2 kbps	
			01000	21.6 kbps	
			01001	24.0 kbps	
			01010	26.4 kbps	
			01011	28.8 kbps	
			01100	31.2 kbps	1
			01101	33.6 kbps	
			Others	Not available	1

MODE					F	acto	ry s	ettir	ng bit	
050	Bit:	7 0	6 0	5 0	4 0	3 1	2 1	1 0	0 1	HEX:0D

Bit	Feature	Lo	gic		Description
Dit	reature	0	1		Description
4	Select upper limit of trans-	Bit 4-0:	00000	2400 bps	Need to disable "V.34
3	mission speed. (RX)		00001	4800 bps	capability (MODE 048 Bit 2)" by setting "No"
2			00010	7200 bps	for 2400 bps.
1			00011	9600 bps	 16.8 kbps or faster is
0			00100	12.0 kbps	valid only when "Allow
			00101	14.4 kbps	2)" is enabled (Yes).
			00110	16.8 kbps	
			00111	19.2 kbps	
			01000	21.6 kbps	
			01001	24.0 kbps	
			01010	26.4 kbps	
			01011	28.8 kbps	
			01100	31.2 kbps	
			01101	33.6 kbps	1
			Others	Not available	

MODE					F	actor	y se	ettin	g bit	
051	Bit:	7 0	6 0	5 1	4 0	3 0	2 0	1 0	0 0	HEX:20

Bit	Foaturo	Lo	gic		Description			
ы	reature	0	1	Description				
7	Declare size of print paper	Bit 7-5:	000	Not available	Specifies declaration			
6	for received document.		001	Auto	value of printing func-			
5			010	A4/Letter	"Auto" selects max size			
			011	B4/Legal	of paper, max size of			
			100	A3/11×17	loaded cassette, or max			
			101	Auto includ- ing rotation	"Auto including rotation" is equivalent to A4R			
			Others	Not available	(Letter R) set even A4 (Letter) is selected by MODE 008 Bit 7.			

MODE					F	actor	ry se	ettir	ig bit	
053	Bit:	7 0	6 1	5 0	4 0	3 1	2 0	1 0	0 0	HEX:C8

Bit	Bit Feature		gic	Description
Dit	reature	0	1	Description
6	Select received docu- ment operation when F code receiving has failed.	Do not destroy	Destroy	

MODE					F	acto	ry se	ettin	ig bit	
054	Bit:	7 0	6 1	5 1	4 1	3 1	2 0	1 1	0 0	HEX:7A

Dit	Feature	L	ogic		Departmention
DIL	Feature	0	1		Description
7	Time to be detected as no	Bit 7-4:	0000	Not available	
6	sound.		0001	1 sec	
5					
4			1111	7 sec	
			1010	10 sec	
			Others	Not available	
3	Control history of V.34 auto dialing.	No	Yes	Valid only when V.34 modulatio	n a receiver system has n.
2	Modulation method for V.34 manual, nonstorage TX.	V.17	V.34		
1	Modulation method for V.34 polling TX document.	V.17	V.34		
0	Modulation method for V.34 manual RX.	V.17	V.34		

MODE					F	acto	ry s	ettir	ng bit	
056	Bit:	7 0	6 0	5 0	4 0	3 1	2 1	1 0	0 0	HEX:0C

Bit	Feature	Lo	gic		Description
Dit	reature	0	1		Description
3	Modem power-saving mode (sleep)	No power- saving mode	Power- saving mode		
2	Select sending time of	Bit 2-0:	000	2.0 sec	
1	ANSam.		001	2.5 sec	
0			010	3.0 sec	
			011	3.5 sec	
			100	4.0 sec	
			101	5.0 sec	
			110	6.0 sec	
			111	Not available	

MODE					F	ctory setting bit	
057	Bit:	7 0	6 0	5 0	4 1	3 2 1 0 0 1 0 0	HEX:19

Rit	Foaturo	L	ogic		Description		
Dit	reature	0	1				
7	Select the time from when	Bit 7-0:			Specify the time from		
6	line is blocked to when		00000000	Not available	when line is blocked to		
5	ANOdin TX starts.		00000001	100 msec	when Anodin TX starts.		
4							
3			00011001	2500 msec			
2							
1			11111111	25500 msec			
0							

MODE					F	actor	y se	ettin	g bit	
077	Bit:	7 0	6 1	5 1	4 0	3 0	2 0	1 0	0 0	HEX:60

Bit	Bit Feature		gic		Description
Dit			1	Description	
4	# of times of hooking	Bit 4-3:	00	3	
3	monitoring during ringing		01	5	
			10	8	
			11	12	

MODE	Factory setting bit									
080 (PSTN1)	Bit:	7	6	5	4	3	2	1	0	HEX:23 (For U.S.) HEX:6E (For Europe)
110 (PSTN2)		0	0	1	0	0	0	1	1	HEX:23 (For U.S.) HEX:23 (For Europe)

Bit	Foaturo	Lo	gic		Description			
Dit	reature	0	1	Description				
7	Select time expected for	Bit 7-0:						
6	line connection		0000000	0 sec				
5			00000001	0.5 sec				
4								
3			00100011	17.5 sec				
2								
			01101110	55 sec				
1			01111000	60 sec				
0			Others	Not available				

MODE					F	actor	y s	ettin	ıg bit	
082 (PSTN1)	Bit:	7	6	5	4	3	2	1	0	HEX:04
112 (PSTN2)		0	0	1	0	1	1	0	0	HEX:28

Dit	Footuro	Lo	gic	Description
DIL	Pealure 0		1	Description
5	Detect busy tone.	No	Yes	
3	Detect line disconnection. (inverted polarity)	No	Yes	

MODE					F	acto	ry se	ettin	g bit	
083 (PSTN1)	Bit:	7 0	6 1	5 0	4 1	3 0	2 0	1 0	0 0	HEX:50

Rit	Footuro	L	ogic		Description
Dit	reature	0	1		Description
7	Monitoring cycle of hook-	Bit 7-6:	00	12 msec	
6	ing		01	24 msec	
			10	36 msec	
			11	48 msec	
5	Select upper limit of	Bit 5-3:	000	8 V	
4	detecting as hooking		001	11 V	
3	detected as hooking)		010	14 V	
	0,		011	19 V	
			100	25 V	
			101	31 V	
			110	36 V	
			111	42 V	
2	Select lower limit of	Bit 2-0:	000	3 V	
1	detecting as hooking		001	5 V	
0	detected as hooking)		010	8 V	
			011	11 V	
			100	14 V	
			101	17 V	
			110	19 V	
			111	22 V	

• The upper limit (Bit 5 to 3) must be higher than the lower limit (Bit 2 to 0).

MODE						Fac	tory	set	ting bit	
084 (PSTN1)	Bit:	7	6	5	4	3	2	1	0	HEX:14 (For U.S.) HEX:28 (For Europe)
114 (PSTN2)		0	0	0	1	1	1	0	0	HEX:14 (For U.S.) HEX:1C (For Europe)

Bit	Footuro	Lo	ogic		Description
Dit	reature	0	1		Description
5	Select PB sending level.	Bit 5-2:	0000	-1 dBm	
4			0001	-2 dBm	
3			0010	-3 dBm	
2			0011	-4 dBm	
			0100	-5 dBm	
			0101	-6 dBm	
			0110	-7 dBm	
			0111	-8 dBm	
			1000	-9 dBm	
			1001	-10 dBm	
			1010	-11 dBm	
			1011	-12 dBm	
			1100	-13 dBm	
			1101	-14 dBm	
			1110	-15 dBm	
			1111	-16 dBm	

MODE						Fac	tory	set	ting bit	
085 (PSTN1)	Bit:	7	6	5	4	3	2	1	0	HEX:90 (For U.S.) HEX:C0 (For Europe)
115 (PSTN2)		1	0	0	1	0	0	0	0	HEX:90 (For U.S.) HEX:90 (For Europe)

Bit	Footuro	Lo	gic	Description				
Dit	reature	0	1	Description				
7	Select TX level.	Bit 7-4:	1000	-9 dBm	Specifies TX levels other			
6			1001	-10 dBm	than PB.			
5			1010	-11 dBm				
4			1011	-12 dBm				
			1100	-13 dBm				
			1101	-14 dBm				
			1110	-15 dBm				
			1110	-16 dBm				
			Others	Not available				

MODE					F	actor	ry se	ettin	ıg bit	
086 (PSTN1)	Bit:	7	6	5	4	3	2	1	0	
116 (PSTN2)		0	1	0	0	0	0	0	0	HEX:40

Bit	Footuro	Lo	gic		Description				
Dit	Dit l'eature		1	Description					
7 6	Select RX attenuator.	Bit 7-6:	00	0 dB (-48 dBm)	 Signals controlled by this soft switch are 				
			01	5 dB (-43 dBm)	1300 Hz detection, PB tone detection, V29 &				
			10	10 dB (-38 dBm)	detection, and all tonal signal.				
			11	15 dB (-33 dBm)	Numbers within parentheses repre- sent the minimum receiving sensitivity.				

MODE					F	acto	y s	ettin	ig bit	
087 (PSTN1) 117 (PSTN2)	Bit:	7 1	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:90

Dit	Footuro	Lo	gic		Depaription			
DIL	reature	0	1	Description				
7	Select detection time of	Bit 7-6:	00	No detection				
6	continuous ringer.		01	1.8 sec				
			10	3.0 sec				
			11	10 sec				
5	Select frequency for	Bit 5-3:	000	10 to 27.5 Hz				
4	ringer detection.		001	10 to 75 Hz				
3			010	10 to 90 Hz				
			011	10 to 200 Hz				
			Others	Not available				

MODE					F	acto	ry s	ettir	ng bit	
088 (PSTN1)	Bit:	7	6	5	4	3	2	1	0	
118 (PSTN2)		1	1	0	0	0	0	0	0	HEX:CO

Bit	Footuro	Lo	gic	Description
Dit	reature	0	1	Description
6	Select process mode at detection time out of 2nd dial tone.	Keeps same operation as before detection even after time out	Gener- ates TX error at time out	
3	1300 Hz detection.	-28 dBm	-36 dBm	

MODE					F	acto	ry se	ettin	ig bit	
089 (PSTN1) 119 (PSTN2)	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Dit	Footuro	Lo	gic		Deparintion
DIL	realure	0			Description
7	Select TX method.	Insert pause after pre- fix for external lines	Insert pause after 1st dial		
6	Select method of detect- ing dial prefix for external lines.	Dial # search method	Pause search method		
5	Select prefix # for external	Bit 5-2:	0000	0	Valid only when "Select
4	lines. *		0001	1	method of detecting dial
3			0010	2	(MODE 089 Bit6)" is set
2			0011	3	to "Dial # search
			0100	4	method."
			0101	5	
			0110	6	
			0111	7	
			1000	8	1
			1001	9	
			Others	Not available	

• The features with (*) are settable by users. *: Screen setting

MODE					F	acto	ry se	ettin	ng bit	
092 (PSTN1)	Bit:	7	6	5	4	3	2	1	0	
122 (PSTN2)		0	1	1	1	0	0	0	0	HEX:70

Bit.	Foaturo	Lo	gic	Do	scription
Dit	reature	0	1	De	schption
7	Send V.29 echo protection tone.	No	Yes		
6	Send V.17 echo protection tone.	No	Yes		
5	Send V.33 echo protection tone.	No	Yes		
4	Select V.17 and V.33 car-	Bit 4-3:	00	1800 Hz	
3	rier frequency.		01	1700 Hz	
			10	1800 + 1700 Hz	
			11	Not available	

MODE						Fac	tory	set	ting bit	
093 (PSTN1)	Bit:	7	6	5	4	3	2	1	0	HEX:48 (For U.S.) HEX:40 (For Europe)
123 (PSTN2)		0	1	0	0	1	0	0	0	HEX:48 (For U.S.) HEX:48 (For Europe)

Dit	Feature	Lo	ogic		Description				
ы	Feature	0	1		Descrip	lion			
7	Select timing for starting	Bit 7-6:	00	0 msec	Specifi	ies time interval			
6	CED sending.		01	2000 msec	from lin	ne connection to			
			10	2500 msec	(7-sec	is provided for the			
			11	7 sec	second	d dial.)			
5	Select CED frequency.	Bit 5-4:	00	2100 Hz	Specifi	es frequency to			
4			01	1080 Hz	carry C	CED or N/A selec-			
			10	1300 Hz					
			11	Not available					
3	Process CED echo.	No	Yes	Specifies whet at the intervals and initial iden	her to p of 500 tificatior	rocess CED echo ms between CED n.			
2	Process incoming com- mand echo.	No	Yes	Specifies whet echo at the inte when receiving and when send mand.	her to p ervals of g an initi ding the	rocess incoming f 500 ms between al identification incoming com-			
1	Control channel data rate.	Bit 1-0:	00	1200 bps					
0	1		01	Non 1200 bps					
			10	2400 bps					
			11	Non 2400 bps					

MODE		Factory setting bit								
094 (PSTN1)	Bit:	7	6	5	4	3	2	1	0	
124 (PSTN2)		0	0	0	0	1	1	0	0	HEX:0C

Bit	Fosturo	Lo	gic	Description
Dit	reature	0	1	Description
3	Lock AGC in V.33 mode.	No	Yes	
2	Lock AGC in V.17 mode.	No	Yes	
1	Lock AGC in V.29 mode.	No	Yes	
0	Lock AGC in V.27ter mode.	No	Yes	

MODE					F	actor	ry se	ettin	ıg bit	
095 (PSTN1) 125 (PSTN2)	Bit:	7 0	6 0	5 1	4 0	3 0	2 0	1 0	0 0	HEX:20

D:+	Foaturo	Lo	gic	Description				
Dit	reature	0	1	Description				
7	Adjust digital TX cable	Bit 7-6:	00	0 dB				
6	equalizer.		01	4 dB				
			10	8 dB				
			11	12 dB				
5	Adjust digital RX cable	Bit 5-4:	00	0 dB	For V.29, actual value			
4	equalizer.		01	4 dB	will be the sum of 4 dB			
			10	8 dB	and the specified value.			
			11	12 dB				

MODE					Fa	acto	y se	ettin	ig bit	
096 (PSTN1) 126 (PSTN2)	Bit:	7 0	6 0	5 0	4 1	3 0	2 1	1 0	0 0	HEX:14

Di+	Footuro	Lo	gic		Description				
DIL	reature	0	1		Description				
5	Select time for CI signal	Bit 5-4:	00	0.5 sec	Use this soft switch for				
4	sending ON.		01	1.0 sec	error in V8 sequence.				
			10	1.5 sec					
			11	2.0 sec					
3	Select time for CI signal	Bit 3-1:	000	0.4 sec	Use this soft switch for				
2	sending OFF.		001	0.8 sec	error in V8 sequence.				
1			010	1.0 sec					
			011	1.2 sec					
			100	1.6 sec					
			101	2.0 sec					
			Others	Not available					

MODE	Factory setting bit									
097 (PSTN1) 127 (PSTN2)	Bit:	7 0	6 0	5 0	4 1	3 0	2 1	1 0	0 0	HEX:14

Bit	Feature	Lo	gic		Description	
Dit	reature	0	1		Description	
7	Attenuate TCF/NTCF sending level.	No Yes 3 dB drops.		Specifies whether to attenuate sending level of TCF and NTCF. For V33/V29, level of attenuation is determined by MODE 085 Bit 7 to 4 and MODE 097 Bit 6. Otherwise, level of attenuation is determined by MODE 085 Bit 7 to 4.		
6	Attenuate V33/V29 send- ing level.	No	Yes 3 dB drops.	Specifies wheth level of V17/V3 tion is determin 4 and MODE 0	her to attenuate sending 33/V29. Level of attenua- ned by MODE 085 Bit 7 to 97 Bit 6.	
4	Select V.34 symbol rate.	Bit 4-2:	000	2400 Sym/S		
3			001	Not available		
2			010	2800 Sym/S		
			011	3000 Sym/S		
			100	3200 Sym/S		
			101	3429 Sym/S		
			Others	Not available		

MODE					F	acto	y se	ettir	ng bit	
098 (PSTN1) 128 (PSTN2)	Bit:	7 0	6 1	5 0	4 0	3 0	2 1	1 1	0 0	HEX:46

D:+	Footuro	Lo	gic		Description
Dit	reature	0	1		Description
7	Select starting time of	Bit 3-6:	00	0 sec	Use this soft switch for
6	sending CM signal.		01	1 sec	error in V8 sequence.
			10	2 sec	
			11	3 sec	
3	Select EQM threshold	Bit 3-0:	0000	-6	
2	value.		0001	-5	
1			0010	-4	
0			0011	-3	
			0100	-2	
			0101	-1	
			0110	0	
			0111	1	
			1000	2	
			1001	3	
			1010	4	
			1011	5	
			1100	6	
			Others	Not available	

MODE		Factory setting bit								
099 (PSTN1)	Bit:	7	6	5	4	3	2	1	0	HEX:88
129 (PSTN2)		1	U	U	U	1	0	0	U	

Bit Feature		Le	ogic		Departmen
ы	reature	0	1		Description
7	Select threshold value 1	Bit 7-4:	0000	-8	Specifies range of tolerance for
6	for symbol speed.		0001	-7	V. 34 line characteristic distor-
5			0010	-6	uon.
4			0011	-5	
			0100	-4	
			0101	-3	
			0110	-2	
			0111	-1	
			1000	0	
			1001	1	
			1010	2	
			1011	3	
			1100	4	
			1101	5	
			1110	6	
			1111	7	
3	Select threshold value 2	Bit 3-0:	0000	-8	Specifies minimum tolerance
2	for symbol speed.		0001	-7	level of S/N ratio in V.34.
1			0010	-6	
0			0011	-5	
			0100	-4	
			0101	-3	
			0110	-2	
			0111	-1	
			1000	0	
			1001	1	
			1010	2	
			1011	3	
			1100	4	
			1101	5	
			1110	6	
			1111	7	

MODE						Fact	tory	set	ting bit	
114 (PSTN2)	Bit:	7 0	6 0	5 0	4 1	3 1	2 1	1 0	0 0	HEX:14 (For U.S.) HEX:1C (For Europe)

Dit	Footuro	Lo	gic	Description	
DIL	reature	0	1		Description
5	Select PB sending level.	Bit 5-2:	0000	-1 dBm	
4			0001	-2 dBm	
3			0010	-3 dBm	
2			0011	-4 dBm	
			0100	-5 dBm	
			0101	-6 dBm	
			0110	-7 dBm	
			0111	-8 dBm	
			1000	-9 dBm	
			1001	-10 dBm	
			1010	-11 dBm	
			1011	-12 dBm	
			1100	-13 dBm	
			1101	-14 dBm	
			1110	-15 dBm	
			1111	-16 dBm	

MODE	Factory setting bit									
190	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Bit	Feature	Lo	gic	Description
Dit	reature	0	1	Description
7	Restrict SF/SSF commu- nication (TX).	No	Yes	For risk management according to new recommendation of G3 high resolution transmission
6	Restrict SF/SSF commu- nication (RX from other company's system).	No	Yes	For risk management according to new recommendation of G3 high resolution transmission

MODE		Factory setting bit								
192	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:C0

Bit	Footuro	Lo	gic	Doc	Description		
Dit	reature	0	1	Dest	npuon		
7	Select order of displaying	Bit 7-6:	00	Year-Month-Date	Order of displaying		
6	year to date.		01	Not available	date in OPE display		
	region)		10	Date-month-year			
	o ,		11	Month-date-year			

MODE						Fac	ory	set	ting b	it
197	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:C0 (For U.S.) HEX:C1 (For Europe)

Bit	Feature	Lo	gic	Desc	ription
Dit	reature	0	1	Desc	nption
7	Daylight saving function	Not available	Available		
6	Display ON/OFF switch of Daylight saving	OFF	ON		
3	Daylight saving pattern	Bit 3-0:	0000	Pattern 1	For the details of
2			0001	Pattern 2	patterns 1 to 6, see
1			0010	Pattern 3	NOTE below.
0			0011	Pattern 4	
			0100	Pattern 5	
			0101	Pattern 6	
			Others	Not available	

	Start Time	End Time
Pattern 1	2:00 am on 1st Sunday, April	2:00 am on last Sunday, October
Pattern 2	2:00 am on last Sunday, March	2:00 am on last Sunday, October
Pattern 3	2:00 am on last Friday, April	2:00 am on last Thursday, September
Pattern 4	2:00 am on last Sunday, March	2:00 am on last Sunday, September
Pattern 5	2:00 am on 1st Sunday, September	2:00 am on last Sunday, April
Pattern 6	2:00 am on last Sunday, October	2:00 am on last Sunday, March

MODE					Fa	actor	y se	ettin	g bit	
198	Bit:	7 1	6 1	5 0	4 1	3 0	2 0	1 0	0 0	HEX:D0

Ri+	Footuro	Lo	gic	Do	scription
Dit	reature	0	1	De	schption
7	TX forwarding to adminis- trator <*>	No	Yes		
6	TX forwarding of scanner function to administrator <*>	No	Yes		
5	Result report TX forward-	Bit 5-4:	00	Not output	
4	ing to administrator		01	Output for incomplete TX	
			10	Always output	
			11	Not available	

MODE						Fac	tory	set	ting bit	
212 (PSTN1)	Bit:	7	6	5	4	3	2	1	0	HEX:40 (For U.S.)
232 (PSTN2)		0	0	0	0	0	0	0	0	HEX:00 (For Europe)

Bit	Feature	Lo	gic		Description		
Dit	reature	0	1	Description			
7	Select DP make rate.	Bit 7-6:	00	33 %	Specify the DP signal		
6			01	40 %	make ratio.		
			Others	Not available			

MODE					F	acto	y se	əttir	ig bit	
249	Bit:	7 0	6 0	5 0	4 0	3 1	2 0	1 0	0 0	HEX:08

Rit	Footuro	Lo	gic		Description
Dit	reature	0	1		Description
7	Specify the ringing count	Bit 7-3:	00000	0	Specify the PSTN2 ring-
6	of auto receiving call		00001	1	ing detection count. The
5	(101112) < >				ber of rings until the
4			10100	20	machine automatically
3			Others	Not available	starts receiving a call.

- The features with (*) are settable by users. <*>: Soft switch setting
- Some machines cannot receive calls. Care must be taken when you set the ringing count to 10 or more.
- For PSTN1, refer to MODE 019.

MODE					F	actor	y se	ettir	ng bit	
288	Bit:	7 1	6 1	5 1	4 1	3 1	2 1	1 1	0 1	HEX:FF

Rit	Footuro	Lo	gic		Description			
Dit	reature	0	1	Decemption				
7	Insert dummy data before	Bit 7-0:	00H	Add 200 ms	Changes not allowed.			
6	PIX.				 Specify period to transmit dummy data 			
5			01H	Add 300 ms	before transmitting			
4				(200 ms +	PIX.			
3				100 ms)	 Add the period speci- fied here to the first 			
2					flag (EMC) and FILL			
1			07H	Add 900 ms	(G3) of the image sig-			
0				(200 ms +700 ms)	nal.			
			FFH	Add 200 ms	1			
			Others	Not available	1			

MODE					F	actor	y se	ettir	ng bit	
310	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Bit	Feature	Lo	gic	Description
DI		0	1	Description
7	Increase of sound level *	Normal sound level mode	Increased sound level mode	

• The features with (*) are settable by users. *: Screen setting

MODE	Factory setting bit									
311	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Bit	Feature	Lo	gic	Description
		0	1	Description
7	Invert screen *	Normal	Inverted	
6	Displaying next screen when using Enlarge Dis- play <*>	Wait for specifi- cation	Display upper-left screen	

NOTE

• The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting
MODE					F	actor	y se	ettin	g bit	
312	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 1	0 1	HEX:03

Bit	Foaturo	Lo	gic		Description
Dit	reature	0	1		Description
7	Key repeat start time *	Bit 7-0:	0000000	Not available	
6			00000001	1×100 ms	
5					
4			00000011	3×100 ms	
3					
2			11111111	255×100 ms	
1					
0					

• The features with (*) are settable by users. *: Screen setting

MODE					F	acto	ry se	ettir	ig bit	
313	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 1	HEX:01

Di+	Foaturo	Lo	gic		Description			
DIL			1	Description				
7	Key repeat interval *	Bit 7-0:	0000000	Not available				
6			00000001	1×100 ms				
5								
4			11111111	255×100 ms				
3								
2								
1								
0								

NOTE

MODE					F	actor	y se	ettin	g bit	
314	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 1	0 1	HEX:03

Bit	Feature	Logic			Description			
Dit			1	2.0001000				
7	Display time of reserva-	Bit 7-0:	0000000	Not closed				
6	tion completion screen *		00000001	1 sec				
5								
4			00000011	3 sec				
3								
2			11111111	255 sec				
1								
0								

• The features with (*) are settable by users. *: Screen setting

MODE					F	acto	ry s	ettir	ng bit	
315	Bit:	7 0	6 1	5 0	4 0	3 1	2 1	1 0	0 0	HEX:4C

Dit	Footuro	Lo	gic	Dooo	ription
DIL	realure	0	1	Desc	npuon
7	Select buzzer ring pattern (JBMS). *	Normal	JBMS- corre- sponding	Specify whether to s pattern to normal pa responding patern	set the buzzer ring attern or JBMS-cor-
6	Sound level of buzzer *	Bit 6-5:	00	Low	
5			01	Normal	
			10	High	
			11	Not available	
4	Normal completion sound	Bit 4-2:	00000	0	Set the sound vol-
3	(JBMS-correspondin) *				ume.
2			01100	3	
1					
0	1		10100	5]
			Others	Not available	1

MODE					F	actor	y se	ettin	g bit	
320	Bit:	7 1	6 1	5 1	4 1	3 0	2 0	1 0	0 0	HEX:F0

Bit.	Footuro	Lo	gic	Description
Dit	reature	0	1	Description
7	Cassette-specified print- ing (G3-1: Tray 1)	Cannot print	Can print	When Mode 320 Bit 0 "Cassette selec- tion per reception port" is enabled, spec-
6	Cassette-specified print- ing (G3-1: Tray 2)	Cannot print	Can print	ify the paper tray (including Bypass Tray) for printing if receiving by G3-1.
5	Cassette-specified print- ing (G3-1: Tray 3)	Cannot print	Can print	
4	Cassette-specified print- ing (G3-1: Tray 4)	Cannot print	Can print	
3	Cassette-specified print- ing (G3-1: Bypass Tray)	Cannot print	Can print	
0	Cassette selection per reception port	Disable	Enable	Specify a cassette for printing received documents per communication line.

MODE					F	acto	ry s	ettin	ig bit	
321	Bit:	7 1	6 1	5 1	4 1	3 0	2 0	1 0	0 0	HEX:F0

Bit	Bit Feature -		gic	Description
Dit			1	Description
7	Cassette-specified print- ing (G3-2: Tray 1)	Cannot print	Can print	When Mode 320 Bit 0 "Cassette selec- tion per reception port" is enabled, spec-
6	Cassette-specified print- ing (G3-2: Tray 2)	Cannot print	Can print	ify the paper tray (including Bypass Tray) for printing if receiving by G3-2.
5	Cassette-specified print- ing (G3-2: Tray 3)	Cannot print	Can print	
4	Cassette-specified print- ing (G3-2: Tray 4)	Cannot print	Can print	
3	Cassette-specified print- ing (G3-2: Bypass Tray)	Cannot print	Can print	

MODE		Factory setting bit								
322	Bit:	7 1	6 1	5 1	4 1	3 0	2 0	1 0	0 0	HEX:F0

Bit	Feature	Lo	gic	Description
Dit	reature	0	1	Description
7	Cassette-specified print- ing (Network: Tray 1)	Cannot print	Can print	When Mode 320 Bit 0 "Cassette selec- tion per reception port" is enabled, spec-
6	Cassette-specified print- ing (Network: Tray 2)	Cannot print	Can print	ify the paper tray (including Bypass Tray) for printing if receiving by Network.
5	Cassette-specified print- ing (Network: Tray 3)	Cannot print	Can print	
4	Cassette-specified print- ing (Network: Tray 4)	Cannot print	Can print	
3	Cassette-specified print- ing (Network: Bypass Tray)	Cannot print	Can print	

MODE					F	actor	y se	ettin	g bit	
323	Bit:	7 1	6 1	5 1	4 1	3 0	2 0	1 0	0 0	HEX:F0

Bit	Footuro	Lo	gic	Description
Dit	reature	0	1	Description
7	Cassette-specified print- ing (Reports: Tray 1)	Cannot print	Can print	When Mode 320 Bit 0 "Cassette selec- tion per reception port" is enabled, spec-
6	Cassette-specified print- ing (Reports: Tray 2)	Cannot print	Can print	ify the paper tray (including Bypass Tray) for printing if receiving by Reports.
5	Cassette-specified print- ing (Reports: Tray 3)	Cannot print	Can print	
4	Cassette-specified print- ing (Reports: Tray 4)	Cannot print	Can print	
3	Cassette-specified print- ing (Reports: Bypass Tray)	Cannot print	Can print	

MODE		Factory setting bit								
350	Bit:	7 1	6 0	5 1	4 0	3 1	2 0	1 0	0 0	HEX:A8

Bit	Footuro	Lo	gic		Description			
Dit	reature	0	1	Description				
6	POP3 before SMTP <*>	No	Yes					
5	Maximum width of docu-	Bit 5-4:	00	A4/Letter	Default value of maxi-			
4	ment to be transmitted		01	B4/Legal	mum width of document			
	the receiver is set to		10	A3/11×17	the fax capability of the			
	[Advanced]		11	Not available	receiver is set to			
	(Network function) *				[Advanced]			
3	Maximum resolution to be	Bit 3-2:	00	200×200 dpi	Default value of maxi-			
2	used when the fax capa-		01	400×400 dpi	mum resolution to be			
	to [Advanced]		10	600×600 dpi	bility of the receiver is			
	(Network function) *		11	Not available	set to [Advanced]			

• The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting

MODE		Factory setting bit								
351	Bit:	7 0	6 0	5 0	4 1	3 0	2 0	1 0	0 0	HEX:18

Bit	Fosturo	Lo	gic		Description
Dit	reature	0	1	1	Description
7	Gateway transmission (Network function) *	Not allowed	Allowed	Specify allower ing E-mail usin tions. SMTP cannot I gateway transr	d or not allowed for send- g gateway communica- be received when the nission is not allowed.
6	Outgoing port for gate-	Bit 6-5:	00	G3-1	Specify an outgoing port
5	way transmission		11	G3-2	for FAX transfer (FAX
			Others	Not available	mail file) through gate- way transmission. (valid for G3 multi-port only) [See note.]
3	Gateway TSI <*>	Normally not add	Nor- mally add	Direct FAX, IP	Relay
2	Internet FAX (IP) recep- tion	Enable	Disable		
1	TSI information for SMTP reception <*>	Machine name pri- ority	IP address priority	Specify whether machine name the TSI in Subj address when received by IP This setting is ity order of disp information of 1 IP address fax reception.	er to describe the (or IP address if none) of ect or prioritize the IP forwarding documents address FAX. applied also for the prior- olay of destination name the RX Activity Report for reception and IP Relay

- The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting The feature with [**] is available only in a system with a multi-port option.
- For G3-1 and G3-2, see ÅgSelect PSTN port automatically (MODE 006 Bit 1)Åh.

MODE		Factory setting bit								
352	Bit:	7 1	6 1	5 0	4 1	3 0	2 0	1 0	0 0	HEX:D0

Bit	Feature	Lo	gic	Description
		0	1	
7	Notification of result (Network function) *	No	Yes	Specify whether a communication error message is returned to the sender when a communication error occurs with code E6xxxx when E-mail is received.
6	Position for adding Gate- way TSI <*>	Outside of docu- ment	Inside of docu- ment	Specify where to add the TSI when for- warding through Gateway transmission (Direct FAX, IP Relay).
5	Specify whether to add TSI when forwarding <*>	Not add	Add	Specify whether to add TSI when for- warding received documents.
4	Position for adding TSI when forwarding <*>	Outside of docu- ment	Inside of docu- ment	Select where to add the TSI when for- warding received documents.

• The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting

MODE						Fact	ory	set	ting bit	
353	Bit:	7 1	6 0	5 0	4 0	3 1	2 0	1 0	0 0	HEX:88 (For U.S.) HEX:80 (For Europe)

Rit.	Footuro	Lo	gic	Description
Dit	reature	0	1	Description
7	Text insertion into docu- ment to send (Network function) *	No	Yes	Specify whether to insert a preset text message at the head of a stored docu- ment image to be transmitted by E-mail.
6	Header printing on received document (Network function) *	No	Yes	Specify whether to print a header on documents received via E-mail.
4	Insert arbitrary text mes- sage *	No	Yes	
3	Display arbitrary text mes- sage screen	No	Yes	

NOTE

- The features with (*) are settable by users. *: Screen setting
 Predetermined text: Image data (TIFF-F format) has been attached to the E-mail.

MODE						Fact	ory	set	ting bit	
354	Bit:	7 1	6 0	5 1	4 0	3 1	2 0	1 0	0 0	HEX:38 (For U.S.) HEX:60 (For Europe)

D:+	Footuro	Lo	gic	Description	
Dit	reature	0	1	Descript	ION
7	Time zone settings:	Bit 7-2:	000000	GMT-12:00	
6	Set time zone for the date		000001	GMT-11:30	
	header		001110	GMT-5:00	
5	(Network function) *				
4			011000	GMT	
3					
2			101010	GMT+09:00	
			101111	GMT+11:30	
			Others	Not available	

• The features with (*) are settable by users. *: Screen setting

MODE					F	actor	y se	ettin	g bit	
355	Bit:	7 0	6 0	5 1	4 0	3 0	2 0	1 0	0 0	HEX:20

Rit.	Foaturo	Lo	gic		Description
Dit	reature	0	1		Description
7 6	Switch 10M and 100M: Select communication	Bit7-6:	00	Auto-negoti- ation	 Auto-negotiation: Determine the com-
-	rate of LAN adapter (Net-		01	Set to 100M	munication rate by
	work function) "		10	Set to 10M	or 100BASE-TX.
			11	Not available	 Set to 100M: Connection is set to 100BASE-TX. Set to 10M: Connection is set to 10BASE-TX. Set to 10M: Connection is set to 10BASE-T. Valid after the power is turned off and on. (Will not communicate when "Set to 100M" or "Set to 10M" is chosen and the communication rate is not correct for the communication line. Check and specify the correct communication rate for the line.)
5	Switch full-duplex and half-duplex: Select packet transmit/ receive when connecting to switching hub. (Network function) *	Full Duplex	Half Duplex	 This switch is v 7 to 6 is set to 10M". Full-duplex: received sim Half-duplex: received sep Valid after the turned off and 	ralid when MODE 355 Bit "Set to 100M" or "Set to Packets can be sent and ultaneously. Packets can be sent or varately. main power switch is on.
4	Automatically obtain IP address (DHCP) *	No	Yes		

MODE		Factory setting bit								
356	Bit:	7 0	6 1	5 0	4 0	3 0	2 0	1 0	0 0	HEX:F40

Rit	Foaturo	Lo	gic		Description
Dit	reature	0	1		Description
7	SMTP transmission time-	Bit 7-4:	0000	Not available	Set time waiting for a
6	out (Network function) <*>		0001	30 sec	response to mail com-
5			0010	60 sec	tion scanner or the
4			0011	90 sec	SMTP server in scanner
			0100	120 sec	transmission or E-mail
			0101	150 sec	Effective after the main
			0110	180 sec	power switch is turned
			0111	210 sec	off and on.
			1000	240 sec	
			1001	270 sec	
			1010	300 sec	1
			Others	Not available	1

• The features with (*) are settable by users. <*>: Soft switch setting

MODE		Factory setting bit								
357	Bit:	7 0	6 1	5 0	4 0	3 0	2 0	1 0	0 0	HEX:40

Dit	Footuro	Lo	ogic		Description
Dit	reature	0	1		Description
7	SMTP transmission time-	Bit 7-4:	0000	Not available	Specify time waiting for
6	out (Network function) <*>		0001	30 sec	command from SMTP
5			0010	60 sec	Valid after the mai pow-
4			0011	90 sec	erswitch is turned off
			0100	120 sec	and on.
			0101	150 sec	
			0110	180 sec	-
			0111	210 sec	-
			1000	240 sec	
			1001	270 sec	
			1010	300 sec	
			Others	Not available	

NOTE

• The features with (*) are settable by users. <*>: Soft switch setting

MODE					F	actor	Factory setting bit								
358	Bit:	7 0	6 0	5 1	4 0	3 0	2 0	1 0	0 0	HEX:20					

Bit	Feature	Lo	gic		Description
Dit	I cature	0	1		Description
7	POP3 receive timeout	Bit 7-4:	0000	Not available	Set time waiting for a
6	(Network function) <*>		0001	30 sec	response to mail com-
5			0010	60 sec	server in E-mail trans-
4			0011	90 sec	mission.
			0100	120 sec	Effective after the power
			0101	150 sec	is turned on and on.
			0110	180 sec	
			0111	210 sec	
			1000	240 sec	
			1001	270 sec	1
			1010	300 sec	1
			Others	Not available	

• The features with (*) are settable by users. <*>: Soft switch setting

MODE		Factory setting bit								
359	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Dit	Footuro	Lo	gic		Description
DIL	realure	0	1		Description
7	Number of times to retry E-mail transmission (Net- work function)	Normal	Addi- tional retry	When this swite retry", retry E-r ing to MODE 3 number of time	ch is set to "Additional nail transmission accord- 70, 371 after retrying the s specified by the user.
6	Scanner mode: Coding	Bit 6-4:	000	мн	
5	method (TIFF) when		001	MR	
4	[Auvanceu] is specified.		010	MMR	
			011	JBIG	
			Others	Not available	
0	Forced priority transmis- sion (Network function)	OFF	ON	Specify whether ity transmission	er to forcibly perform prior- n for awaiting documents.

MODE		Factory setting bit								
360	Bit:	7 1	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:80

Dit	Footuro	Lo	gic		Deparintion
DIL	Feature	0	1		Description
7	E-mail reception (Net- work function)	Prohib- ited	Permit- ted	Select either [F for E-mail rece	Prohibited] or [Permitted] ption (SMTP/POP3).
6	Coding method for the	Bit 6-4:	000	мн	
5	receiver Internet fax capa-		001	MR	
4	Mail mode) *		010	MMR	
	,		011	JBIG	
			Others	Not available	
3	Coding method for PDF *	Bit 3-2:	00	мн	
2			01	Not available (MR)	
			10	MMR	
			11	Not available (JBIG)	
1	Image data file format *	Bit 1-0:	00	TIFF	
0	1		01	PDF]
			Others	Not available	1

• The features with (*) are settable by users. *: Screen setting

MODE		Factory setting bit								
361	Bit:	7 0	6 1	5 1	4 1	3 1	2 0	1 0	0 0	HEX:78

Rit	Footuro	Lo	gic	Description		
Dit	reature	0	1	Description		
0	DNS function *	Not available	Available			

NOTE

• The features with (*) are settable by users. *: Screen setting

MODE		Factory setting bit								
363	Bit:	7 0	6 0	5 1	4 0	3 0	2 0	1 0	0 0	HEX:20

Bit	Feature	Lo	gic	Description
Dit	reature	0	1	Description
6	SMTP expansion prohib- ited (Network function)	Permit- ted	Prohib- ited	Select either "Permitted" or "Prohibited" for SMTP expansion protocol.Valid after the power is turned off and on.
5	Specify From address for DSN report transmission (Network function)	Address specified	Address not spec- ified	Chain mail can be prevented by specify- ing an address for DSN report on some systems.

MODE		Factory setting bit								
365	Bit:	7 0	6 0	5 0	4 0	3 0	2 1	1 0	0 0	HEX:04

Rit.	Footuro	Lo	gic		Description
Dit	reature	0	1		Description
7	FTP timeout (Network	Bit 7-0:	00000001	30 sec	Specify the period until
6	function)		00000010	60 sec	timeout during no
5			00000011	90 sec	mand after FTP login is
4			00000100	120 sec	established.
3			00000101	150 sec	Timeout results in FTP
2			00000110	180 sec	logout lorcibly.
1			00000111	210 sec	
0			00001000	240 sec	
			00001001	270 sec	
			00001010	300 sec	
			Others	Not available	

MODE		Factory setting bit								
366	Bit:	7 0	6 0	5 0	4 0	3 1	2 0	1 0	0 0	HEX:08

Bit	Footuro	Lo	gic	Description	
DIL	reature	0	1	Description	
7	Display network mainte- nance screen (Network function)	Not dis- play	Display		
6	Priority address input screen for preset scan <*>	IP address input screen	Domain name input screen		
4	Limit the number of char- acters to be used for E- mail file name	No	Yes		
3	Number of digits of the year of a file name	Last 2 digits	4 digits		

• The features with (*) are settable by users. <*>: Soft switch setting

MODE		Factory setting bit								
367	Bit:	7 0	6 0	5 1	4 0	3 0	2 0	1 0	0 0	HEX:20

Rit	Footuro	Lo	gic		Description				
Dit	reature	0	1	Decemption					
7	DNS inquiry timeout <*>	Bit7-3:	00001	20 sec					
6			00010	40 sec					
5			00011	80 sec					
4			00100	160 sec					
3			00101	320 sec					
			00110	640 sec					
			Others	Not available					

NOTE

• The features with (*) are settable by users. <*>: Soft switch setting

MODE		Factory setting bit								
368	Bit:	7 1	6 1	5 0	4 0	32 00	1 1	0 0	HEX:C2	

Bit	Feature	Lo	gic	Description
Dit	I Eduie	0	1	Description
7	Communication manage- ment report CVS output *	Not output	Output	
6	Use a password for both administrator and net- work *	No	Yes	 No: Password is used for network only. Yes: Password is used for both net- work and administrator (machine)
1	Communication log (TX) for scanner transmission	Not print	Print	
0	Result of communication sent from a network fax	Not print	Print	

MODE		Factory setting bit								
369	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Bit.	Foaturo	Lo	gic		Description	
Dit	reature	0	1		Beeenpaen	
2	PING timeout	Bit2-0:	000	5 sec		
1			001	10 sec		
0			010	15 sec		
			011	20 sec		
			100	25 sec		
			101	30 sec		
			Others	Not available		

MODE					F	acto	ry se	ettin	ng bit	
370	Bit:	7 1	6 1	5 1	4 1	3 1	2 1	1 1	0 1	HEX:FF

Bit	Feature	Lo	gic		Description	
Dit	reature	0	1	Decemption		
7	Additional number of	Bit 7-0:	00000000	0	Specify additional retrial	
6	times to retry E-mail		00000001	1	times after retrying the	
5	function)			fied by the user.		
4			11111111	255	"0" indicates no addi-	
3					tional retrial.	
2					end after retrying E-mail	
1					transmissions the cur-	
0					rent number of times specified by the user.	

MODE					F	acto	ry s	ettir	ng bit	
371	Bit:	7 0	6 1	5 0	4 0	3 0	2 0	1 0	0 0	HEX:40

Bit	Feature	Lo	gic		Description
Dit	reature	0	1		Description
7	Retry interval for "number	Bit 7-5:	000	10 min	
6	of times to retry addi-		001	15 min	
5	sion" (Network function)		010	20 min	
			011	25 min	
			100	30 min	
			Others	Not available	
1	Binary Division *	OFF	ON		
0	Page Division *	OFF	ON		

• The features with (*) are settable by users. *: Screen setting

MODE		Factory setting bit								
372	Bit:	7 0	6 0	5 0	4 0	3 1	2 1	1 1	0 1	HEX:0F

Dit	Feature	Lo	gic		Description
Dit	Feature	0	1		Description
7	Specify transmission	Bit 7-0:	00000101	5 sec	
6	interval of sizedivided E-		00001010	10 sec	
5			00001111	15 sec	
4			00011110	30 sec	
3			00111100	60 sec	
2			01011010	90 sec	
1			01111000	120 sec	
0			10010110	150 sec	
			10110100	180 sec	
			11010010	210 sec	
			11110000	240 sec	
			00000000	Not available	1

• The features with (*) are settable by users. <*>: Soft switch setting

MODE		Factory setting bit								
373	Bit:	7 0	6 0	5 0	4 0	3 1	2 0	1 0	0 0	HEX:08

Dit	Footuro	Lo	gic		Deparintion
DIL	realure	0	1		Description
7	Full-mode function <*>	Not available	Available		
6	Output of MDN/DSN text	No	Yes		
3	Wait time for MDN	Bit3-0:	0000	0 min	
2	response		0001	5 min	
1			0010	10 min	
0			0011	15 min	
			0100	20 min	
			0101	30 min	
			0110	40 min	
			0111	50 min	
			1000	1 hr	
			1001	2 hr	
			1010	3 hr	
			1011	4 hr	
			1100	5 hr	
			1101	6 hr	
			1110	7 hr	
			1111	8 hr	

• The features with (*) are settable by users. <*>: Soft switch setting

MODE		Factory setting bit								
374	Bit:	7 0	6 1	5 0	4 0	3 0	2 0	1 0	0 0	HEX:40

Bit	Footuro	Lo	gic	Description
Dit	0 1		1	Description
7	NOTIFY (SUCCESS)	Not send	Send	Used when the mail server processed normally.
6	NOTIFY (FAILURE)	Not send	Send	Used when the mail server detected an error.
5	NOTIFY (DELAY)	Not send	Send	Used when the mail server cannot pro- cess immediately after receiving mail file.
4	Response to MDN request when receiving SMTP data	Respons e	No response	

MODE		Factory setting bit								
379	Bit:	7 0	6 0	5 0	4 1	3 0	2 0	1 0	0 0	HEX:10

Bit	Feature	Lo	gic	Description				
Dit	reature	0	1	Decemption				
3	Specify position for cutting	Bit3-2: 00		Center	Specify position for cut-			
2	off data when forwarding	01		Left side	ting off data for the main			
	10		10	Not available	nal size to sending size			
			11	Right side	when forwarding received documents.			
1 0	Specify image editing when forwarding	Bit1-0: 00		Edit to regu- lar size and forward	Specify whether to set the main scan width of received data to regular			
			01	Forward stored data as is	width or leave the stored data width as is when forwarding received doc-			
			Others	Not available	uments.			

MODE		Factory setting bit								
380	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Rit	Footuro	Lo	gic	Description
DIL	reature	0	1	Description
7	Enable APOP authentica- tion function <*>	Not enable	Enable	Specify whether to enable the APOP function.
6	Enable SMTP authentica- tion function <*>	Not enable	Enable	Specify whether to enable the SMTP authentication function. (*1)
5	SMTP authentication: Allow CRAMMD5 authen- tication function <*>	Allowed	Not allowed	Specify whether to enable the CRAM- MD5 authentication function for SMTP authentication. (*2)
4	SMTP authentication: Allow LOGIN authentica- tion function <*>	Allowed	Not allowed	Specify whether to enable the LOGIN authentication function for SMTP authentication. (*2)
3	SMTP authentication: Allow PLAIN authentica- tion function <*>	Allowed	Not allowed	Specify whether to enable the PLAIN authentication function for SMTP authentication. (*2)
2	Separate SMTP authenti- cation ID/password and POP3 information <*>	Not sep- arate	Separate	Specify whether to share the SMTP authentication ID/password with POP3 information.

• The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting

(*1) The SMTP authentication function is valid under the following conditions.

- MODE 380 Bit 6 is set to "1".
- When the SMTP authentication user name and SMTP authentication password share the POP3 user name and POP3 password, MODE 380 Bit 2 is set to "0".
 When the SMTP authentication user name and SMTP authentication password do not share the POP3 user name and POP3 password, MODE 380 Bit 2 is set to "1", and "SMTP AUTH User Name" and "SMTP AUTH Password" are set in Network Settings.
- MODE 380 Bit 5, 4, or 3 is set to "0".

(*2) When all mail authentication functions are validated (MODE 380 Bits 5, 4, and 3 all are set to "0"), they are prioritized in the order "DRAM-MD5 authentication (Bit 5)" \rightarrow "LOGIN authentication (Bit 4)" \rightarrow "PLAIN authentication (Bit 3)".

MODE		Factory setting bit								
381	Bit:	7 1	6 0	5 0	4 0	32	2	1 0	0 0	HEX:80

Bit	Feature	Lo	gic		Description			
Dit	I cature	0	1	Description				
7	Use IP Relay function	Disable Enable		Select whether function.	to enable the IP Relay			
2	Set transmission coding	Bit2-0:	000	мн	Specify default coding			
1	method for IP Relay trans-		001		method for capability of			
0		010		MMR	ing by IP Relay (instruct-			
		011		JBIG	ing machine)			
			Others	Not available				

• The features with (*) are settable by users. <*>: Soft switch setting

MODE					F	acto	y se	ettin	g bit	
382	Bit:	7 0	6 1	5 0	4 0	3 0	2 0	1 0	0 0	HEX:40

D''	F /	Lo	ogic		
Bit	Feature	0	1	- 	
7	IP Relay Process result timeout <*>	Commu- nication error	Commu- nication com- pleted	Specify the cor a timeout occu ing (instruction	nmunication result when rs by IP Relay result wait- machine).
6	IP Relay Set result time-	Bit 6-3:	0000	0 min	Specify the period of a
5	out <*>		0001	5 min	timeout of IP Relay
4			0010	10 min	machine).
3			0011	15 min	
			0100	20 min	
			0101	30 min	
			0110	40 min	
			0111	50 min	
			1000	1 hr	
			1001	2 hr	
			1010	3 hr	
			1011	4 hr	
			1100	5 hr	
			1101	6 hr	
			1110	7 hr	
			1111	8 hr	
2	Set default relay station for IP Relay *	Bit 2-0:	000	Relay station 1	Set the default relay instruction machine for
1			001	Relay station 2	IP Relay (instruction machine).
0			010	Relay station 3	
			011	Relay station 4	
			100	Relay station 5	
			101	Relay station 6	
			110	Relay station 7	
			111	Relay station 8	

- The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting

MODE		Factory setting bit								
400	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Bit	Foaturo	Lo	gic		Description		
Dit	reature	0	1		Description		
6	Set priority doc mixed mode. (Copy) *	No	Yes	Selects priority doc mixed mode wh Power source is ON and panel rese is ON.			
5		Bit 5-0:	000000	apanese			
4			000001	English			
3			Others	Not available			
2							
1							
0							

• The features with (*) are settable by users. *: Screen setting

MODE					F	acto	y se	ettin	g bit	
402	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 1	HEX:01

Dit	Footuro	Lo	gic		Description
DIL	reature	0	1		Description
7	Select priority doc mode. (Copy) *	1 sided	2 sided		
6	Select priority print mode.	Bit 6-5:	00	1 sided	
5	(Copy) *		01	2 sided	
			Others	Not available	
4	Select automatic function	Bit 4-3:	00	APS	APS: Auto Paper Selec-
3	priority mode (Copy) *		01	AMS	tion.
			10	Not available	tion Selection.
			11	Manual	
2	Select priority order of device *	Сору	Printer		
1	Select priority applica-	Bit 1-0:	00	FAX	Sets the initial status
0	tion. (after auto clear and		01	Сору	screen (Copy, FAX, Auto
	parler resery		10	Auto	
			11	Scanner	

NOTE

MODE					F	actor	y se	ettin	g bit	
403	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 1	HEX:01

Bit	Footuro	Lo	gic	Description
ы	reature	0 1		Description
7	Select draft print zoom ratio. (Copy) *	Recom- mended magnifi- cation	Same magnifi- cation	Set ratios for 2-in-1 page, 4-in-1 page, Booklet creation, or image repeat.
0	Auto-clear by user. (Copy)	No	Yes	Selects whether to reset the touch panel when pressing ID key.

• The features with (*) are settable by users. *: Screen setting

MODE					F	actor	ry se	ettir	g bit	
404	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 1	HEX:01

Bit	Footuro	Lo	gic		Description		
Dit	reature	0	1	Description			
7	Select auto-clear time. *	Bit 7-0:	0000000	No reset			
6			00000001	1 min	For every 1 min		
5							
4			11110000	240 min	Select whether to carry		
3			11111111	30 sec	out auto-clear if there is		
2			Others	Not available	tain time, after copy or		
1					operation.		
0							

NOTE

• The features with (*) are settable by users. *: Screen setting

MODE	Factory setting bit									
405	Bit:	7 0	6 0	5 0	4 0	3 1	2 1	1 1	0 1	HEX:0F

Rit	Foaturo	Lo	gic		Description	
DIL	realure	0	1		Description	
7	Select pre-heating time. *	Bit 7-0: 00000001		1 min	For every 1 min	
6					Select whether to carry	
5			00000101	5 min	out auto-clear if there is	
					no operation for certain	
4		00001111		15 min	time, after copy or oper-	
3			11110000	240 min		
2			Others	Not available		
1						
0						

• The features with (*) are settable by users. *: Screen setting

MODE	Factory setting bit									
406	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 1	HEX:0F

Bit	Footuro	Lo	gic		Description
DIL	realure	0	1		Description
7	Select sleep off time. *	Bit 7-0:	0000000	OFF	For every 1 min
6			0000001	1 min	Select whether to carry
			00001111	15 min	out "auto power-source
5					off" if there is no opera-
4			00011110	30 min	tion for certain time, after
3					select its time.
2			00111100	60 min	"Auto Power source off"
1					is not carried out if
0			11110000	240 min	source off (MODE 416
			Others	Not available	Bit 0)" is set to "No."

NOTE

• The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting

MODE		Factory setting bit								
407	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 1	HEX:01

Bit	Feature	Lo	gic	Description			
Dit	reature	0	1				
7	Select touch panel off	Bit 7-0:	00000000	OFF			
6	time. *		00000001	1 min	For every 1 min		
5							
4			11110000	240 min	Select whether to carry		
3			Others	Not available	out "auto panel off" if no		
2					for certain time after		
1					operation.		
0							

• The features with (*) are settable by users. *: Screen setting

MODE		Factory setting bit									
408	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00	

Bit	Footuro	Lo	gic		Description		
Dit	reature	0	1	Description			
7	Select feeder tray. (Paper)	Bit 7-4:	0000	1 tray	Selects the priority		
6	(Copy) *	0001		2 tray	feeder tray used when		
5		0010		3 tray	mode) or manual mode		
4			0011	4 tray	is selected.		
			1010	Bypass			
			1100	LCT			
			Others	Not available			

NOTE

MODE					F	actor	y se	ettin	g bit	
409	Bit:	7 0	6 0	5 0	4 0	3 1	2 0	1 0	0 0	HEX:08

Rit.	Footuro	Lo	gic	Description				
Dit	reature	0	1	Description				
7	Select priority order of 4-	Bit 7-6:	00	Pattern 1	Dettorn 1 Dettorn 2			
6	in-1 page (Copy) *		01	Pattern 2	Pattern 1 Pattern 2			
			Others	Not available	3 4 2 4			
5	Select priority exposure level. (Copy) *	AE	Manual	Density				
4	Select priority doc level.	Bit 4-1:	0000	Text/Photo	"Photo mode" is unavail-			
3	(Copy) *		0100	Text	able if MODE 409 Bit No.			
2			1000	Photo	5 15 SEL AL (AULO).			
1			1100	Dot Matrix				
			Others	Not available				

• The features with (*) are settable by users. *: Screen setting

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MODE					F	acto	ry s	ettin	Factory setting bit									
410	Bit:	7 0	6 1	5 0	4 1	3 0	2 1	1 0	0 0	HEX:54								

Dit	Footuro	Ŀ	ogic		Description
DIL	realule	0	1		Description
7	Select AE print density	Bit7-6:	00	Darker	Specifies level of auto
6	level. (Copy) *		01	Normal	density.
			10	Not available	
			11	Lighter	
4	Light original adjustment, (Copy: ADF only) *	Darker- Copy	Lighter Copy	Darker Copy: S sity as specifie same as that in Lighter Copy:S sity lighter than	Scans originals in the den- d. (The density is the n BS scanning.) scans originals in the den- n specified.
3	Select priority manual	Bit3-0:	0000	EXP1	Selects manual density
2	density level. (Copy) *		0001	EXP2	level at mode initializa-
1			0010	EXP3	density is switched to
0			0011	EXP4	manual density:
			0100	EXP5	EXP1 (Lighter)
			0101	EXP6	EXP5 (Normal)
			0110	EXP7	
			0111	EXP8	EXP9 (Darker)
			1000	EXP9]
			Others	Not available]

• The features with (*) are settable by users. *: Screen setting

MODE		Factory setting bit									
411	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00	

Rit	Footuro	Lo	gic		Description	
Dit	reature	0	1	Description		
7	Select symbol bit. (Copy)	+	-	Selects direction adjustment by	on (+/-) of print density MODE 411 Bit 2 to 0.	
2	Adjust print density.	Bit 2-0:	000	0	Selects print density by	
1	(Copy) *				adjusting development	
			011	3	Dids.	
0			Others	Not available		

NOTE

• The features with (*) are settable by users. *: Screen setting

MODE		Factory setting bit									
412	Bit:	7 0	6 0	5 0	4 0	3 1	2 0	1 0	0 0	HEX:08	

Dit	Footuro	Lo	gic	D	agarintian
Dit	Fedicie	0	1		escription
7	Select auto sort mode.	Bit 7-6:	00	Sort off mode	Specifies mode of
6	(Copy) *		01	Sort on mode	paper ejection when
			10	Not available	attached.
			11	Grouping mode	
5	Prohibit shifting. (Copy)	No	Yes		
4	Select auto punch mode. (Copy) *	No	Yes	Settable with oth 412 Bit Nos. 7-6.	er functions of MODE
3	Select sort on/off auto switch. (Copy) *	No	Yes	Determines whe → sort off"or "so ing to # of docun	ther to switch "sort on rt off \rightarrow sort on" accord- nents or the operation.
2	Select priority in staple	Bit 2-1:	00	No	
1	mode.		01	Corner staple	
			10	2-point staple	
			11	Center staple	

MODE		Factory setting bit								
413	Bit:	7 0	6 0	5 0	4 0	3 0	2 1	1 0	0 0	HEX:04

Dit	Footuro	Lo	gic		Description
Dit	reature	0	1		Description
7	Select FAX (G3-1) output bin. *	Bit 7-6:	00	First tray output	 Specify a tray to where FAX (G3-1)
6			01	Second tray output	document is delivered to when the finisher
			10	Additional bin output	 "Additional bin output" is valid only when the
			11	Not available	additional bin is attached.
5	Select PC print output bin.	Bit 5-4:	00	First tray output	 Specify a tray to where PC print is
4			01	Second tray output	printed out when the finisher is attached.
			10	Additional bin output	is valid only when the additional bin is
			11	Not available	attached.
2	Select copy output bin. *	Bin 1	Bin 2	Specify a bin to is delivered to has been attac	where copied document when the job separator hed.
1	Select FAX (G3-1) output bin. *	Bin 1	Bin 2	Specify a bin to ument is delive tor has been a	o where faxed (G3-1) doc- red when the job separa- ttached.
0	Select PC print output bin. *	Bin 1	Bin 2	Specify a bin to ered to when the attached.	o where PC print is deliv- ne job separator has been

[•] The features with (*) are settable by users. *: Screen setting

MODE		Factory setting bit								
414	Bit:	7 1	6 0	5 1	4 0	3 2 1 0 0 0 0 0	HEX:A0			

Bit	Foaturo	Lo	gic		Description
Dit	reature	0	1		Description
7	Select image compres-	Bit7-4:	0101	0.5	Shows image compres-
6	sion ratio for reserving		0110	0.6	sion ratio per copied
5	into copy memory.	0111		0.7	into copy memory.
4			1000	0.8	Reserve necessary
		1001		0.9	capacity of memory for
			1010	1.0	sion ratio before starting
			1011	1.1	scanning.
			1100	1.2	
			1101	1.3	
			Others	Not available	

MODE	Factory setting bit									
415	Bit:	7 0	6 1	5 1	4 0	3 1	2 1	1 0	0 0	HEX:6C

Bit	Footuro	L	ogic		Description
Bit	reature	0	1		Description
7	Select sound volume 1.	Bit 7-5:	000	0 (No sound)	6 stage adjustment of
6	(Buzzer) *		001	1	key buzzer
5			010	2	
			011	3	
			100	4	
			101	5	
			Others	Not available	
4	Select sound volume 2.	Bit 4-2:	000	0 (No sound)	6 stage adjustment for
3	(Alarm) *		001	1	alarm
2			010	2	
			011	3	
			100	4	
			101	5]
			Others	Not available]

MODE		Factory setting bit								
416	Bit:	7 0	6 1	5 1	4 0	3 0	2 0	1 0	0 0	HEX:60

Rit	Footuro	Lo	gic		Description	
Bit	reature	0	0 1		Description	
7	Select sound volume 3.	Bit7-5:	000	0 (no tone)	6 stage adjustment of	
6	(Monitor) *		001	1	line monitor	
5			010	2		
			011	3		
			100	4		
			101	5		
			Others	Not available		
4	Direction alignment for images when the finisher is attached *	No	Yes	Specify the dire when the finish	ection for image output er is attached.	
0	Disable sleep off. *	Yes	No	Specifies whet to "No power s	her MODE 406 can be set ource off."	

• The features with (*) are settable by users. *: Screen setting

MODE		Factory setting bit								
417	Bit:	7 0	6 1	5 1	4 0	3 0	2 0	1 1	0 1	HEX:63

Dit	Footuro	Lo	ogic	Description		
DIL	realule	0	1		Description	
7	Restrict # of papers. (Copy) *	No Yes		Specifies whet	her to restrict # of copies.	
6	Selects # of papers to be	Bit6-0:	0000001	1	Specifies # of papers	
5	restricted. (Copy) *				when MODE 417 Bit 7 is	
4			1100011	99	set to res.	
3			Others	Not available		
2						
1						
0						

NOTE

• The features with (*) are settable by users. *: Screen setting

MODE		Factory setting bit								
418	Bit:	7 0	6 1	5 0	4 1	3 1	2 0	1 0	0 0	HEX:58

Bit	Feature	Lo	gic		Description		
Dit	I cature	0	1	Description			
6	Document erase width.	Bit 6-5:	00	0 mm			
5			01	1 mm			
			10	2 mm			
			11	3 mm			
4	Stop when the lifetime of imaging unit ends.	Stop	Do not stop	Specify operation when the lifeting	on (stop or not stop) ne of imaging unit ends.		
3	Display a message when the status of the imaging unit is "near life".	Do not display	Display	Specify operation when the status when life".	on (display or not display) s of the imaging unit is		

FK-503

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MODE	Factory setting bit									
419	Bit:	7 0	6 1	5 0	4 0	3 0	2 0	1 0	0 0	HEX:40

Bit	Feature	l	ogic		Description
Dit	reature	0	1		Description
7	Select a copy output bin. *	Bit7-6:	00	First tray out- put	Specify a tray to where printed docu-
6			01	Second tray output	when the finisher is attached
			10	Additional bin output	 "Additional bin output is valid only when the
			11	Not available	additional bin is attached.
5	Select a FAX (G3-2) out- put bin. *	Bit5-4:	00	First tray output	 Specify a tray to where FAX (G3-2)
4			01	Second tray output	document is delivered to when the finisher
			10	Additional bin output	 "Additional bin output" is valid only when the
			11	Not available	additional bin is attached.
3	Select a FAX (network) output bin. *	Bit3-2:	00	First tray output	
2			01	Second tray output	
			10	Additional bin output	
			11	Not available	-
1	Select FAX (G3-2) output bin. *	Bin 1	Bin 2	Specify a bin to ment is deliver has been attac	o where FAX (G3-2) docu- ed when the job separator ched.
0	Select FAX (network) out- put bin. *	Bin 1	Bin 2	Specify a bin to document is do arator has bee	o where FAX (network) elivered when the job sep- n attached.

MODE	Factory setting bit									
420	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Rit	Foaturo	Lo	gic	Description		
Dit	reature	0	1			
7	Auto-clear confirmation	Bit 7-0:	00000000	Function off	10-second steps	
6	time *		00000001	00001 10 sec		
5			00000010	20 sec		
4						
3			00011110	300 sec		
2			Others	Not available		
1						
0						

MODE	Factory setting bit									
422	Bit:	7 0	6 0	5 0	4 0	3 1	2 0	1 0	0 0	HEX:08

Dit	Feature	L	.ogic	Description						
DIL	reature	0	1							
7	Total counter.	Bit 7-6: 00		Mode 1 (std)	Specifies a counting					
6	6		01	Mode 2	method of total counter.					
			10	Mode 3						
			Others	Not available						
5	Size counter.	Bit 5-3:	000	Do not count	Specifies sizes of papers					
4					to be counted by size					
3			001	A3, 11x17						
			010	A3, B4, 11×17, Legal						
			011	A3, B4, FLS, 11×17, Legal, 11×14						
			100	A6						
			Others	Not available						
2 1	Copy Kit counter. (Copy)	Bit 2-1:	00	Mode 1 (Do not coun	t) Select whether to set counting or not for					
			01	Mode 2 (Count and permits co ing even when the set value is reached.)	the Copy Counter and select whether to inhibit the initiation of a new copy cycle or not when the cur-					
			10	Mode 3 (Count and inhibits co ing when the s value is reache	the set value. py- et ed.)					
		1	11	Not available						
MODE						Fact	ory	sett	ting bit	
------	------	--------	--------	--------	--------	--------	--------	--------	----------	--
423	Bit:	7 0	6 1	5 0	4 0	3 1	2 1	1 0	0 0	HEX:4E (For U.S.) HEX:4C (For Europe)

Bit	Feature	Lo	gic	Description
Dit	reature	0	1	Description
7	Plug-in counter mode. (Copy) *	Paper count	Copy count	Sets plug-in counter threshold value, and reads the counter.
6	Key counter. (Copy) *	Available (copying is prohib- ited.)	Not available (copying is permit- ted.)	Sets whether to use key counter.
3	Document size detection option *	Yes	Νο	Specifies whether document size sen- sors can be used in the inchcorrespond- ing option.
1	LCT paper size *	A4	Letter	
0	Automatically adjust the transfer current of image	Yes	No	

MODE		Factory setting bit								
424	Bit:	7 0	6 0	5 0	4 1	3 0	2 0	1 0	0 0	HEX:10

Rit.	Foaturo	Lo	gic	Description
Dit	reature	0	1	Description
7	Metric and inch mixed modes. (Copy)	Mixed	Limited	Specifies whether to round off document sizes for the system specification in auto paper mode.
4	Restrict print mode. (Copy)	Yes	No	Specifies whether to disable "!2-Sided Copy" in priority copy mode.
3	Print small size document. (Copy) *	Copy dis- abled	Copy enabled	Specifies whether to generate a warning when a document smaller than that detectable by document size sensors is loaded.
2	Restrict function. (Copy)	No	Yes	Specifies whether to disable some of copy functions (application, doc copy).

MODE		Factory setting bit									
425	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00	

Bit	Feature	Lo	ogic	Description				
Dit	reature	0	1	Description				
6	Select FLS size. (Copy) *	Bit 6-4:	000	210×330	Specify size of FLS used			
5			001	203×330	with in the machine.			
4			010	216×330				
			011	220×330				
3	Adjust image quality	Bit 3-0:	0000		Specifies the density of			
2	mode. (Copy)				image at printing.			
1			1000		1, [*] key is displayed.			
0			Others	Not available				

• The features with (*) are settable by users. *: Screen setting

MODE		Factory setting bit									
426	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:50 (For U.S.) HEX:00 (For Europe)	

Rit	Footuro	Lo	gic	Doc	vintion	
Dit	reature	0	1	Description		
7	Movement finisher bin	Not avail- able	Available			
6	Set mixed AMS sheets without printing *	No	Yes			
5		Bit 5-0:	010000			
4			Others	Not available		
3						
2						
1						
0						

NOTE

• The features with (*) are settable by users. *: Screen setting

MODE						Fact	ory	set	ting bit	
429	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00 (For U.S.) HEX:04 (For Europe)

Di+	Footuro	Lo	gic		Description
Dit	reature	0	1		Description
7	Set drum dry when engine power is on	Not exe- cute	Execute	Set whether to Photo mode wh	switch automatically to nen selecting OHP trans-
6	Correspond to OHP offset	Not Switch F switch quality quality mode mode		parencies.	
5	Automatically reset values on the basic screen at completion of copying using the document feeder. <*>	Νο	Yes		
4	Set curl correction	Bit 4-3:	00	Not control	
3			01	All-environ- ment control	
			10	Control for HH, LL envi- ronments	
			11	Not available	
2	Correspond to fluores- cent lamp flickering	Control	Not con- trol		
1	Setting of time that fan	Bit 1-0:	00	20 sec	
0	spin at full speed.		01	55 sec	
			10	10 min	
			11	Not available	

[•] The features with (*) are settable by users. <*>: Soft switch setting

MODE		Factory setting bit									
432	Bit:	7 0	6 0	5 0	4 0	3 0	2 1	1 0	0 1	HEX:05	

Bit.	Footuro	Lo	gic	Dosori	ntion
Dit	reature	0	1	Descri	ption
7	Wait time (M) at full memory of PC print	Bit7-0:	0000000	Immediately delete	
6	(Set range: 0, 1 to 30 minutes		00000001	1 min	
5			00000010	2 min	
4	PC print job is deleted when				
3	the wait time at full memory		00000101	5 min	
2	expires.				
1			00011110	30 min	
0			Others	Not available	

MODE					F	actor	ry s	ettin	g bit	
433 (Display)										
434 (for machine)	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:04
435 (Communication)										

Bit	Footuro	Lo	gic		Description	
Dit	reature	0	1		Description	
7	Language selected *	Bit 7-2:	000000	Japanese	(Display-use)	
6			000001	English	Select the language to	
5			Others	Not available	panel.	
4				(Machine -us	(Machine -use)	
3					Select the language for	
2					ity report (TX/RX), etc. (Network-use) Select the language to use for e-mail transmis- sion.	

- The features with (*) are settable by users. *: Screen setting
- The * mark (Screen setting) does not apply to MODE 435 (Network-use).

MODE						Fact	ory	set	ting bit	
440	Bit:	7 0	6 0	5 0	4 0	3 0	2 1	1 0	0 0	HEX:12 (For U.S.) HEX:04 (For Europe)

D:4	Feeture	Lo	gic	Description
ы	reature	0	1	Description
7	PDL set of PC print *	Bit 7-6:	00	Auto
			01	PCL
6			10	PS
			11	Others
5	Paper size set of PC print *	Bit 5-1:	00000	A3
4			00001	B4
3			00010	A4
2			00011	B5
1			00100	A5
			00101	B6
			00110	A6
			00111	5 1/2 x 8 1/2
			01000	Exec.
			01001	Letter
			01010	11 x 17
			01011	FLS 1
			01100	FLS 2
			01101	FLS 3
			01110	FLS 4
			01111	Legal
			10000	11 x 14
			10001	Envelope B5
			10010	Envelope Com10
			10011	Envelope C5
			10100	Envelope DL
			10101	Envelope Monarch
			10110	J-POST (Hagaki)
			10111	Custom paper
			11000	K16
			11001	K8
			Others	Not available

MODE		Factory setting bit								
441	Bit:	7 1	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX: 80

Dit	Footuro	L	ogic	Description
DIL	reature	0	1	Description
7	Select a paper feeder cas-	Bit 7-4:	0000	Tray 1
6	sette to use when using PC		0001	Tray 2
5			0010	Tray 3
4			0011	Tray 4
			1000	Auto
			1010	Bypass
			1100	LCT
			Others	Not available
3	Select a paper orientation to	Bit 3-2:	00	Portrait
2	set when using PC printer		01	Landscape
			Others	Not available
1	Select a print method to use	Bit 1-0:	00	1-sided print
0	when using PC printer func-		01	2-sided print for short-edge binding
			10	2-sided print for long-edge binding
			11	Not available

• The features with (*) are settable by users. *: Screen setting

MODE		Factory setting bit									
442	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 1	HEX: 01	

Rit	Foaturo	Lo	gic	Description
Dit	reature	0	1	Description
7	Select # (last 8 bits) of copies	Bit 7-0:	00000000	Not available
6	to print by PC printer *		00000001	1
5				
4			11100111	999
3				
2			11111111	
1				
0				

NOTE

• The features with (*) are settable by users. *: Screen setting

MODE		Factory setting bit								
443	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX: 00

Bit	Feature	Lo	gic	Description
Dit	reature	0	1	Description
1	Select # (first 2 bits) of copies	Bit 1-0:	00	1
0	to print by PC printer *			
			11	999

MODE		Factory setting bit							
444	Bit:	7 6 0 0	55 00	4 0	3 0	2 0	1 0	0 0	HEX:00

Dit	Footuro	Lo	ogic	Description	
DIL	reature	0	1	Description	
7	Select a font # to be	Bit7-1:	0000000	Courier	
6	set when using PC		0000001	CG Times	
5			0000010	CG Times Bold	
4			0000011	CG Times Italic	
3			0000100	CG Times Bold Italic	
2			0000101	CG Omega	
1			0000110	CG Omega Bold	
			0000111	CG Omega Italic	
			0001000	CG Omega Bold Italic	
			0001001	Coronet	
			0001010	Clarendon Condensed	
			0001011	Univers Medium	
			0001100	Univers Bold	
			0001101	Univers Medium Italic	
			0001110	Univers Bold Italic	
			0001111	Univers Condensed Medium	
			0010000	Univers Condensed Bold	
			0010001	Univers Condensed Medium Italic	
			0010010	Univers Condensed Bold Italic	
			0010011	Antique Olive	
			0010100	Antique Olive Bold	
			0010101	Antique Olive Italic	
			0010110	Garamond Antiqua	
			0010111	Garamond Halbfett	
			0011000	Garamond Kursiv	
			0011001	Garamond Kursiv Halbfett	
			0011010	Marigold	
			0011011	Albertus Medium	
			0011100	Albertus Extra Bold	
			0011101	Arial	
			0011110	Arial Bold	
			0011111	Arial Italic	
			0100000	Arial Bold Italic	
			0100001	Times New Roman	
			0100010	Times New Roman Bold	
			0100011	Times New Roman Italic	

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Rit	Footuro	Lo	gic	Description	
Dit	reature	0	1	Description	
1			0100100	Times New Roman Bold Italic	
			0100101	Helvetica	
			0100110	Helvetica Bold	
		0100111		Helvetica Oblique	
		0101000		Helvetica Bold Oblique	
			0101001	Helvetica Narrow	
			0101010	Helvetica Narrow Bold	
			0101011	Helvetica Narrow Oblique	
		0101100		Helvetica Narrow Bold Oblique	
			0101101	Palatino Roman	
			0101110	Palatino Bold	
			0101111	Palatino Italic	
			0110000	Palatino Bold Italic	
			0110001	ITC Avant Garde Gothic Book	
			0110010	ITC Avant Garde Gothic Demi	
			0110011	ITC Avant Garde Gothic Book Oblique	
			0110100	ITC Avant Garde Gothic Demi Oblique	
			0110101	ITC Bookman Light	
			Others	Not available	

MODE	Factory setting bit									
445	Bit:	7 0	6 1	5 0	4 0	3 1	2 1	1 0	0 0	HEX:74 (For U.S.) HEX:4C (For Europe)

Dit	Facture	Lo	ogic	Description
DIL	reature	0	1	Description
7	Symbol Set	Bit7-2:	000000	Desktop
6	(PC print) *		000001	ISO 4: United Kingdom
5			000010	ISO 6: ASCII
4			000011	ISO 11: Swedish
3	-		000100	ISO 15: Italian
2			000101 ISO 17: Spanish	
			000110	ISO 21: German
			000111	ISO 60: Norwegian V1 ISO 60: Danish/Norw
			001000	ISO 69: French
			001001	ISO 8859/1 Latin1
			001010	ISO 8859/2 Latin2
			001011	ISO 8859/9 Latin5
			001100	ISO 8859/10 Latin 6
			001101	ISO 8859/15 Latin 9
			001110	Legal
			001111	Math-8
			010000	MC Text
			010001	Microsoft Publishing
			010010	PC-775
			010011	PC-8, Code Page 437
			010100	PC-850 Multilingual
			010101	PC-852 Latin 2
			010110	PC-858 Multilingual
			010111	PC-8 Turkish
			011000	PC-8 Danish/Norw
			011001	PC-1004
			011010	PI Font
		011011		PS Math
			011100	PS Text
			011101	Roman-8
			011110	Windows 3.0 Latin 1
			011111	Windows Baltic
			100000	Windows 3.1 Latin 1
			100001	Windows 3.1 Latin 2

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Bit	Feature	Lo	gic	Description	
	reature	0	1	Description	
2		100010		Windows 3.1 Latin 5	
		100011		PC-866	
		Others		Not available	

• The features with (*) are settable by users. *: Screen setting

MODE	Factory setting bit									
446	Bit:	7 0	6 1	5 0	4 0	3 0	2 0	1 0	0 0	HEX:3C (For U.S.) HEX:40 (For Europe)

Bit	Foaturo	Lo	gic	Description		
Dit	reature	0	1	Description		
7	Number Lines	Bit 7-0:	00000100	4		
6	(PC print) *		00000101	5		
			00111100	60		
5						
4			0100000	64		
3			1000000	128		
2			Others	Not available		
1						
0						

NOTE

• The features with (*) are settable by users. *: Screen setting

MODE	Factory setting bit									
447	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX: 00

Di+	Footuro	Lo	gic	Description	
Dit	reature	0	1	Description	
7	Select the unit of font size to use when using PC printer function *	Pitch	Point		

NOTE

MODE		Factory setting bit								
448	Bit:	7 0	6 0	5 1	4 1	3 0	2 0	1 0	0 0	HEX:30

Bit	Feature	Lo	gic	Description		
Dit	reature	0	1	2 3001121011		
7	Select font size to use	Bit 7-0:	00000000			
6	when using PC printer		00010000	4.00 (16)		
5	(Scalable font size)					
4	(Last 8 bits) *		00110000	12.00 (48)		
3						
2			11111111			
1						
0						

• The features with (*) are settable by users. *: Screen setting

MODE		Factory setting bit								
449	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Bit	Footuro	Lo	gic		Description
Dit	reature	0	1		Description
3	Select a font size to use	Bit 3-0:	0000		
2	when using PC printer				
1	(Scalable font size)		1111	999.75 (3999)	
0	(First 8 bits) *				

NOTE

• The features with (*) are settable by users. *: Screen setting

MODE		Factory setting bit								
450	Bit:	7 1	6 1	5 1	4 0	3 1	2 0	1 0	0 0	HEX:E8

Bit	Foaturo	Lo	gic		Description
Dit	reature	0	1		Description
7	Select font size to use	Bit 7-0:	00000000		
6	when using PC printer		00101100	0.44 (44)	
5	(Bitmap font size)				
4	(Last 8 bits) *		11101000	10.00 (1000)	
3					
2			10101100	99.00 (9900)	
1					
0			11111111		

• The features with (*) are settable by users. *: Screen setting

MODE		Factory setting bit								
451	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 1	0 1	HEX:03

Di+	Foaturo	Lo	gic		Description
Dit	reature	0	1		Description
5	Select font size to use	Bit 5-0:	000000		
4	when using PC printer		000011	10.00 (1000)	
3	(Bitmap font size)				
2	(First 6 bits) *		100110	99.0 (9900)	
1					
0					

NOTE

MODE		Factory setting bit								
452	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Bit	Footuro	Lo	gic	г	A contraction
Dit	reature	0	1		description
7	Change between A4 and Letter size for PC printing *	No	Yes		
6	Set paper tray fixed/ prior- ity of PC print	Priority	Fixed		
5	CR/LF Mapping	Bit 5-4:	00	Not map	Specify mapping for the
4	(PC print) * <*>	01		Mode 1 CR->CRLF, LF=LF, FF=FF	line return control code.
			10	Mode 2 CR=CR, LF->CRLF, FF->CRFF	
			11	Mode 3 CR->CRLF, LF->CRLF, FF->CRLF	
0	Allow printing without a department instruction of PC print * <*>	Not avail- able	Allowed	Allow/not allow not a departme	PC printing when there is nt instruction.

• The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting

MODE		Factory setting bit								
453	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Rit	Footuro	Lo	gic	Description
Dit	reature	э О		Description
7	Set OFF or ON of Post- Script error printing to apply when using PC printer function *	OFF	ON	

NOTE

• The features with (*) are settable by users. *: Screen setting

MODE		Factory setting bit								
455	Bit:	7 0	6 0	5 1	4 0	3 1	2 1	1 0	0 0	HEX:2C

Bit	Feature	Lo	gic		Description
Dit	reature	0	1		Description
7	Select timeout timer (last	Bit 7-0:	00001010	10 sec	
6	8 bits) for PC printing *		00001111	15 sec	
5					
4			00101100	300 sec	
3					
2			Others	Not available	
1					
0					

• The features with (*) are settable by users. *: Screen setting

MODE					F	acto	ry s	ettir	ng bit	
456	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 1	HEX:01

Rit	Fosturo	Lo	gic		Description
Dit	reature	0	1		Description
1	Select timeout timer (first	Bit1-0:	00	0 sec	Most significant bit for
0	2 bit) for PC printing *		01	300 sec	mode 455
			Ι		
			11	1000 sec	

NOTE

MODE					F	acto	ry se	ettin	g bit	
464	Bit:	7 1	6 0	5 0	4 0	3 1	2 1	1 0	0 0	HEX:8C

Bit	Feature	Lo	gic		Description	
Dit	reature	0	1			
7	Select RAW port number	Bit 7-0:	00000000	Not available		
6	(last 8 bits). *					
5			10001100	9100		
4						
3			11111111	65535		
2						
1						
0						

• The features with (*) are settable by users. *: Screen setting of IT Series Agent

MODE					F	acto	ry s	etti	ng bit	
465	Bit:	7 0	6 0	5 1	4 0	3 0	2 0	1 1	0 1	HEX:23

Bit	Footuro	Lo	gic		Description		
		0 1		Description			
7	Select RAW port number	Bit 7-0:	0000000	0	Most significant bit for		
6	(first 8 bits). *				mode 464		
5			00100011	9100			
4							
3			11111111	65535			
2							
1							
0							

NOTE

• The features with (*) are settable by users. *: Screen setting of IT Series Agent

MODE					F	acto	ry se	ettin	g bit	
466	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Bit	Feature	Lo	gic		Description
Dit	reature	0	1		Description
6	Enable LDAP search * <*>	No	Yes	Set whether to	enable LDAP searching.
5	Select default LDAP server * <*>	Bit 5-3:	000	LDAP Server 1	Select a default server for LDAP searching.
4			001	LDAP Server 2	
3			010	LDAP Server 3	
			011	LDAP Server 4	
			100	LDAP Server 5	
			Others	Not available	
0	Set to use SSL/TLS with HTTP * <*>	Not use	Use	Set whether to	use SSL/TLS with HTTP.

[•] The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting

MODE					F	actor	y se	ettin	ig bit	
467	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Bit	Foaturo	Lo	gic		Description	
Dit	reature	0	1	Description		
7	Select frame type for PC	Bit7-5:	000	AUTO-detect		
6	printing *		001	Ethernet-II		
5			010	802.2		
			011	802.3		
			100	SNAP		
			Others	Not available		

NOTE

MODE					F	actor	y se	ettin	g bit	
470	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Bit	Feature	Lo	gic	Description		
Dit	reature	0	1	Description		
7	Setting export extension <*>	тхт	CSV	Set the export file extension for the IP Series Agent export function to CSV or TXT.		
6	Setting simplified format <*>	OFF (mode 1)	ON (mode 2)	Set to perform the IP Series Agent import/export function by full format (including fax program registration) or simple format (excluding fax program registration).		
5	Enable/disable IT Series Agent function <*>	Enable	Disable	Set whether to enable the IP Series Agent function.		
4	PageScope Data Admin- istratorÇÃégóp	Use	Not use			

• The features with (*) are settable by users. <*>: Soft switch setting

MODE		Factory setting bit								
471	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Bit	Footuro	Lo	gic		Description	
Dit	reature	0	1	Description		
2	Set whether to display the user's list screen, and the	Bit2-1:	00	Not display list screen	Specify whether to dis- play the user's list	
1	1 default screen * <*>		default screen * <*> 01 Display list screen, entry screen default	screen for machine authentication, and select the default screen		
			11	Display list screen, list screen default	screen.	

NOTE

• The features with (*) are settable by users. *: Screen setting <*>: Soft switch setting

MODE		Factory setting bit								
473	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Bit	Feature	Lo	gic	Description
Dit	reature	0	1	Description
7	Set priority Job List screen <*>	Display by status	Display by print order	Set whether to prioritize the print order display.

• The features with (*) are settable by users. <*>: Soft switch setting

MODE		Factory setting bit								
477	Bit:	7 0	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:00

Dit	Footuro	Lo	gic		Deserie	tion
DIL	realure	0	1		Descrip	uon
				Fax regis- tration/ Report output restriction	Destina- tion dis- play	Fax registration / report output restriction "Administrator only":
6	Set fax registration restric- tion and destination dis- play <*>	Bit6-5:	00	Allow user	Display Tel. No./ Address	Fax registration and report output
5			01	Not avail- able	Not avail- able	the Admin.Man- agement menu.
			10	Adminis- trator only	Display Tel. No./ Address	Destination dis- play "Display one-touch
			11	Adminis- trator only	Display one-touch name	name : Display registered one- touch names for destinations specified for one- touch keys, Job List, destination names of result reports, and Activity Report (TX). (Do not dis- play the tel. no./ address of the destination.)

NOTE

• The features with (*) are settable by users. <*>: Soft switch setting

MODE	Factory setting bit									
512	Bit:	7 1	6 0	5 0	4 0	3 0	2 0	1 0	0 0	HEX:80

Bit	Feature	Lo	gic	Description
	reature	0	1	Description
7	Detect dial tone (DT)	No	Yes	

MODE		Factory setting bit								
768	Bit:	7 0	6 0	5 0	4 0	3 1	2 1	1 0	0 1	HEX:0D

Rit.	Footuro	Lo	gic		Description	
Bit	reature	0	1			
7	Soft timer adjustment	Bit 7-0:	0000000	Not available		
6	value between DCS and		00000001	5 msec		
5						
4			00001101	65 msec		
3						
2			11111111	1275 msec		
1						
0						

MODE		Factory setting bit								
769	Bit:	7 0	6 0	5 0	4 0	3 1	2 0	1 0	0 1	HEX:09

Bit	Feature	Lo	gic		Description
Dit	reature	0	1		Description
7	Soft timer adjustment	Bit 7-0:	00000000	Not available	
6	value between DCS and		00000001	5 msec	
5	101 111 1.23				
4			00001001	45 msec	
3					
2			11111111	1275 msec	
1					
0					

MODE						Fact	ory	set	ting bit	
770	Bit:	7 0	6 0	5 1	4 0	3 0	2 0	1 1	0 0	HEX:22 (For U.S.) HEX:C8 (For Europe)

Rit	Foaturo	Lo	gic		Description			
Dit	reature	0	1		Decemption			
7	Interval between CFR and	Bit 7-0:	00000000	Not available				
6	PIX		0000001	5 msec				
5								
4			00100010	170 msec				
3								
			11001000	1000 msec				
2			11111111	1275 msec				
1								
0								

MODE		Factory setting bit								
771	Bit:	7 0	6 0	5 1	4 0	3 0	2 0	1 1	0 1	HEX:23

Bit	Feature	Lo	gic		Description			
Dit	reature	0	1					
7	T1 timer for automatically	Bit 7-0:	00000000	Not available				
6	sending packets		00000001	1 sec				
5								
4			00100011	35 sec				
3								
2			11111111	255 sec				
1								
0								

MODE					F	actor	y se	ettir	ig bit	
772	Bit:	7 0	6 0	5 1	4 0	3 0	2 0	1 1	0 1	HEX:23

Bit	Feature	Lo	gic		Description	
Dit	reature	0	1		Booonpaon	
7	T1 timer for automatically	Bit 7-0:	00000000	Not available		
6	receiving packets		00000001	1 sec		
5						
4			00100011	35 sec		
3						
2			11111111	255 sec		
1						
0						

MODE		Factory setting bit								
773	Bit:	7 0	6 0	5 1	4 0	3 0	2 0	1 1	0 1	HEX:23

Bit	Feature	Lo	gic		Description		
Dit	reature	0	1	Decemption			
7	T1 timer for manually	Bit 7-0:	00000000	Not available			
6	sending packets		00000001	1 sec			
5							
4			00100011	35 sec			
3							
2			11111111	255 sec			
1							
0							

MODE					F	actor	y se	ettin	ig bit	
774	Bit:	7 0	6 0	5 1	4 0	3 0	2 0	1 1	0 1	HEX:23

			aio		
Bit	Feature	LU	gic		Description
BR	roddio	0	1		Booonpaon
7	T1 timer for manually	Bit 7-0:	00000000	Not available	
6	receiving packets		00000001	1 sec	
5			_		
4			00100011	35 sec	
3					
2			11111111	255 sec	
1					
0					

MODE					F	actor	y se	ettin	ig bit	
775	Bit:	7 0	6 0	5 1	4 0	3 0	2 0	1 1	0 1	HEX:23

Bit	Feature	Lo	gic		Description	
Dit	reature	0	1	Decemption		
7	T1 timer for automatically	Bit 7-0:	0000000	Not available		
6	sending polling packets		00000001	1 sec		
5						
4			00100011	35 sec		
3						
2			11111111	255 sec		
1						
0						

MODE	Factory setting bit									
776	Bit:	7 0	6 0	5 1	4 0	3 0	2 0	1 1	0 1	HEX:23

Bit	Feature	Lo	gic	Description				
Dit	reature	0	1		Description			
7	T1 timer for manually	Bit 7-0:	00000000	Not available				
6	sending polling packets		00000001	1 sec				
5								
4			00100011	35 sec				
3								
2			11111111	255 sec				
1								
0								

MODE						Fact	ory	set	ting bi	t
777	Bit:	7 0	6 0	5 0	4 0	3 0	2 1	1 1	0 1	HEX:07 (For U.S.) HEX:08 (For Europe)

Bit	Feature	Lo	gic		Description		
Dit	reature	0	1		Description		
7	Interval between PIX and	Bit 7-0:	00000000	Not available			
6	post command		00000001	45 msec			
5							
4			00000111	75 msec			
3							
			00001010	90 msec			
2			11111111	1315 msec			
1							
0							

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Troubleshooting

12. Troubleshooting

12.1 Diagnosis by Alarm Code

Setting up diagnostic code display

- This section shows diagnoses of system troubles by alarm codes and their remedies.
- The default setting for diagnostic codes is "not to be displayed." If you experience errors frequently, setup the soft switch (MODE 020) to display diagnostic codes. Then follow communication error codes tables for troubleshooting.
- Communication error codes tables shows communication error codes. Each of them has 6-digits on the panel and a report.
 Codes 00 to B4 indicate the upper 2 digits. Adding internal 4 digits to them to display 6

Codes 00 to B4 indicate the upper 2 digits. Adding internal 4 digits to them to display 6 digits on the panel and a report.

Communication reports (TX and RX) print out diagnostic codes for up to 50 activities. Any codes older than those activities cannot be printed.

NOTE

• Before you proceed with a remedy according to the tables, make sure that the power source cable and the connectors are connected properly.

MODE 020								
Bit3	Meaning							
0	Do not display codes.							
1	Displays codes.							

NOTE

• See Section "Soft Switch List" for setting up soft switches.

12.2 Communication Error Codes

NOTE

• Cause - Re: Remote, Li: Line, Lo: Local

12.2.1 Errors in operations

Code	Des	scription	Cause	Re	Li	Lo	Remedy
00	Received ument in l	DIS but no doc- ocal terminal	Error in operation			0	Reload a document and retry TX.
	 Polling Re requested Software f connection 	aception is failure at time of n	Error in operation at remote end	0			Ask to reload a document and retry TX.
01	 Document transmittir Document small 	t pulled out while ng. t size was too	Error in operation			0	Reload a correct document and retry TX.
02	 Illegal dial (Example; 	ing operation dialing * or #	Error in setting up			0	Check the soft switch (MODE 006 Bit5 & MODE 011 Bit 5).
	with DP se	etting)	Error in registration			0	Check the registered one- touch dialing number.
03	 Mismatche 	ed TX password	Sender's password and receiver's are not matched.	0		0	Check the group password of both sides.
04	 Mismatche 	ed RX password	Sender's password and receiver's are not matched.	0		0	Check the group password of both sides.
05	 Mismatche while polli 	ed password ng	Incorrect password was entered for set- ting up polling.			0	Check the status of the remote machine and the local password.
06	 Remote sy relay function 	ystem has no tion	Failure in remote machine	0			Check the status of the remote machine.
07	 Remote sy confidentia tion function 	ystem has not al communica- on	Failure in remote machine	0			Check the status of the remote machine.
09	 Incompatilino docum 	bility (Example; ent in local sys-	Error in operation on remote side	0			Ask the remote end to reload the document again.
	 TX failure 	due to mis-	Transmission speeds are set 4800/2400 bps.				Check the soft switch (MODE 049 Bit 4 -0).
	type and/o speed	or transmission	Remote machine has only V.29.			0	Check the maximum trans- mission speed for each one- touch dialing (only for regis- tration in maintenance fea- tures).
10	Error in F	code TX	Failure in remote machine	0			Check the status of the remote machine.
11	Error in F	code RX	Failure in remote machine	0			Check the status of the remote machine.

12.2.2 Terminal alarm

Code	Description	Cause	Re	Li	Lo	Remedy
45	Memory overflow or nearly full	Memory overflows or nearly full			0	Reset the terminal alarm and ask the remote end for resending.
46	 Document jamming 	Feeding is not working continuously.			0	Reload a document.
		Jamming in a long document or in the middle of a page (Feeding is not com- pleted even if feeding exceeds 1 m.)			0	Reload a document.
47	 "No print paper" or "Side 	Out of print paper			0	Load print paper.
	cover opened" were detected	Side cover was opened while RX			0	Close the side cover.

12.2.3 Communication errors (TX)

Code	Description	Cause	D -	1 :		Remedy
33	Protocol failure in V.34	Failure in remote	ке о	LI	LO	Try another remote machine.
	sequence	machine		0		Try another line
70	 Busy tone while waiting for initial identification signal 	Failure in remote machine	0	•		Try another remote machine.
	 Timeout or modem failure while detecting 2nd dialing tone Cannot dial due to dialing/ ringing conflict T1 timeout while waiting for initial identification sig- nal when FAX signal is not detected 	Line failure		0		Try another line.
71	 T1 timeout while waiting for initial identification sig- 	Failure in remote machine	0			Try another remote machine.
	 nal atter FAX signal is detected Detected reverse polarity while waiting for initial identification signal 	Line failure		0		Try BACK to BACK commu- nication.
72	 Received DCN in phase B while waiting for com- mands other than DCN 	Interruption or failure in remote machine	0			Check the remote system and retry TX.

Code	Description	Cause	Re	Li	Lo	Remedy
74	 Received DIS or DTC 3 times while waiting for 	Failure in remote machine	0			Try another remote machine.
	response to TCF	Line failure		0		Try another line.
	 No response even after sending TSI/DCS and 	Failure in FAX board			0	Replace FAX board
	TCF 3 times • Received FTT twice even TCF has lowest speed	Failure in MFBS board			0	Replace MFBS board
76	 Reverse polarity while waiting for signal other 	Failure in remote machine	0			Check the remote system and retry TX.
	than initial identification	Line failure		0		If same error will be experi- enced several times, set the soft switch (MODE 082 Bit 3) 0.
77	 No response to post mes- sage (T4 timeout) 	Failure in remote machine	0			Try another remote machine.
	 5 minute timeout in RNR, RR sequence (T5 timeout) 	No RTC detection in remote machine (line failure)		0		Try another line.
78	Received DCN while wait- ing for response to post message	Interruption or failure in remote machine	0			Check the status of the remote machine and retry TX.
79	 Received PIP for post message (For response to EOP or PPS-EOP, com- munication is normal even error code is displayed) 	Failure in remote machine	0			Check the status of the remote machine.
7A	 Received RTN for post message (where RTN 	Failure in remote machine	0			Check the status of the remote machine.
	reception is regarded as	Line failure		0		Check the line.
	 Retry out of resending error PPR frame error 	Failure in TX level			0	Check TX level.
7C	Received CRP 3 times for TCF	Failure in remote machine	0			Try another remote machine.
	 Received CRP 3 times for post message Received CRP 3 times for DTC of polling reception 	Line failure		0		Try another line.
7D	 RX command error (with- out cutting off carrier) 	Failure in remote machine	0			Check the status of the remote machine.
7F	 No remote machine response after changing mode (T1 timeout) 	Failure in remote machine	0			Check the status of the remote machine.
8F	 Received PIN for post message 	Failure in remote machine	0			Check the status of the remote machine.

12.2.4 Communication errors (RX)

Code	Description	Cause	Re	Li	Lo	Remedy
33	 Protocol failure in V.34 sequence 	Failure in remote machine	0			Try another remote machine.
		Line failure		0		Try another line.
91	 T1 timeout while waiting for initial identification sig- 	Failure in remote machine	0			Try another remote machine.
	nal	Line failure		0		Try another line.
92	Received DCN while wait- ing for commands other than DCN in phase B	Interruption or failure in remote machine	0			Check the status of the remote machine and retry TX.
95	 Detected low speed flag followed by 10 sec. time- 	Failure in remote machine	0			Try another remote system.
	out while waiting for detec- tion of image signal carrier (HMCD ON)	Line failure		0		Try another line.
96	 Carrier disconnected for 15 seconds while receiv- 	Error in remote machine	0			Ask for resending.
	ing G3 image signal	Failure in remote machine	0			Try another remote machine.
		Line failure		0		Try another line.
97	T2 timeout while waiting for post message	Error in remote machine	0			Try another remote machine.
	 T2 timeout while waiting for DCN after receiving last page No response from remote system after changing mode (T2 timeout) 	Accidental RTC detec- tion (line failure)		0		Try another line.
98	Received DCN while wait- ing for command other than DCN in phase D	Interruption or failure in remote machine	0			Ask for resending.
99	 Received PRI-Q as post message (Communica- tion is regarded as nor- mal even with error message) 	Failure in remote machine	0			Check the status of the remote machine.
9A	 Cannot decode line cor- rectly for 35 seconds while 	Failure in remote machine	0			Try another remote machine.
	receiving ECM image sig-	Line failure		0		Try another line.
		Failure in FAX board			0	Replace FAX board
		Failure in MFBS board			0	Replace MFBS board
9C	Received CRP 3 times while waiting for initial	Failure in remote machine	0			Try another remote machine.
	identification signal	Failure in FAX board			0	Replace FAX board
		Failure in MFBS board			0	Replace MFBS board
		Line failure		0		Try another line.

Code	Description	Cause		Re Li		Remedy
9D	 RX command error (with- out cutting off carrier) 	Failure in remote machine	0			Check the status of the remote machine.
9F • Interrup by EOR	 Interrupted page reception by EOR-Q or EOR-PRI-Q 	Failure in remote machine	0			Try another remote machine.
	signal from sender in ECM procedure (next page may be received completely because ECM procedure runs continuously)	Line failure		0		Reduce the initial transmis- sion speed and try resending.

12.2.5 Malfunction

Code	Description	Cause				Remedy
0000	Decemption	Cuuco	Re	Li	Lo	Romody
B0	Power source off	Power source switch was turned off			0	None.
		Power source failure			0	None.
		Defective power source supply unit			0	Replace the power source supply unit.
B2	 System failure (Examples; image data conver- 	Warm restart switch was pressed			0	None.
	sion failure and error in sequence timing)	Failure in FAX board			0	Replace FAX board
		Failure in MFBS board			0	Replace MFBS board
		Line failure		0		Check line noise and reception level.
B4	Modem failure	Document was not loaded for polling reception in V.34 mode	0			Check the document loaded in the remote side.
		Line failure		0		Check line noise and reception level.
		Failure in FAX board			0	Replace FAX board
		Failure in MFBS board			0	Replace MFBS board
B5	Modem failure (modem failure in V.8 sequence at	Line failure		0		Check line noise and reception level.
	RX)	Failure in FAX board			0	Replace FAX board
		Failure in MFBS board			0	Replace MFBS board
B6	 Modem failure (modem failure in V.8 sequence at 	Line failure		0		Check line noise and reception level.
	RX)	Failure in FAX board			0	Replace FAX board
		Failure in MFBS board			0	Replace MFBS board
B7	 System failure (Examples; image data conver- 	Warm restart switch was pressed			0	None.
	sion failure, error in	Failure in FAX board			0	Replace FAX board
	sequence uning	Failure in MFBS board			0	Replace MFBS board
		Line failure		0		Check line noise and reception level.

12.3 Diagnosis by Symptoms

• Possible causes of various problems and their remedies are shown below. Carry out troubleshooting according to this table.

Symptom	Item No.	Cause		Remedy	
Received image is stretched with ADF	1	Printed image is excessively	YES	Go to item 2.	
		 stretched in the copy mode? NOTE The following causes may be possible (improper document handling): special paper such as very thick paper, non-carbon print paper, carbon print paper. 	NO	Failure in remote terminal (improper document handling, error in the trans- mission unit of the remote terminal).	
	2	Is an image from the service cen- ter also stretched?	YES	Go to item 3.	
			NO	Go to item 4.	
	3	Any improvement after replacing MFBS board?	YES	Replace MFBS board.	
			NO	Replace the PWB-A	
	4	Is the contact of feed roller gears OK?	YES	Go to item 5.	
			NO	Replace the feed roller gear unit.	
	5	Any paper dust on feed rollers or pick-up rollers?	YES	Clean up rollers.	
			NO	Replace the leaf spring.	
Received image is shrunk too much.	1	Printed image is excessively shrunk in the copy mode?	YES	Go to item 2.	
			NO	Failure in the remote terminal (improper document handling, error in the trans- mission unit of the remote terminal).	
	2	Is an image from the service cen- ter also shrunk?	YES	Go to item 4.	
			NO	Go to item 3.	
	3	Any improvement after checking the reading unit?	YES	END	
			NO	Go to item 4.	
	4	Any improvement after replacing MFBS board?	YES	Replace MFBS board.	
			NO	Replace the PWB-A	
Received	2	Are copied image or a test image also too light or faded? NOTE • The following causes may be possible (improper setting of document contrast): a docu- ment with small blue charac- ters or file lines	YES	Go to item 2.	
image is too light or faded.			NO	Failure in the remote side (improper setting of document contrast, improper document handling, poor line condi- tion, and error in the transmission unit of the remote terminal).	
		Any improvement after replacing the imaging unit?	YES	Replace the imaging unit.	
			NO	For details see Main service manual "Image quality problem".	

Symptom	Item No.	Cause		Remedy	
Received image is squeezed	1	Are characters of copied image or a test image also squeezed? Improper setting of document contrast: Received image of small characters or blue copies with "contrast" switch set "Darker". Error in remote machine: The following causes are possi- ble: A. Failure in board of scanner unit B. Improper adjustment of opti- cal focus C. Dew on optical lenses (Proceed to anti-dew.)	YES	Failure in the remote side (improper setting of document contrast, and error in the transmission unit of the remote terminal).	
			NO	Go to item 2.	
	2	Any improvement after replacing	YES	Replace the imaging unit.	
		the imaging unit?	NO	For details see Copier service manual "Image quality problem".	
Clock mal-	1	No improper operation?	YES	Refer User's Guide for operation.	
functions			NO	Go to item 2.	
	2	Any improvement after replacing RAMS board?	YES	Replace RAMS board.	
			NO	Go to item 3.	
	3	Any improvement after replacing	YES	Replace MFBS board.	
		MFBS board?	NO	Replace the PWB-A.	
Neither	1	Is an alarm message on screen?	YES	Correct the failure and reset the alarm.	
"Sending" nor "Receiving"			NO	Go to item 2.	
are displayed.	2	Is the external telephone on- hooked?	YES	Go to item 3.	
			NO	Set the external telephone off-hook then press the communication switch.	
	3	Are you printing something such as report?	YES	Proceed to communication after com- pleting print jobs.	
			NO	Go to item 4.	
	4	Any improvement after replacing Operating panel?	YES	Replace Operating panel.	
			NO	Go to item 5.	
	5	Any improvement after replacing the cable between Operating panel and BCRS?	YES	Replace the cable between Operating panel and BCRS.	
			NO	Go to item 6.	
	6 7	Any improvement after replacing FAX board?	YES	Replace FAX board.	
			NO	Go to item 7.	
		Any improvement after replacing MFBS board?	YES	Replace MFBS board.	
			NO	Replace the PWB-A	

Symptom	ltem No.	Cause		Remedy	
Cannot go to "Sending" nor "Receiving" modes	1	Is the password checked?	YES	Go to item 2	
			NO	Go to item 3.	
	2	Is the password correct?	YES	Disable password check and Go to item 3.	
			NO	Match the password.	
	3	Try to communicate with the ser- vice center. Same problem? Possible causes: D. FAX button is not pressed. E. Both systems are in the transmission (or reception) mode.	YES	Go to item 4.	
			NO	END Possible causes are line trouble, trouble or improper operation in the remote ter- minal, or the remote FAX is not con- nected.	
	4	Are the transmission level and	YES	Go to item 5.	
		equalizer of the service center set properly?	NO	Set them properly.	
	5	Did you check the mode (TX or RX) of the remote side?	YES	Go to item 6.	
			NO	Confirm it by phone.	
	6	Any improvement after replacing	YES	Replace MFBS - FAX cable.	
		MFBS - FAX cable?	NO	Go to item 7.	
	7	Any improvement after replacing FAX board?	YES	Replace FAX board.	
			NO	Go to item 8.	
	8	Any improvement after replacing MFBS board?	YES	Replace MFBS board.	
			NO	Go to item 9.	
	9	Any improvement after replacing Operating panel?	YES	Replace Operating panel.	
			NO	Go to item 10.	
	10	Any improvement after replacing the cable between Operating panel and BCRS?	YES	Replace the cable between Operating panel and BCRS.	
			NO	Replace the PWB-A	
Automatic	1	Did you select the automatic reception mode?	YES	Go to item 2	
reception dis-			NO	Select the automatic reception mode.	
abled	2	Is the external telephone on hook?	YES	Go to item 3.	
			NO	Set the external telephone on-hook.	
	3	Any improvement after replacing MFBS - FAX cable?	YES	Replace MFBS - FAX cable.	
			NO	Go to item 4.	
	4	Any improvement after replacing FAX board?	YES	Replace FAX board.	
			NO	Go to item 5.	
	5	Any improvement after replacing MFBS board?	YES	Replace MFBS board.	
			NO	Go to item 6.	
	6	Any improvement after replacing Operating panel?	YES	Replace Operating panel.	
			NO	Go to item 7.	
	7	Any improvement after replacing the cable between Operating panel and BCRS?	YES	Replace the cable between Operating panel and BCRS.	
			NO	Replace the PWB-A	

Symptom	Item No.	Cause		Remedy	
Cannot send dial number from 10 key pad	1	Is the external telephone off-	YES	Go to item 2	
		hook?	NO	Set the handset on-hook.	
	2	Is the line type specified cor- rectly?	YES	Go to item 3.	
			NO	Specify the line type (MF, 10, 20 PPS) correctly.	
	3	Dial by 10 key?	YES	Go to item 5.	
			NO	Go to item 4.	
	4	Did you register the phone num- ber?	YES	Go to item 5.	
			NO	Register the phone number.	
	5	Any improvement after replacing MFBS - FAX cable?	YES	Replace the MFBS - FAX cable.	
			NO	Go to item 6.	
	6	Any improvement after replacing	YES	Replace FAX board.	
		FAX board?	NO	Go to item 7.	
	7	Any improvement after replacing	YES	Replace MFBS board.	
		MFBS board?	NO	Go to item 8.	
	8	Any improvement after replacing Operating panel?	YES	Replace Operating panel.	
			NO	Go to item 9.	
	9	Any improvement after replacing the cable between Operating panel and BCRS?	YES	Replace the cable between Operating panel and BCRS.	
			NO	Replace the PWB-A	
Cannot moni- tor communi- cation	1	Is the sound volume switch OFF?	YES	Select a sound volume switch other than OFF.	
			NO	Go to item 2	
	2	Is S/W DIP SW set line monitor- ing?	YES	Go to item 3.	
			NO	Set S/W DIP SW.	
	3	Any improvement after replacing the speaker?	YES	Replace the speaker.	
			NO	Go to item 4.	
	4	Any improvement after replacing FAX board?	YES	Replace FAX board.	
			NO	Go to item 5.	
	5	Any improvement after replacing MFBS board?	YES	Replace MFBS board.	
			NO	Go to item 6.	
	6	Any improvement after replacing Operating panel?	YES	Replace Operating panel.	
			NO	Go to item 7.	
	7	Any improvement after replacing the cable between Operating panel and BCRS?	YES	Replace the cable between Operating panel and BCRS.	
			NO	Replace the PWB-A	
Symptom	ltem No.	Cause		Remedy	
---	-------------	---	-----	------------------------	
Image mem-	1	Proceed to the following proce-	YES	Normal	
ory (memory stored for TX image) is not backed up.		 dure. Is the image memory backed up? F. TX: Disconnect the line cable and proceed a quick memory transmission. Turn OFF the power switch while waiting for the answer. Turn ON the power and check if data is stored in the image memory. G. RX: Turn OFF the power switch while proceeding memory reception without printing paper. Turn ON the power again and check if data is stored in the image memory. 	NO	Go to item 2	
	2	Is the connector of BCRS board connected?	YES	Go to item 3.	
			NO	Connect the connector.	
	3	Is the battery voltage appropri- ate? (1.2 V or more)	YES	Go to item 6.	
			NO	Go to item 4.	
	4	Is the battery full charged? (Approx. 24hr)	YES	Go to item 5.	
			NO	Charge the battery.	
	5	Any improvement after replacing the battery?	YES	Replace the battery.	
			NO	Go to item 6.	
	6	Any improvement after replacing MFBS board?	YES	Replace MFBS board.	
			NO	Go to item 7.	
	7	Any improvement after replacing	YES	Replace RAMS board.	
		RAMS board?	NO	Replace the PWB-A	



SERVICE MANUAL

FIELD SERVICE

DF-605

2005.08 KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. Ver. 1.0

Revision history

After publication of this service manual, the parts and mechanism may be subject to change for improvement of their performance.

Therefore, the descriptions given in this service manual may not coincide with the actual machine.

When any change has been made to the descriptions in the service manual, a revised version will be issued with a revision mark added as required.

Revision mark:

- To indicate clearly a section revised, show $\underline{\land}$ to the left of the revised section. A number within $\underline{\land}$ represents the number of times the revision has been made.
- To indicate clearly a section revised, show **(** in the lower outside section of the corresponding page.

A number within **A** represents the number of times the revision has been made.

NOTE

Revision marks shown in a page are restricted only to the latest ones with the old ones deleted.

- When a page revised in Ver. 2.0 has been changed in Ver. 3.0: The revision marks for Ver. 3.0 only are shown with those for Ver. 2.0 deleted.
- When a page revised in Ver. 2.0 has not been changed in Ver. 3.0: The revision marks for Ver. 2.0 are left as they are.

2005/08	1.0	—	Issue of the first edition
Date	Service manual Ver.	Revision mark	Descriptions of revision

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General

1. Product specifications

А. Туре

Name	Reverse Automatic Document Feeder		
	Paper Feed	Paper Feed from top of stack	
Туре	Turnover	Switch back system	
	Paper Exit	Straight exit system	
Installation	Screw cramp to the main unit		
Document Alignment	Center		
Document Loading	Left image side up		

B. Functions

Modes	1-Sided Mode / 2-Sided Mode

C. Paper type

	Standard Mode Plain Paper	1-Sided Mode 35 to 128 g/m ² (9.25 to 34 lb)
		2-Sided Mode 50 to 128 g/m ² (13.25 to 34 lb)
Type of Document	Mixed Original Detection Mode Plain Paper	1-Sided / 2-Sided Mode 50 to 128 g/m² (13.25 to 34 lb)
	FAX Mode Plain Paper	1-Sided Mode 35 to 128 g/m ² (9.25 to 34 lb)
		2-Sided Mode 50 to 128 g/m ² (13.25 to 34 lb)
Detectable Document Size*1	Metric area B6R to A3 Inch area 5.5 × 8.5R / 5.5 × 8.5 to 11 × 17	
Capacity	80 sheets (80 g/m ²) or load height of 11 mm or less.	

*1: For the Combined Original Detection Mode, Refer to the Mixed Original Detection Enabled Size Combination Table.

D. Paper feed prohibited originalsIf fed, trouble occurrence will be highly possible.

Type of Original	Possible Trouble
Original that is stapled or clipped.	Feed failure, damage to the original, or drive failure due to clip clogging
Book original	Feed failure, damage to the original, or drive failure
Original weighing less than 35g/m² or 129g/m² or more	Feed failure
Torn original	Feed failure, damaged sheet
Highly curled original (15 mm or more)	Original misfeed due to dog-ear or skew
OHP transparencies	Feed failure
Label Sheet	Feed failure
Offset master	Feed failure
Sheets clipped or notched	Damaged sheet
Sheets patched	Patched part folded or torn sheet, Sheets misfed

E. Paper feed not guaranteed originals

• If fed, paper feed will be possible to some extent but trouble occurrence will be possible.

Type of Original	Possible Trouble
Sheets lightly curled (Curled amount: 10 - 15 mm)	Dog-eared, exit failure
Heat Sensitive Paper	Edge folded, exit failure, transport failure
Coated Paper (Ink Jet Paper)	Take-up failure, transport failure
Translucent paper	Take-up failure, transport failure
Paper immediately after paper exit from the main unit	Take-up failure, transport failure
Paper with many punched holes (e.g., loose leaf) limited to vertical feeding	Multi-page feed due to flashes from holes
Sheets with 2 to 4 holes	Transport failure
Sheets two-folded or Z-folded	Transport failure, image deformation
Sheets with rough surface (e.g., letterhead)	Take-up failure
Sheets folded	Image deformation, multi-page feed, take-up failure

F. Mixed original feed chart

For Metric

	Max. Original Size	297	mm	257	mm	210	mm	182 mm	148 mm
Mixe	d Original Size	A3	A4	B4	B5	A4R	A5	B5R	A5R
207 mm	A3	OK	OK	-	-	-	-	-	-
297 11111	A4	OK	OK	-	-	-	-	-	-
257 mm	B4	OK	OK	OK	OK	-	-	-	-
237 11111	B5	OK	OK	OK	OK	-	-	-	-
210 mm	A4R	OK*	OK*	OK	OK	OK	OK	-	-
210 11111	A5	NG	NG	OK	OK	OK	OK	-	-
182 mm	B5R	NG	NG	OK*	OK*	OK	OK	OK	-
148 mm	A5R	NG	NG	NG	NG	NG	NG	OK	OK
123 mm	B6R	NG	NG	NG	NG	NG	NG	NG	OK

For Inch

	Max. Original Size	11		8.5			5.5
Mixed Original Size		11 x 17	8.5 x 11	8.5 x 14	8.5 x 11R	5.5 x 8.5	8.5 x 5.5R
11	11 x 17	OK	OK	-	-	-	-
	8.5 x 11	OK	OK	-	-	-	-
0.5	8.5 x 14	OK*	OK*	OK	OK	OK	-
0.0	8.5 x 11R	OK*	OK*	OK	OK	OK	-
5.5	8.5 x 5.5	NG	NG	OK	OK	OK	-
5.5	8.5 x 5.5R	NG	NG	NG	NG	NG	OK

ОК	Mixed Original Feed available (Tilted with in 1.5% or less)	
NG	NO. Mixed Original Feed	
-	Can not Set Original	
*	Tilted with in 2% or less is 80%	

G. Machine specifications

	DC 24 V (supplied from the main unit)			
Power Requirements	DC 5 V (generated within the Automatic Document Feeder)			
	DC 3.3 V (supplied from the main unit)			
Max. Power Con- sumption	48 W or less			
Dimensions	582 (W) x 558 (D) x 145 (H) mm 23 inch (W) x 20.5 inch (D) x 5.75 inch (H)			
Weight	10 kg (22 lb) or less			

H. Operating

• Conforms to the operating environment of the main unit.

NOTE

• These specifications are subject to change without notice.

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Maintenance

2. Periodical check

2.1 Maintenance procedure (Periodical check parts)

NOTE

• The alcohol described in the cleaning procedure of Maintenance represents the isopropyl alcohol.

2.1.1 Replacing the Pick-up Roller and Feed Roller









1. Open the Upper Door [1].

2. Remove two screws [2], and remove the cover [3].

3. Remove two C-clips [4], and remove the Pick-up Roller Assy [5].

- 4. Remove two levers [6].
- 5. Remove five C-rings [7].
- 6. Remove the arm [8].
- 7. Remove the belt [9].
- 8. Remove two Pick-up Rollers [10].

2.1.2 Replacing the Separation Roller









- 9. Remove the C-ring [11], and remove the gear [12] and the bushing [13].
- 10. Remove two pins [14].
- *11.* Remove the Feed Roller [15]. **NOTE**
- Use care not to lose the pin.
- 1. Open the Upper Door [1].

2. Hold the [2] sections in the figure, and remove the cover [3].

3. Remove the Separation Roller Assy [4].

NOTE

- Use care not to lose the spring at the bottom side of the Separation Roller Assy.
- 4. While opening up the holder [5], remove the shaft [6].

NOTE

• Opening the holder too much can break the holder.

5. Remove the Separation Roller [7] from the shaft.



2.1.3 Cleaning of the Pick-up Roller, Feed Roller and Separation Roller





2.1.4 Cleaning of Miscellaneous Rolls





1. Open the Upper Door [1].

 Using a soft cloth dampened with alcohol, wipe the Pick-up Roller [2], Feed Roller [3] and Separation Roller [4].

- 1. Open the Upper Door [1].
- 2. Using a soft cloth dampened with alcohol, wipe the roll [2].

- 3. Lift up the Original Feed Tray [3].
- 4. Using a soft cloth dampened with alcohol, wipe the roll [4].



2.1.5 Cleaning of Miscellaneous Rollers









- 5. Open the Duplexing Document Feeder.
- 6. Using a soft cloth dampened with alcohol, wipe the roll [5].

- 1. Open the Upper Door [1].
- 2. Using a soft cloth dampened with alcohol, wipe the roller [2].

- 3. Lift up the Original Feed Tray [3].
- 4. Using a soft cloth dampened with alcohol, wipe the roller [4].

- 5. Remove the Front Cover and Rear Cover.
- @ 11
- 6. Disconnect eight connectors [5] on the board.

7. Remove the lever [6].





2.1.6 Cleaning of the Scanning Guide



1. Open the Duplexing Document Feeder.

9. Using a soft cloth dampened with alcohol, wipe the roller [9].

2. Using a soft cloth dampened with alcohol, wipe the Scanning Guide [1] clean of dirt.

2.1.7 Cleaning of the Reflective Sensor Section



1. Clean the sensor [1] using a brush or other similar tools.

8. Remove seven screws [7], and remove the Paper Feed Unit [8].

2. Periodical check

3. Other

3.1 Disassembly/Adjustment prohibited items

- A. Screws to which blue paint or green paint is applied
- Blue paint or green paint is applied to some screws to prevent them from coming loose.
- As a general rule, screws to which blue paint or green paint is applied should not be removed or loosened.
- B. Red-painted screws
- Do not remove or loosen any of the red-painted screws in the field. It should also be noted that, when two or more screws are used for a single part, only one representative screw may be marked with the red paint.
- C. Variable Resistors on Board

NOTE

- Do not turn the variable resistors on boards for which no adjusting instructions are given in Adjustment/Setting.
- D. Removal of PWBs

A Caution

- When removing a circuit board or other electrical component, refer to "SAFETY AND IMPORTANT WARNING ITEMS" and follow the corresponding removal procedures.
- The removal procedures given in the following omit the removal of connectors and screws securing the circuit board support or circuit board.
- When it is absolutely necessary to touch the ICs and other electrical components on the board, be sure to ground your body.

3.2 Disassembly/Assembly/Cleaning list (Other parts)

3.2.1 Disassembly/Assembly parts list

No.	Section	Part name	Ref.Page
1	1	Front Cover	e 11
2	Exterior parts	Rear Cover	e 11
4		Original Feed Tray Rear Cover	æ 11
5	Board and oto	Main Control Board	e 12
6	board and etc.	Variable Resistor	e 12
7	Othors	Complete Stamp Unit 2	e 14
8	Oulers	Replace Stamp 2	e 15

3.3 Disassembly/Assembly procedure

3.3.1 Front Cover/Rear Cover/Original Feed Tray Rear Cover



- 1. Remove two screws [1], and remove the Front Cover [2].
- 2. Remove two screws [3].
- 3. Lift up the Original Feed Tray, and remove the Rear Cover [4].
- 4. Remove the screw [5] and the washer [6], and remove the stopper [7].
- 5. Lift up the Original Feed Tray.
- 6. Remove four screws [8], and remove the Original Feed Tray Rear Cover [9].

1. Turn OFF the Main Power Switch.

3. Disconnect all the connectors on the

4. Remove three screws [1], and then remove the Main Control Board [2].

2. Remove the Rear Cover.

æ 11

board.

3.3.2 Main Control Board



NOTE

- Be sure to perform the following operation when the Main Control Board is replaced.
- 5. Initialize the backup data.
- e 21
- 6. Perform document width detection adjustment.
- e 18
- 7. Turn OFF the Main Power Switch and turn it ON again and check whether size detection operates normally.
- 8. Upgrade the firmware.
- e 16

3.3.3 Variable Resistor







- A. Removal Procedure
- 1. Turn OFF the Main Power Switch.
- 2. Remove the Original Feed Tray Rear Cover.
- e 11
- 3. Disconnect the connector [1].
- 4. Remove two screws [2] and the mounting bracket [3].
- 5. Remove the gear [4].

 Remove the nut [5] and the washer [6], and remove the Variable Resistor [7].











7. Install the Original Feed Tray Rear Cover and turn ON the Main Power Switch.

B. Reinstallation Procedure

1. Close the Side Edge Stop [1] of the Original Feed Tray.

NOTE

- Be sure to perform document width detection adjustment after replacing the Variable Resistor (PBA-VR).
- æ 26
- 2. Use the nut [2] and the washer [3] to install the Variable Resistor [4].

NOTE

- Align the protrusion of the Variable Resistor and the cutout of the mounting bracket.
- 3. Turn the Variable Resistor [5] counterclockwise until it stops.

- *4.* Reinstall the gear [6]. **NOTE**
- Note the mounting position of the gear and the Variable Resistor.
- 5. Connect the connector [7].
- Use two screws [8] to install the Variable Resistor [9].

NOTE

 Install the gear and rack gear by aligning the arrows. NOTE

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- 8. Initialize the backup data. 21 Ŧ
- 9. Perform document width detection adjustment.
- æ 18
- 10. Turn OFF the Main Power Switch and turn it ON again and check whether size detection operates normally.

• Be sure to perform the following operation when the Variable Resistor is replaced.

3.3.4 **Complete Stamp Unit 2**





- 1. Open the Upper Door [1].
- 2. Open the Processing Guide [2].

3. Remove the screw [3] and the cover [4].

- [5]-[6] [7] 4344F2C536DA
- 4. Remove the screw [5] and disconnect the connector [6], and remove the Complete Stamp Unit 2 [7].

3.3.5 Replacing the Replace Stamp 2





- 1. Open the Upper Door [1].
- 2. Open the Processing Guide [2].

- 3. Remove the stamp.
- 4. Reinstall the new Replace Stamp 2 [3].

NOTE

- Align the protrusion of the stamp to the crevice of the holder.
- 5. Close the Processing Guide.
- 6. Close the Upper Door.

4. Firmware upgrade

- 1. Prepare the firmware upgrade EP-ROM.
- 2. Turn OFF the Main Power Switch.
- 3. Remove the Rear Cover.
- e 11









 Insert the prepared EP-ROM [2] to the IC socket section [1] of the Main Control Board.

NOTE

- Ensure that the EP-ROM is installed in the correct direction.
- 5. Turn ON the Main Power Switch.
- Check the firmware update status at the Print Lamp Display Section [3] of the Duplexing Document Feeder.

Updating: Green and red light up alternately.

Successful completion: Blinks in green. Failure: Blinks in red.

- If failure occurs, redo the procedure from step 4.
- After the firmware has been upgraded successfully, turn OFF the Main Power Switch and remove the EP-ROM [4] that was attached at step 4.
- 8. Turn ON the Main Power Switch.
- 9. Display Tech. Rep. Mode.
- 10. Touch the [ROM Version] and check the ADF ROM version.
- Correct the version indication on the ROM label on the Main Control Board using a pen or other similar means.
- 12. Reinstall the Rear Cover.

Adjustment/Setting

5. How to use the adjustment section

- "Adjustment/Setting" contains detailed information on the adjustment items and procedures for this machine.
- · Throughout this "Adjustment/Setting," the default settings are indicated by " ".

Advance Checks

Before attempting to solve the customer problem, the following advance checks must be made. Check to see if:

- The power supply voltage meets the specifications.
- The power supply is properly grounded.
- The machine shares the power supply with any other machine that draws large current intermittently (e.g., elevator and air conditioner that generate electric noise).
- The installation site is environmentally appropriate: high temperature, high humidity, direct sunlight, ventilation, etc.; levelness of the installation site.
- The original has a problem that may cause a defective image.
- The density is properly selected.
- The Original Glass, slit glass, or related part is dirty.
- Correct paper is being used for printing.
- The units, parts, and supplies used for printing (developer, PC Drum, etc.) are properly replenished and replaced when they reach the end of their useful service life.
- Toner is not running out.

- To unplug the power cord of the machine before starting the service job procedures.
- If it is unavoidably necessary to service the machine with its power turned ON, use utmost care not to be caught in the Scanner Cables or gears of the Exposure Unit.
- Special care should be used when handling the Fusing Unit which can be extremely hot.
- The Developing Unit has a strong magnetic field. Keep watches and measuring instruments away from it.
- Take care not to damage the PC Drum with a tool or similar device.
- Do not touch IC pins with bare hands.

6. Tech. Rep. Mode

6.1 Tech. Rep. Mode function setting procedure

For details of how to display the Tech. Rep. Mode screen, see the Adjustment/Setting of the main unit service manual.

6.2 Setting in the Tech. Rep. Choice

6.2.1 Sheet-through-ADF

A. Registration Loop

Functions	To adjust the length of the loop to be formed in paper before the Registration Rollers.
Use	For factory adjustment only

B. Zoom

Functions	 To set the CD and FD scan zoom ratios in the sheet-through ADF.
Use	When setting up the ADF
Setting/ Procedure	æ 23

C. Feed (CD)

Functions	 To adjust the CD image scan start position in the sheet-through ADF.
Use	When setting up the ADF
Setting/ Procedure	ح» 24 (۲)

D. Feed (FD)

Functions	 To adjust the FD image scan start position in the sheet-through ADF.
Use	When setting up the ADF
Setting/ Procedure	<i>چ</i> 24

6.3 Setting in the Function

6.3.1 Org. Width Detect Adjust

Functions	 To detect the size of the original loaded in the ADF
Use	When the Variable Resistor is replaced with a new oneWhen the backup data is initialized
Setting/ Procedure	æ 18

6.4 I/O Check

6.4.1 Sheet-through-ADF (2-sided)

Functions	To check sensors on the paper path.
Use	When a document misfeed occurs.

A. Check procedure

 To allow sensors to be checked for operation easily and safely, data applied to the IC on the board can be checked on the panel with the main unit in the standby state (including a misfeed, malfunction, and closure failure condition).

B. Procedure

- 1. Set the mode to the Tech. Rep. Mode.
- 2. Touch the [I/O Check].
- 3. Touch the [Sheet-through-ADF (2-sided)].
- Operate the sensor to check by using paper or the like, and check the screen display. (Paper detected: 1, No paper detected: 0)

C. I/O check screen

 This is only typical screen which may be different from what are shown on each individual main unit.

Sheet-through- ADF(2-sided)	END	
Empty Registration Before Scanning Exit and Turn Over Orig. Length 1 Orig. Length 2 Orig. Length 3 Orig. Length 4 Behind Separator Org. Width Detect 0	0 Prg. Vidth 0 Prg. Vidth 0 Side Cover 0 Orig.Width Vol. 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0

D. I/O check list

Symbol	Panel display		Part/Signal name	Operation characteristics/ Panel display	
0,11201			i al velghar hanne	1	0
PC5-ADF		Empty	Empty Sensor	Paper present	Paper not present
PC9-ADF		Registration	Registration Sensor	Paper present	Paper not present
PC8-ADF		Before Scanning	Original Detection Sensor	Paper present	Paper not present
PC10-ADF		Exit and Turn Over	Exit/Turnover Sensor	Paper present	Paper not present
PC1-ADF	-sided)	Orig. Length 1	FD Paper Size Detection Sensor 1	Paper present	Paper not present
PC2-ADF	F (2	Orig. Length 2	FD Paper Size Detection Sensor 2	Blocked	Unblocked
PC3-ADF	gh-ADI	Orig. Length 3	FD Paper Size Detection Sensor 3	Paper present	Paper not present
PC4-ADF	et-throu	Orig. Length 4	FD Paper Size Detection Sensor 4	Paper present	Paper not present
PC6-ADF	shee	Behind Separator	Separator Sensor	Blocked	Unblocked
	0	Org. Width Detect 0		Paper present	Paper not present
PWB-SIZE		Org. Width Detect 1	Mix Document Size Detection Board	Paper present	Paper not present
		Org. Width Detect 2		Paper present	Paper not present
PC7-ADF		Side Cover	Upper Door Open/Close Sensor	OPEN	CLOSE
PBA-VR		Orig. Width Vol.	Variable Resistor	Analog	y value

6.5 Setting in the Operation Check

6.5.1 Paper Passage

Functions	To check for paper passage through the ADF in each of the ADF modes.
Use	 Used for checking the document path for any abnormal condition when a document misfeed occurs.
Setting/ Procedure	<procedure> 1. Set the mode to the Tech. Rep. Mode. 2. Touch the [Operation Check]. 3. Touch the [ADF]. 4. Touch the [Paper Passage]. 5. Select the Paper Passage Mode to be tested from [1-Sided No Detect] and [Double-Sided]. 6. Set the Original in the Take-up Tray. 7. The Start key color changes from orange to green. 8. Press the Start key. The operation starts.</procedure>
	 NOTE After starting the operation by pressing the Start key, if the Start key is pressed during the operation, the operation will be suspended. Then, if the Start key is pressed again during the suspension, the operation will be resumed. If the Stop key is pressed during the test operation, the test will be forced to end. If there is no Original set in the Take-up Tray, the Start key will not work. All Originals set in the Take-up Tray are passed through. Upon the completion of all Originals passed through, the Paper Through Test ends.

6.5.2 ADF Sensor Adjust

Functions	To make an automatic adjustment of the sensor.	
Use	When a document misfeed occurs.When the sensor is replaced.	
Setting/ Procedure	<procedure> 1. Set the mode to the Tech. Rep. Mode. 2. Touch the [Operation Check]. 3. Touch the [ADF]. 4. Touch the [ADF Sensor Adjust]. 5. Press the Start key to let the ADF start making an automatic adjustment of the sensor.</procedure>	

6.5.3 Backup Data Initialization

Functions	• To initialize the values set through ADF Sensor Adjust and Org. Width Detect Adjust.
Use	When the Main Control Board is replaced.When the Variable Resistor is replaced.
Setting/ Procedure	<procedure> 1. Set the mode to the Tech. Rep. Mode. 2. Touch the [Operation Check]. 3. Touch the [ADF]. 4. Touch the [Backup Data Initialization]. 5. [Touch [Yes] and [Enter] to start the initialization sequence.</procedure>

7. Mechanical adjustment

7.1 Leading Edge Skew Adjustment









- Load the test chart [1] in the Reverse Automatic Document Feeder and make one 1-sided copy five consecutive times.
- Fold each of the sample copies as illustrated and check for any deviation.
 Specifications: 0 ± 3.0 mm
- 3. If the deviation does not fall within the specified range, perform the following adjustment procedure.
- 4. Loosen the decorative screw [2] and the nut [3] in the back to the right.

 If there is a deviation as shown on the figure, turn the screw counterclockwise to adjust it.

- If there is a deviation as shown on the figure, turn the screw clockwise to adjust it.
- After the adjustment procedure has been completed, tighten the decorative screw and the nut which has been loosened in step 4.



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 Load the test chart [1] in the Reverse Automatic Document Feeder and make a full-size copy.

- Check that the lengths of the reference lines reproduced on the copy, A (CD) and B (FD), meet the following specifications.
 Specification: A (CD): 250 ± 2.5 mm (± 1.0 %) B (FD): 400 ± 6.0 mm (± 1.5 %)
- If the length of the line reproduced on the copy falls outside the specified range, select Tech. Rep. Mode → [Tech. Rep. Choice] → [Sheetthrough-ADF] → [Zoom].



- 4. Touch the [Copy] of CD or FD.
- 5. Press the Clear key.
- 6. Enter the value from the 10-Key Pad.
- If the line is longer than the specifications, adjust toward the reduction side.
- If the line is shorter than the specifications, adjust toward the enlargement side.

Adjustment Range:

CD: ×1.010 to ×0.990

FD: ×1.020 to ×0.980

- 7. Touch the [END].
- 8. Produce another test print and check for width A.

7.3 Adjustment of the Scanning Start Position in the Main and Sub-Scanning Directions

NOTE

 Make this adjustment after adjusting the scanning zoom ratio in the main and subscanning directions.







- Load the test chart [1] in the Reverse Automatic Document Feeder and make a full-size copy.
- Make a full-size copy using the 2side original/2-side copy mode. (Face down the test chart)
- Check that the margins reproduced on the copy meet the following specifications.
- In full size copy mode Specification: Width A: 20 ± 3.0 mm Width B: 20 ± 2.0 mm
- In 2-side original mode Specification:
 Width A: 20 ± 3.5 mm
- If the length of the line reproduced on the copy falls outside the specified range, select Tech. Rep. Mode → [Tech. Rep. Choice] → [Sheetthrough-ADF] → [Feed (CD)] or [Feed (FD)].







- 5. By referring to the left figure, select [Feed (CD)] or [Feed (FD)] to adjust the deviation.
- If the deviation is in the direction with respect to the reference line: Adjust in the + direction.
- If the deviation is in the + direction with respect to the reference line: Adjust in the - direction.

In the case of Feed (CD)

- 6. Press the Clear key.
- 7. Enter the numeric value from the 10-Key Pad.

(1 mm = 24 dot)

Adjustment Range:

Max +72

Min -72

Press the * key to change the sign to select either + or -.

- In the case of Feed (FD)
- 8. Select [Front (F)] or [Back (B)].
- 9. Press the Clear key.
- 10. Enter the numeric value from the 10-Key Pad.
 - (0.1 mm increments)

Adjustment Range:

Max +4.0 mm (F), +4.0 mm (B)

- Min -4.0 mm (F), -4.0 mm (B)
- 11. Touch the [END].
- 12. Make another copy and check the error.

7.4 Document Size Detection Adjustment

NOTE

Make this adjustment after any of the following procedures has been performed.

- When the Variable Resistor has been replaced.
- When the backup data has been initialized.











- 1. Display Tech. Rep. Mode.
- 2. Touch the [Function].
- 3. Touch the [Org. Width Detect Adjust].

 Align the original edge plane of the Side Edge Stop [1] of the Original Feed Tray to the outside ▼ mark.

- 5. Touch the [Maximum Size].
- 6. Press the Start key.

 Align the original edge plane of the Side Edge Stop [2] of the Original Feed Tray to the inside ▼ mark.

- 8. Touch the [Minimum Size].
- 9. Press the Start key.
- 10. Check whether size detection operates normally.

DF-605

Troubleshooting

8. Jam Display

8.1 Misfeed display

• When misfeed occurs, message, misfeed location "Blinking" and paper location "Lighting" are displayed on the Touch Panel of the main unit.



Panel display	Misfeed location	Misfeed access location	Action
[1]	Paper Take-Up section	Paper Take-Up section Cover	e 28
	Transport section	Paper Take-Up section Cover	e 29
	Turnover section	Paper Exit section Cover	e 29
	Paper Exit section	Paper Exit section Cover	e 30

8.1.1 Misfeed display resetting procedure

• Open the corresponding door, clear the sheet of paper misfeed, and close the door.

8.2 Sensor layout



8.3 Solution

8.3.1 Initial check items

• When a paper misfeed occurs, first perform the following initial check items.

Check item	Action
Does paper meet product specifications?	Replace paper.
Is the paper curled, wavy, or damp?	Replace paper. Instruct the user on the correct paper storage procedures.
Is a foreign object present along the paper path, or is the paper path deformed or worn?	Clean the paper path and replace if necessary.
Are rolls/rollers dirty, deformed, or worn?	Clean or replace the defective roll/roller.
Are the Edge Guide and Trailing Edge Stop at the correct position to accommodate the paper?	Set as necessary.
Are the actuators operating correctly?	Correct or replace the defective actuator.

8.3.2 Misfeed at Paper Take-Up section

A. Detection timing

Type	Description	
туре	Beschpilen	
Detection of misfeed at	The Separator Sensor (PC6-ADF) is not blocked even after the set period of time has elapsed after the Paper Feed Motor (M1-ADF) is energized.	
Paper Take-Up section	The Registration Sensor (PC9-ADF) is not blocked even after the set period of time has elapsed after the Paper Feed Motor (M1-ADF) is energized.	
Detection of paper left in	The Separator Sensor (PC6-ADF) is not blocked even after the set period of time has elapsed after the Original Detection Sensor (PC8-ADF) is blocked by the paper.	
Paper Take-Up section	The Registration Sensor (PC9-ADF) is not blocked even after the set period of time has elapsed after the Original Detection Sensor (PC8-ADF) is blocked by the paper.	

Relevant Electrical Parts				
Paper Feed Motor (M1-ADF)	Main Control Board (PBA-CONT)			
Separator Sensor (PC6-ADF)				
Registration Sensor (PC9-ADF)				
Original Detection Sensor (PC8-ADF)				

		WIRING DIAGRAM		
Step	Action	Control Signal	Location (Electrical Component)	
1	Initial check items	-	-	
2	PC6-ADF I/O check	PBA-CONT CN5CONT-11	DF-605 G-5	
3	PC9-ADF I/O check	PBA-CONT CN6CONT-3	DF-605 G-3	
4	PC8-ADF I/O check	PBA-CONT CN6CONT-6	DF-605 G-3	
5	M1-ADF operation check	PBA-CONT CN7CONT-3 to 6	DF-605 C-6	
6	Change PBA-CONT	-	-	

8.3.3 Misfeed at Transport section

A. Detection timing

Туре	Description
Detection of misfeed at Transport section	The Original Detection Sensor (PC8-ADF) is not blocked even after the set period of time has elapsed after the Registration Sensor (PC9-ADF) is blocked by the paper.
Detection of paper left in Transport section	The Original Detection Sensor (PC8-ADF) is not unblocked even after the set period of time has elapsed after the Registration Sensor (PC9-ADF) is unblocked by the paper.

B. Action

Relevant Electrical Parts				
Paper Feed Motor (M1-ADF)	Main Control Board (PBA-CONT)			
Transport Motor (M2-ADF)				
Registration Sensor (PC9-ADF)				
Original Detection Sensor (PC8-ADF)				

Step		WIRING DIAGRAM		
	Action	Control Signal	Location (Electrical Component)	
1	Initial check items	-	-	
2	PC9-ADF I/O check	PBA-CONT CN6CONT-3	DF-605 G-3	
3	PC8-ADF I/O check	PBA-CONT CN6CONT-6	DF-605 G-3	
4	M1-ADF operation check	PBA-CONT CN7CONT-3 to 6	DF-605 C-6	
5	M2-ADF operation check	PBA-CONT CN8CONT-3 to 6	DF-605 C-6	
6	Change PBA-CONT	-	-	

8.3.4 Misfeed at Turnover section

A. Detection timing

Туре	Description
Detection of misfeed at Turnover section	The Registration Sensor (PC9-ADF) is not blocked even after the set period of time has elapsed after the Transport Motor (M2-ADF) is energized.

Relevant Electrical Parts			
Transport Motor (M2-ADF) Registration Sensor (PC9-ADF)	Main Control Board (PBA-CONT)		

Step	Action	WIRING DIAGRAM		
		Control Signal	Location (Electrical Component)	
1	Initial check items	-	-	
2	PC9-ADF I/O check	PBA-CONT CN6CONT-3	DF-605 G-3	
3	M2-ADF operation check	PBA-CONT CN8CONT-3 to 6	DF-605 C-6	
4	Change PBA-CONT	-	-	

8.3.5 Misfeed at Paper Exit section

A. Detection timing

Туре	Description
Detection of misfeed at Paper Exit section	The Exit/Turnover Sensor (PC10-ADF) is not blocked even after the set period of time has elapsed after the Original Detection Sensor (PC8-ADF) is blocked by the paper.
Detection of paper left in Paper Exit section	The Exit/Turnover Sensor (PC10-ADF) is not unblocked even after the set period of time has elapsed after the Original Detection Sensor (PC8-ADF) is unblocked by the paper.

Relevant Electrical Parts			
Transport Motor (M2-ADF) Original Detection Sensor (PC8-ADF) Exit/Turnover Sensor (PC10-ADF)	Main Control Board (PBA-CONT)		

Step	Action	WIRING DIAGRAM		
		Control Signal	Location (Electrical Component)	
1	Initial check items	-	-	
2	PC8-ADF I/O check	PBA-CONT CN6CONT-6	DF-605 G-3	
3	PC10-ADF I/O check	PBA-CONT CN6CONT-9	DF-605 G-4	
4	M2-ADF operation check	PBA-CONT CN8CONT-3 to 6	DF-605 C-6	
5	Change PBA-CONT	-	-	

9. Malfunction code

9.1 Trouble code

• The copier's CPU performs a self-diagnostics function that, on detecting a malfunction, gives the corresponding malfunction code and maintenance call mark on the Touch Panel.



9.2 Solution

9.2.1 C8301: ADF Cooling Fan Motor Failure

A. Detection timing

Trouble Code	Description	
C8301	 The Lock signal remains HIGH for a predetermined continuous period of time while ADF Cooling Fan Motor is rotating. 	

Relevant Electrical Parts		
Cooling Fan Motor (M3-ADF)	Main Control Board (PBA-CONT)	

Step	Action	WIRING DIAGRAM		
		Control Signal	Location (Electrical Component)	
1	Check the M3-ADF connector for proper connection and correct as necessary.	-	-	
2	M3-ADF operation check	PBA-CONT CN9CONT-2	DF-605 C-6	
3	Change PBA-CONT	-	-	
10. Set error detection

• When the ADF or cover set error for some reason is detected, the Panel of the main unit will have the following display.



<Panel display and detection timing for each>

Panel display	Description of error	Detection start	Detection timing
[1]	Upper Door closure	When the document is loaded into the ADF	Upper Door Open/Close Sensor (unblocked)
[2]	ADF closure	When the document is loaded into the ADF	Copier Size Reset Switch (ON)



SERVICE MANUAL

FIELD SERVICE

PC-102/PC-202

2005.08 KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. Ver. 1.0 After publication of this service manual, the parts and mechanism may be subject to change for improvement of their performance.

Therefore, the descriptions given in this service manual may not coincide with the actual machine.

When any change has been made to the descriptions in the service manual, a revised version will be issued with a revision mark added as required.

Revision mark:

- To indicate clearly a section revised, show \triangle to the left of the revised section. A number within \triangle represents the number of times the revision has been made.
- To indicate clearly a section revised, show **A** in the lower outside section of the corresponding page.

A number within **A** represents the number of times the revision has been made.

NOTE

Revision marks shown in a page are restricted only to the latest ones with the old ones deleted.

- When a page revised in Ver. 2.0 has been changed in Ver. 3.0: The revision marks for Ver. 3.0 only are shown with those for Ver. 2.0 deleted.
- When a page revised in Ver. 2.0 has not been changed in Ver. 3.0: The revision marks for Ver. 2.0 are left as they are.

2005/08	1.0	_	Issue of the first edition
Date	Service manual Ver.	Revision mark	Descriptions of revision

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General

1. Product specifications

А. Туре

Name	2 way Paper Take-Up Cabinet
Туре	Front loading type 2 way paper take-up device
Installation	Desk type
Document Alignment	Center

B. Paper type

Туре	Plain paper	56 to 90 g/m ² (15 to 24 lb)
Size	A5R to A3, 5.5 \times 8.5R to 11 \times	17
Capacity	3rd Tray	500 sheets (80 g/m ² , 21.25 lb)
Capacity	4th Tray	500 sheets (80 g/m ² , 21.25 lb)

C. Machine specifications

Power Pequirements	DC 24 V \pm 10 % (supplied from the main unit)
Fower Requirements	DC 5 V ± 5 %
Max. Power Consumption	15 W or less
Dimensions	570 mm (W) $ imes$ 548 mm (D) $ imes$ 263 mm (H)
Weight	PC-102: 22.0 kg (48.5 lb) PC-202: 25.9 kg (57 lb)

D. Operating environment

• Conforms to the operating environment of the main unit.

NOTE

These specifications are subject to change without notice.

Field Service Ver. 1.0 Aug. 2005

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Maintenance

2. Periodical check

2.1 Maintenance procedure (Periodical check parts)

2.1.1 Replacing the Separation Roller Assy









- 1. Remove the Right Door.
- e 10
- 2. Remove two screws [1] and remove the Jam Access Cover [2].
- 3. Remove two screws [3] and remove the Paper Separation Roller Mounting Bracket Assy [4].

 Remove two C-rings [5] and the shaft [6], and remove the Paper Separation Roller Fixing Bracket Assy [7].

NOTE

- Be careful not to lose spring at this time.
- Remove the C-ring [8], the Guide [9], and remove the Separation Roller Assy [10].
- 6. Repeat steps 1 to 5 similarly for the 4th Drawer.

NOTE

- Install the Separation Roller Assy while pressing the holder down so that it aligns to the metal bracket of the machine.
- Make sure that the Separation Roller Assy is not tilted to the right or left when installed.



NOTE

2.1.2

 Replace the Separation Roller Assy, Paper Take-up Roller and Pick-up Roller at the same time.



Replacing the Paper Take-up Roller

(3) (2) (2) (2) (2) (2) (2) (2) (2) (2)



- Remove the Rear Right Cover. (Remove the Right Lower Cover for 4th row.)
- æ 10
- 2. Remove the Tray3. (Remove the Tray4 from 4th row.)
- 3. Remove the Paper Separation Roller Mounting Bracket Assy.
- See steps 1 to 3 of "Replacing the Separation Roller Assy" on p. 3.
- Disconnect the connector [1] and remove the harness from two wire saddles.
- 5. Remove four screws [2] and remove the Paper Take-up Unit [3].

 Remove two screws [4] and remove the Mounting Frame [5] for the Paper Separation Roller Mounting Bracket Assy.





- 2. Periodical check
- 7. Remove two screws [6] and remove the Paper Take-up Cover [7].

8. Remove the C-ring [8] and remove the bushing [9].

9. Shift the Shaft Assy [10] in the orientation as shown on the left, and remove the C-ring [11] and the gear [12].

10. Remove the C-ring [13], the bushing [14], and remove the shaft Assy [15].





11. Remove two E-rings [16] and the bushing [17], and remove the Pickup Roller Fixing Bracket Assy [18].

- 12. Remove the C-ring [19] and remove the Paper Take-up Roller [20].
- 13. Repeat steps 1 to 12 similarly for the 4th Drawer.

NOTE

• Replace the Separation Roller Assy, Paper Take-up Roller and Pick-up Roller at the same time.

2.1.3 Replacing the Pick-up Roller





- 1. Remove the Rear Right Cover. (Remove the Right Lower Cover for 4th row.)
- æ 10
- 2. Remove the Tray3.(Remove the Tray4 from 4th row.)
- 3. Remove the Paper Separation Roller Mounting Bracket Assy.
- See steps 1 to 3 of "Replacing the Separation Roller Assy" on p. 3.
- Disconnect the connector [1] and remove the harness from two wire saddles.
- 5. Remove four screws [2] and remove the Paper Take-up Unit [3].









- 6. Remove two screws [4] and remove the Paper Separation Roller Mounting Bracket Assy [5] together with frame.
- 7. Remove two screws [6] and remove the Paper Take-up Cover [7].

 Remove two C-rings [8], two bushings [9], and remove the Pick-up Roller Assy [10].

- 9. Remove the C-ring [11] and remove the Pick-up Roller [12].
- 10. Repeat steps 1 to 9 similarly for the 4th Drawer.

NOTE

• Replace the Separation Roller Assy, Paper Take-up Roller and Pick-up Roller at the same time.

PC-102/PC-202

3. Other

3.1 Disassembly/Adjustment prohibited items

- A. Screws to which blue paint or green paint is applied
- Blue paint or green paint is applied to some screws to prevent them from coming loose.
- As a general rule, screws to which blue paint or green paint is applied should not be removed or loosened.
- B. Red-painted screws
- Do not remove or loosen any of the red-painted screws in the field. It should also be noted that, when two or more screws are used for a single part, only one representative screw may be marked with the red paint.
- C. Variable Resistors on Board

NOTE

• Do not turn the variable resistors on boards for which no adjusting instructions are given in Adjustment/Setting.

D. Removal of PWBs

- When removing a circuit board or other electrical component, refer to "SAFETY AND IMPORTANT WARNING ITEMS" and follow the corresponding removal procedures.
- The removal procedures given in the following omit the removal of connectors and screws securing the circuit board support or circuit board.
- When it is absolutely necessary to touch the ICs and other electrical components on the board, be sure to ground your body.

3.2 Disassembly/Assembly/Cleaning list (Other parts)

3.2.1 Disassembly/Assembly parts list

No	Section	Part name	Ref. page
1		Right Door	e 10
2		Rear Right Cover	e 10
3	Exterior parts	Lower Right Cover	e 10
4		Front Right Cover	e 10
5		Rear Cover	e 10

3.2.2 Cleaning parts list

No	Section	Part name	Ref. page
1		Separation Roller	e 11
2	Paper feed section	Paper Take-up Roller	e 11
3		Pick-up Roller	e 12
4	Transport section	Vertical Transport Roller	e 12

3. Other

3.3 Disassembly/Assembly procedure

3.3.1 Right Door/Rear Right Cover/Lower Right Cover/Front Right Cover



- 1. Open the Right Door [1].
- 2. Remove the Right Door [1].
- 3. Remove two screws [2] and remove the Rear Right Cover [3].
- 4. Remove two screws [4] and remove the Lower Right Cover [5].
- 5. Remove two screws [6] and remove the Front Right Cover [7].

3.3.2 Rear Cover



1. Remove four screws [1] and remove the Rear Cover [2].

NOTE

The alcohol described in the cleaning procedure represents the isopropyl alcohol.

3.4.1 Separation Roller







3.4.2 Paper Take-up Roller



- 1. Remove the Right Door.
- e 10
- 2. Remove two screws [1] and remove the Jam Access Cover [2].
- 3. Remove two screws [3] and remove the Paper Separation Roller Mounting Bracket Assy [4].

- Using a soft cloth dampened with alcohol, wipe the Separation Roller [5] clean of dirt.
- 5. Repeat steps 1 to 4 similarly for the 4th Drawer.

- 1. Remove the Tray3.(Remove the Tray4 from 4th row.)
- 2. Remove the Paper Separation Roller Mounting Bracket Assy.
- See steps 1 to 3 of the cleaning procedure for "Separation Roller" on p. 11.
- 3. Using a soft cloth dampened with alcohol, wipe the Paper Take-up Roller [1] clean of dirt.
- 4. Repeat steps 1 to 3 similarly for the 4th Drawer.

3.4.3 Pick-up Roller



3.4.4 Vertical Transport Roller



- 1. Remove the Tray3.(Remove the Tray4 from 4th row.)
- 2. Remove the Paper Separation Roller Mounting Bracket Assy.
- See steps 1 to 3 of the cleaning procedure for "Separation Roller" on p. 11.
- 3. Using a soft cloth dampened with alcohol, wipe the Pick-up Roller [1] clean of dirt.
- 4. Repeat steps 1 to 3 similarly for the 4th Drawer.
- 1. Open the Right Door.
- 2. Using a soft cloth dampened with alcohol, wipe the Vertical Transport Roller [1] clean of dirt.

Adjustment/Setting

4. How to use the adjustment section

- "Adjustment/Setting" contains detailed information on the adjustment items and procedures for this machine.
- · Throughout this "Adjustment/Setting," the default settings are indicated by " ".

Advance Checks

Before attempting to solve the customer problem, the following advance checks must be made. Check to see if:

- The power supply voltage meets the specifications.
- The power supply is properly grounded.
- The machine shares the power supply with any other machine that draws large current intermittently (e.g., elevator and air conditioner that generate electric noise).
- The installation site is environmentally appropriate: high temperature, high humidity, direct sunlight, ventilation, etc.; levelness of the installation site.
- The original has a problem that may cause a defective image.
- The density is properly selected.
- The Original Glass, slit glass, or related part is dirty.
- Correct paper is being used for printing.
- The units, parts, and supplies used for printing (developer, PC Drum, etc.) are properly replenished and replaced when they reach the end of their useful service life.
- Toner is not running out.

- To unplug the power cord of the machine before starting the service job procedures.
- If it is unavoidably necessary to service the machine with its power turned ON, use utmost care not to be caught in the Scanner Cables or gears of the Exposure Unit.
- Special care should be used when handling the Fusing Unit which can be extremely hot.
- The Developing Unit has a strong magnetic field. Keep watches and measuring instruments away from it.
- Take care not to damage the PC Drum with a tool or similar device.
- Do not touch IC pins with bare hands.

5. I/O check

5.1 Check procedure

• To allow sensors to be checked for operation easily and safely, data applied to the IC on the board can be checked on the panel with the main unit in the standby state (including a misfeed, malfunction, and closure failure condition).

<Procedure>

- 1. Display Tech. Rep. Mode.
- For details of how to display the Service Mode screen, see the Adjustment/Setting of the main unit service manual.
- 2. Touch the [I/O Check].
- 3. Touch the [Printer].
- 4. Touch the [Tray 3] or [Tray 4].

5.2 I/O check list

5.2.1 I/O check screen

 This is only typical screen which may be different from what are shown on each individual main unit.

Tray Set	0	Pickup	0	Tray Set	01	
Paper Near Empty	0			Paper Near Empty	0	
Paper Empty	0			Paper Empty	0	
Vpper Side Detect	0			Vpper Side Detect	0	
CD Size 1	0			CD Size 1	0	
CD Size2	0			CD Size2	0	
FD Size 1	0			FD Size 1	0	
FD Size 2	0			FD Size 2	o	
FD Size 3	0			FD Size 3	0	
FD Size 4	0			FD Size 4	0	
Take-up Lower	0			Pickup	0	

5.2.2 Sensor check list

A. Printer (PC-102/PC-202)

Symbol	Panel display		Part/Signal name	Operation characteristics/ Panel display	
				1	0
PC112-PF		Tray Set	Tray3 Set Sensor	Set	Out of position
PC113-PF		Paper Near Empty	Tray3 Paper Near-Empty Sensor	Blocked	Unblocked
PC115-PF		Paper Empty	Tray3 Paper Empty Sensor	Paper not present	Paper present
PC114-PF		Upper Side Detect	Tray3 Lift Sensor	Raised Position	Not raised
PC118-PF		CD Size 1	Tray3 CD Paper Size Sensor 1	Maximum value	Not at maxi- mum value
PC119-PF		CD Size 2	Tray3 CD Paper Size Sensor 2	Maximum value	Not at maxi- mum value
	Tray 3	FD Size 1		Maximum value	Not at maxi- mum value
		FD Size 2	Tray3 FD Paper Size Detection	Maximum value	Not at maxi- mum value
		FD Size 3	Board	Maximum value	Not at maxi- mum value
		FD Size 4		Maximum value	Not at maxi- mum value
PC111-PF		Take-up Lower	Door Sensor	When opened	When closed
PC116-PF		Pickup	Tray3 Paper Take-Up Sensor	Paper present	Paper not present
PC121-PF		Tray Set	Tray4 Set Sensor	Set	Out of position
PC122-PF		Paper Near Empty	Tray4 Paper Near-Empty Sensor	Blocked	Unblocked
PC124-PF		Paper Empty	Tray4 Paper Empty Sensor	Paper not present	Paper present
PC123-PF		Upper Side Detect	Tray4 Lift Sensor	Raised Position	Not raised
PC127-PF		CD Size 1	Tray4 CD Paper Size Sensor 1	Maximum value	Not at maxi- mum value
PC128-PF	Tray 4	CD Size 2	Tray4 CD Paper Size Sensor 2	Maximum value	Not at maxi- mum value
		FD Size 1		Maximum value	Not at maxi- mum value
		FD Size 2	Tray4 FD Paper Size Detection	Maximum value	Not at maxi- mum value
FVVD-14 PF		FD Size 3	Board	Maximum value	Not at maxi- mum value
		FD Size 4		Maximum value	Not at maxi- mum value
PC125-PF		Pickup	Tray4 Paper Take-Up Sensor	Paper present	Paper not present

PC-102/PC-202

6. Mechanical adjustment

6.1 Registration (CD)

NOTE

PC-102/PC-202

Make this adjustment after any of the following procedures has been performed.

- When the PH Unit has been replaced.
- When the image on the copy is offset in the CD direction.
- When a faint image occurs on the leading edge of the image.
- 1. Display Tech. Rep. Mode.
- For details of how to display the Tech. Rep. Mode screen, see the Adjustment/Setting of the main unit service manual.

Adjust	END
Printer	canner
	4061E3C517DA



- Press the Stop key followed by the Start key to display the Adjust Mode.
- 3. Touch the [Printer].

4. Touch the [Registration (CD)].

5. Touch the [Test Print].

- 6. Touch the [Tray 3] or [Tray 4].
- 7. Press the Start key.









- Measure the width of printed reference line A.
 - Specification: 10 mm ± 2.0 mm
- If width A falls within the specified range, finish the adjustment procedure. If outside the specified range, perform the adjustment below.
- 10. Touch [END] to display the Registration (CD) screen.
- 11. Touch the [Tray 3] or [Tray 4].

- 12. Press the Clear key and use the 10-Key Pad to set the value.
- If width A is wider than the specified range, enter a negative value.
- If width A is narrower than the specified range, enter a positive value.

Adjustment range: + 4.0 max. and -4.0 min.

Use the * key to switch between + and -.

13. Turn OFF the Main Power Switch, wait for 10 sec., then turn the switch ON.

NOTE

• If width A falls outside the specified range, redo the adjustment from step 13.





- *14.* Slide out the Tray [1] and unload paper from it.
- 15. Loosen three screws [2] at the center of the Paper Lifting Plate.
- Watching the graduations [3] provided in the drawer, move the Edge Guide [4] in the rear.
- If width A is greater than the specified value, move the Edge Guide toward the front.
- If width A is smaller than the specified value, move the Edge Guide toward the rear.
- 17. Perform another test print and check the reference deviation.
- 18. Repeat the adjustment until the reference line falls within the specified range.
- 19. Tighten the adjustment screw.
- 20. Repeat steps 1 to 19 similarly for the tray 4.

6.2 Registration (FD)

NOTE

Make this adjustment after any of the following procedures has been performed.

- When the PH Unit has been replaced.
- When the image on the copy is offset in the FD direction.

4061F3C518DA

4061F3C521DA

4061F3C520DA

END

Hax +19(+6.09nm) Hin -19(-6.09nm)

END

ray 3

Duplex

1. Display Tech. Rep. Mode.

Registration(FD)

0.32

Test Print

Test Print

Tray 1

Tray 4

Tray 2

Вура

For details of how to display the Tech. Rep. Mode screen, see the Adjustment/Setting of the main unit service manual.

	Adjust	EN	0
	Printer	Scanner	
I			4061F3C517DA
	Printer	E	40
	Registration(CD)	Registration	n(FD)

- 2. Press the Stop key followed by the Start key to display the Adjust Mode.
- 3. Touch the [Printer].

4. Touch the [Registration (FD)].

5. Touch the [Test Print].

- 6. Touch the [Tray 3] or [Tray 4].
- 7. Press the Start key.





8. Measure the width of printed reference line B.

Specification: 11.3 mm \pm 1.5 mm

- If width B falls within the specified range, finish the adjustment procedure. If outside the specified range, perform the adjustment below.
- 10. Touch [END] to display the Registration (FD) screen.

- 11. Press the Clear key and use the 10-Key Pad to set the value.
- If width B is wider than the specified range, enter a negative value.
- If width B is narrower than the specified range, enter a positive value.
- Adjustment range: + 19.0 (+6.08 mm) max. and -19.0 (-6.08 mm) min. Use the * key to switch between + and -.
- 12. Perform another test print and check the reference deviation.
- 13. Repeat the adjustment until the reference line falls within the specified range.

PC-102/PC-202

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PC-102/PC-202

Troubleshooting

7. Jam Display

7.1 Misfeed display

• When misfeed occurs, message, misfeed location "Blinking" and paper location "Lighting" are displayed on the Touch Panel of the main unit.



No.	Misfeed location	Misfeed access location	Action
[4]	Tray 3 Paper Take-Up Section Tray 3 Paper Vertical Transport Section	Right Door	<i>s</i> 24
[']	Tray 4 Paper Take-Up Section Tray 4 Paper Vertical Transport Section	Right Door	æ 25

7.1.1 Misfeed display resetting procedure

• Open the corresponding door, clear the sheet of paper misfeed, and close the door.

7.2 Sensor layout



- Tray3 Vertical Conveyance [2] PC117-PF Sensor
- Tray3 Paper Take-Up Sensor PC116-PF [3]
- [5] Tray4 Paper Take-Up Sensor PC125-PF

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7.3 Solution

7.3.1 Initial check items

• When a paper misfeed occurs, first perform the following initial check items.

Check item	Action
Does paper meet product specifications?	Replace paper.
Is the paper curled, wavy, or damp?	Replace paper. Instruct the user on the correct paper storage pro- cedures.
Is a foreign object present along the paper path, or is the paper path deformed or worn?	Clean the paper path and replace if necessary.
Are the Paper Separator Fingers dirty, deformed, or worn?	Clean or replace the defective Paper Separator Fin- ger.
Are rolls/rollers dirty, deformed, or worn?	Clean or replace the defective roll/roller.
Are the Edge Guide and Trailing Edge Stop at the correct position to accommodate the paper?	Set as necessary.
Are the actuators operating correctly?	Correct or replace the defective actuator.

7.3.2 Tray3 Paper Take-Up section/Vertical Transport section misfeed (PC-102/ PC-202)

A. Detection timing

Туре	Description
	The leading edge of the paper does not block the Tray3 Vertical Convey- ance Sensor (PC117-PF) even after the set period of time has elapsed after the Tray3 Paper Feed Motor (M122-PF) is energized.
Tray3 Paper Take-Up section/ Vertical transport section misfeed detection	The Vertical Conveyance Sensor (PC2) is not blocked even after the lapse of a given period of time after the Tray3 Vertical Conveyance Sensor (PC117-PF) has been blocked by a paper.
	The Tray3 Vertical Conveyance Sensor (PC117-PF) is not unblocked even after the lapse of a given period of time after PC117-PF has been blocked by a paper.
Tray3 detection of paper	The Tray3 Vertical Conveyance Sensor (PC117-PF) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.
remaining	The Tray3 Paper Take-Up Sensor (PC116-PF) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.

B. Action

Relevant electrical parts			
Tray3 Paper Take-Up Sensor (PC116-PF) Tray3 Vertical Conveyance Sensor (PC117-PF) Vertical Conveyance Sensor (PC2) Tray3 Paper Feed Motor (M122-PF)	Main Control Board (PWB-C2 PF)		

		WIRING DIAGRAM		
Step	Action	Control signal	Location (Electrical components)	
1	Initial check items	-	-	
2	PC116-PF sensor check	PWB-C2 PF PJ6C2 PF-8 (ON)	PC-202 C-4	
3	PC117-PF sensor check	PWB-C2 PF PJ6C2 PF-11 (ON)	PC-202 C-4	
4	PC2 sensor check	PWB-A PJ22A-9 (ON)	D-7	
5	M122-PF operation check	PWB-C2 PF PJ5C2 PF-1 to 4	PC-202 C-4	
6	PWB-C2 PF replacement	-	-	

PC-102/PC-202

7.3.3 Tray4 Paper Take-Up section/Vertical Transport section misfeed (PC-202)

A. Detection timing

Туре	Description
	The leading edge of the paper does not block the Tray4 Vertical Convey- ance Sensor (PC126-PF) even after the set period of time has elapsed after the Tray4 Paper Feed Motor (M123-PF) is energized.
Tray4 Paper Take-Up section/ Vertical transport section misfeed detection	The Tray3 Vertical Conveyance Sensor (PC117-PF) is not blocked even after the lapse of a given period of time after the Tray4 Vertical Conveyance Sensor (PC126-PF) has been blocked by a paper.
	The Tray4 Vertical Conveyance Sensor (PC126-PF) is not unblocked even after the lapse of a given period of time after PC126-PF has been blocked by a paper.
Tray4 detection of paper	The Tray4 Vertical Conveyance Sensor (PC126-PF) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.
remaining	The Tray4 Paper Take-Up Sensor (PC125-PF) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.

B. Action

Relevant electrical parts			
Tray4 Paper Take-Up Sensor (PC125-PF) Tray4 Vertical Conveyance Sensor (PC126-PF) Tray3 Vertical Conveyance Sensor (PC117-PF) Tray4 Paper Feed Motor (M123-PF)	Main Control Board (PWB-C2 PF)		

		WIRING DIAGRAM		
Step	Action	Control signal	Location (Electrical components)	
1	Initial check items	-	-	
2	PC125-PF sensor check	PWB-C2 PF PJ10C2 PF-8 (ON)	PC-202 G-6	
3	PC126-PF sensor check	PWB-C2 PF PJ11C2 PF-2 (ON)	PC-202 G-6	
4	PC117-PF sensor check	PWB-C2 PF PJ6C2 PF-11 (ON)	PC-202 C-4	
5	M123-PF operation check	PWB-C2 PF PJ5C2 PF-1 to 4	PC-202 G-6	
6	PWB-C2 PF replacement	-	-	

8. Trouble code

8.1 Trouble code display

• The main unit's CPU performs a self-diagnostics function that, on detecting a malfunction, gives the corresponding malfunction code on the Touch Panel.



8.2 Trouble code list

Code	Item	Description
C0206	Tray3 Lift-Up Failure	The Lift-Up Sensor is not blocked even after the set
C0208	Tray4 Lift-Up Failure	period of time has elapsed after the paper lift-up operation for the drawer began.

• Open and close the Front Door or turn OFF and ON the Main Power Switch.

PC-102/PC-202

8.3 Solution

8.3.1 C0206: Tray3 Lift-Up Failure C0208: Tray4 Lift-Up Failure

Relevant electrical parts		
Tray3 Lift Motor (M-124-PF)	Main Control Board (PWB-C2 PF)	
Tray4 Lift Motor (M-125-PF)	Main unit Control Board (PWB-MC)	
Tray3 Lift Sensor (PC114-PF)	Main unit DC Power Supply (PU1)	
Tray4 Lift Sensor (PC123-PF)		

Step	Action	WIRING DIAGRAM	
		Control signal	Location (Electrical components)
1	Check the motor and sensor connectors for proper connection, and correct as necessary.	-	-
2	Check the connector of each motor for proper drive coupling, and correct as necessary.	-	-
3	Check the PU1 connector for proper connection, and correct as necessary.	-	-
4	PC114-PF sensor check	PWB-C2 PF PJ6C2 PF-3 (ON)	PC-202 C-3
5	PC123-PF sensor check	PWB-C2 PF PJ10C2 PF-3 (ON)	PC-202 G-5
6	M124-PF operation check	PWB-C2 PF PJ4C2 PF-4 to 5	PC-202 C-5
7	M125-PF operation check	PWB-C2 PF PJ8C2 PF-12 to 13	PC-202 G-3
8	PWB-C2 PF replacement	-	-
9	PWB-MC replacement	-	-
10	PU1 replacement	-	-

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SERVICE MANUAL

FIELD SERVICE

PC-402

2005.08 KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. Ver. 1.0 After publication of this service manual, the parts and mechanism may be subject to change for improvement of their performance.

Therefore, the descriptions given in this service manual may not coincide with the actual machine.

When any change has been made to the descriptions in the service manual, a revised version will be issued with a revision mark added as required.

Revision mark:

- To indicate clearly a section revised, show \triangle to the left of the revised section. A number within \triangle represents the number of times the revision has been made.
- To indicate clearly a section revised, show **A** in the lower outside section of the corresponding page.

A number within **A** represents the number of times the revision has been made.

NOTE

Revision marks shown in a page are restricted only to the latest ones with the old ones deleted.

- When a page revised in Ver. 2.0 has been changed in Ver. 3.0: The revision marks for Ver. 3.0 only are shown with those for Ver. 2.0 deleted.
- When a page revised in Ver. 2.0 has not been changed in Ver. 3.0: The revision marks for Ver. 2.0 are left as they are.

2005/08	1.0	_	Issue of the first edition
Date	Service manual Ver.	Revision mark	Descriptions of revision

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General

1. Product specification

А. Туре

Name	arge Capacity Cabinet		
Туре	Front loading type LCC		
Installation	Desk type		
Document Alignment	Center		

B. Paper type

Туре	Plain paper	56 to 90 g/m ² (15 to 24 lb)
Size	A4, 8.5 × 11	
Capacity	2500 sheets (80 g/m ² , 21.25 lb)	

C. Machine specifications

Power Requirements	DC 24 V \pm 10 % (supplied from the main unit)		
	DC 5 V ± 5 %		
Max. Power Consumption	45 W or less		
Dimensions	570 mm (W) × 548 mm (D) × 263 mm (H)		
Weight	26.0 kg (57 lb)		

D. Operating environment

• Conforms to the operating environment of the main unit.

NOTE

• These specifications are subject to change without notice.

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Maintenance

Maintenance

2. Periodical check

2.1 Maintenance procedure (Periodical check parts)

2.1.1 Replacing the Separation Roller Assy







- 1. Remove the Right Door.
- æ 10
- Remove two screws [1] and remove the Paper Separation Roller Mounting Bracket Assy [2].
- Remove two C-rings [3] and the shaft [4], and remove the Paper Separation Roller Fixing Bracket Assy [5].

NOTE

- Be careful not to lose spring at this time.
- Remove the C-ring [6], the Guide [7], and remove the Separation Roller Assy [8].

NOTE

- Install the Separation Roller Assy while pressing the holder down so that it aligns to the metal bracket of the machine.
- Make sure that the Separation Roller Assy is not tilted to the right or left when installed.



NOTE

• Replace the Separation Roller Assy, Paper Take-up Roller and Pick-up Roller at the same time.

2.1.2 Replacing the Paper Take-up Roller









1. Remove the Rear Cover and the Rear Right Cover.

e 10

- 2. Remove the Tray3.
- 3. Remove the Paper Separation Roller Mounting Bracket Assy.
- See steps 1 to 2 of "Replacing the Separation Roller" on p. 3.
- 4. Disconnect the connector [1] from the Main Control Board.
- 5. Remove four screws [2] and remove the Paper Take-up Unit [3].

- Remove two screws [4] and remove the Mounting Frame [5] for the Paper Separation Roller Mounting Bracket Assy.
- 7. Remove two screws [6] and remove the Paper Take-up Cover [7].







8. Remove two C-rings [8] and remove the bushing [9].

- 9. Shift the Shaft Assy [10] in the orienremove the C-ring [11] and the gear
- 10. Remove the shaft Assy [10].

[12].

tation as shown on the left, and

11. Remove two E-rings [13] and the bushing [14], and remove the Pickup Roller Fixing Bracket Assy [15].



12. Remove the C-ring [16] and remove the Paper Take-up Roller [17].

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NOTE

• Replace the Separation Roller Assy, Paper Take-up Roller and Pick-up Roller at the same time.

2.1.3 Replacing the Pick-up Roller







- 1. Remove the Rear Cover and the Rear Right Cover.
- ൙ 10
- 2. Remove the Tray3.
- 3. Remove the Paper Separation Roller Mounting Bracket Assy.
- See steps 1 to 2 of "Replacing the Separation Roller" on p. 3.
- 4. Disconnect the connector [1] from the Main Control Board.
- 5. Remove four screws [2] and the Paper Take-up Unit [3].

6. Remove two screws [4] and remove the Paper Separation Roller Mounting Bracket Assy [5] together with frame.

7. Remove two screws [6] and remove the Paper Take-up Cover [7].

 Remove two C-rings [8], two bushings [9], and the Pick-up Roller Assy [10].

9. Remove the C-ring [11] and remove the Pick-up Roller [12].

NOTE

• Replace the Separation Roller Assy, Paper Take-up Roller and Pick-up Roller at the same time.

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Maintenance

3. Other

3.1 Disassembly/Adjustment prohibited items

- A. Screws to which blue paint or green paint is applied
- Blue paint or green paint is applied to some screws to prevent them from coming loose.
- As a general rule, screws to which blue paint or green paint is applied should not be removed or loosened.
- B. Red-painted screws
- Do not remove or loosen any of the red-painted screws in the field. It should also be noted that, when two or more screws are used for a single part, only one representative screw may be marked with the red paint.
- C. Variable Resistors on Board

NOTE

• Do not turn the variable resistors on boards for which no adjusting instructions are given in Adjustment/Setting.

D. Removal of PWBs

- When removing a circuit board or other electrical component, refer to "SAFETY AND IMPORTANT WARNING ITEMS" and follow the corresponding removal procedures.
- The removal procedures given in the following omit the removal of connectors and screws securing the circuit board support or circuit board.
- When it is absolutely necessary to touch the ICs and other electrical components on the board, be sure to ground your body.

3.2 Disassembly/Assembly/Cleaning list (Other parts)

3.2.1 Disassembly/Assembly parts list

No	Section	Part name	Ref. page
1	Exterior parts	Right Door	e 10
2		Rear Right Cover	e 10
3		Lower Right Cover	e 10
4		Front Right Cover	e 10
5		Rear Cover	e 10
6	Unit	Drawer	e 11
7		Wire	e 11

3.2.2 Cleaning parts list

No	Section	Part name	Ref. page
1		Separation Roller	æ 14
2	Paper feed section	Paper Take-up Roller	æ 14
3		Pick-up Roller	æ 14
4	Transport section	Vertical Transport Roller	æ 15

3.3 Disassembly/Assembly procedure

3.3.1 Right Door/Rear Right Cover/Lower Right Cover/Front Right Cover



- 1. Open the Right Door [1].
- 2. Remove the Right Door [1].
- 3. Remove two screws [2] and remove the Rear Right Cover [3].
- 4. Remove two screws [4] and remove the Lower Right Cover [5].
- 5. Remove two screws [6] and remove the Front Right Cover [7].

3.3.2 Rear Cover



1. Remove four screws [1] and remove the Rear Cover [2].













- 1. Press the Drawer Eject Button [1] and slide out the drawer [2].
- 2. Remove the paper.
- 3. Remove four screws [3] and slide out the drawer [2].
- Remove two screws [4], the connector tor [5], and remove the Connector Board [6].
- 5. Remove the Drawer.

NOTE

• When removing the Connector Board, use care not to drop the drawer from the guide rail.

• To prevent injuries, press the guide rail [7] inside the machine.

- 1. Remove the Drawer.
- e 11
- 2. Remove four screws [1] and remove the Front Cover Assy [2].
- 3. Unplug the connector [3].
- 4. Remove two screws [4] and the Inner Cover Assy [5].

NOTE

• Do not peel off pulley protective mylar sheet.











5. Remove two screws [6] and remove the Driver Cover [7].

 Remove three screws [8] and remove the Driver Mounting Plate Assy [9].

NOTE

- When assembling, be sure to engage rib of gear 1 [10] with convex section of gear 2 [11].
- Remove three screws [12] and remove the Reinforcement Bracket Assy [13].

- 8. Remove two C-clips [14].
- 9. Remove four Pulley Covers [15].
- 10. Unhook four pulleys [16].











- 11. Remove the Ground Plate [17].
- 12. Remove four Cable Holding Jigs [18] and remove the Main Drawer [19].

NOTE

- Use care not to bend the wires.
- 13. Remove four screws [20] and remove the Rear Trailing Edge Assy [21].

 Remove four screws [22] and remove the Front Trailing Edge Assy [23].

- 15. Remove three C-rings [24], the bushing [25], and two gears [26].
- 16. Remove the Take-up Drum Assy [27].
- 17. Remove two C-rings [28]and the Take-up Drum [29].

NOTE

- Take care not to lose fixing pins.
- When reinstalling the Take-up Drum, check that the direction of the wire coming from both Take-up Drums are the same.
- Install so that cut parts [30] at both ends of shaft face up.

3. Other

3. Other

NOTE

3.4 Cleaning procedure

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• The alcohol described in the cleaning procedure represents the isopropyl alcohol.

3.4.1 Separation Roller





3.4.2 Paper Take-up Roller



3.4.3 Pick-up Roller



- 1. Remove the Right Door.
- æ 10
- Remove two screws [1] and remove the Paper Separation Roller Mounting Bracket Assy [2].
- Using a soft cloth dampened with alcohol, wipe the Separation Roller
 [3] clean of dirt.

- 1. Remove the Tray3.
- 2. Remove the Paper Separation Roller Mounting Bracket Assy.
- See steps 1 to 2 of the cleaning procedure for "Separation Roller" on p. 14.
- 3. Using a soft cloth dampened with alcohol, wipe the Paper Take-Up Roller [1] clean of dirt.
- 1. Remove the Tray3.
- 2. Remove the Paper Separation Roller Mounting Bracket Assy.
- See steps 1 to 2 of the cleaning procedure for "Separation Roller" on p. 14.
- 3. Using a soft cloth dampened with alcohol, wipe the Pick-up Roller [1] clean of dirt.

Vertical Transport Roller 3.4.4



- Open the Right Door.
 Using a soft cloth dampened with alcohol, wipe the Vertical Transport Roller [1] clean of dirt.

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Adjustment/Setting

4. How to use the adjustment section

- "Adjustment/Setting" contains detailed information on the adjustment items and procedures for this machine.
- Throughout this "Adjustment/Setting," the default settings are indicated by " ".

Advance Checks

Before attempting to solve the customer problem, the following advance checks must be made. Check to see if:

- The power supply voltage meets the specifications.
- The power supply is properly grounded.
- The machine shares the power supply with any other machine that draws large current intermittently (e.g., elevator and air conditioner that generate electric noise).
- The installation site is environmentally appropriate: high temperature, high humidity, direct sunlight, ventilation, etc.; levelness of the installation site.
- The original has a problem that may cause a defective image.
- The density is properly selected.
- The Original Glass, slit glass, or related part is dirty.
- Correct paper is being used for printing.
- The units, parts, and supplies used for printing (developer, PC Drum, etc.) are properly replenished and replaced when they reach the end of their useful service life.
- Toner is not running out.

- To unplug the power cord of the machine before starting the service job procedures.
- If it is unavoidably necessary to service the machine with its power turned ON, use utmost care not to be caught in the Scanner Cables or gears of the Exposure Unit.
- Special care should be used when handling the Fusing Unit which can be extremely hot.
- The Developing Unit has a strong magnetic field. Keep watches and measuring instruments away from it.
- Take care not to damage the PC Drum with a tool or similar device.
- Do not touch IC pins with bare hands.

5. I/O check

5.1 Check procedure

• To allow sensors to be checked for operation easily and safely, data applied to the IC on the board can be checked on the panel with the main unit in the standby state (including a misfeed, malfunction, and closure failure condition).

<Procedure>

- 1. Display Tech. Rep. Mode.
- For details of how to display the Service Mode screen, see the Adjustment/Setting of the main unit service manual.
- 2. Touch the [I/O Check].
- 3. Touch the [Printer].
- 4. Touch the [LCT].

5.2 I/O check list

5.2.1 I/O check screen

• This is only typical screen which may be different from what are shown on each individual main unit.

LCT	END	
LCT1 Yertical Transport Feed Shift Tray Paper Empty Main Tray Paper Empty Paper Empty Lower Overrun Manual Button Down Tray Open	LCT2 0 Raised(Lift-Up) 1 Covered Home(Shift) 0 Stop Position Elev. Mtr Pulse 0 Shift Mtr Pulse 0 Dividing 0 Right Door Open 0	0 0 0 0 0 0 0 0

A. Printer (PC-402)

				Operation ch	aracteristics/
Symbol		Panel display	Part/Signal name	Panel display	
				1	0
		Vertical Transport	Vertical Conveyance Sensor	Paper	Paper not
102-201		ventical nanoport	ventical conveyance Sensor	present	present
PC1-I CT		Feed	Paper Feed Sensor	Paper	Paper not
101201		1000		present	present
PC9-I CT		Shift Tray Paper	Shift Tray Paper Empty Sensor	Paper	Paper not
100 201		Empty		present	present
PC3-LCT		Main Tray Paper	Upper Paper Empty Sensor	Paper	Paper not
		Empty		present	present
PWB-E		Paper Empty	Paper Empty Board	Paper	Paper not
LCT		i apoi empiy		present	present
PC7-LCT		Lower Overrun	Lower Limit Sensor	malfunction	operational
UN1-LCT		Manual Button Down	Paper Descent Key	ON	OFF
PC6-LCT	LCT	Tray Open	Tray Set Sensor	Open	Close
PC4-LCT		Raised (lift-Up)	Tray Upper Limit Sensor	At raised position	Not at raised position
PC13-LCT		Lowered (Lift up)	Tray Lower Position Sensor	At lower limit	Not at lower limit
PC12-LCT		Home (Shift)	Shifter Home Position Sensor	At home	Not at home
PC11-LCT		Shift Tray Stop Position	Shifter Return Position Sensor	At stop position	Not at stop position
PC10-LCT		Elev. Mtr Pulse	Elevator Motor Pulse Sensor	Blocked	Unblocked
PC8-LCT		Shift Mtr Pulse	Shift Motor Pulse Sensor	Blocked	Unblocked
PC14-LCT		Dividing Position	Shift Gate Home Position Sensor	At home	Not at home
PC5-LCT		Right Door Open	Right Lower Door Sensor	Open	Close

6. Mechanical adjustment

6.1 Registration (CD)

NOTE

Make this adjustment after any of the following procedures has been performed.

- When the PH Unit has been replaced.
- When the image on the copy is offset in the CD direction.

END

- When a faint image occurs on the leading edge of the image.
- 1. Display Tech. Rep. Mode.

Printer

For details of how to display the Service Mode screen, see the Adjustment/Setting of the main unit service manual.

Adjust	END
Printer	Scanner
	4061F3E523DA

Registration(CD) Registration(FD)

- Press the Stop key followed by the Start key to display the Adjust Mode.
 Touch the [Drinted]
- 3. Touch the [Printer].

4. Touch the [Registration (CD)].



5. Touch the [Test Print].



- 6. Touch the [Tray 3].
- 7. Press the Start key.











8. Measure the width of printed reference line A.

Specification: 10 mm \pm 2.0 mm

- 9. If the measured width A falls outside the specified range, enter the correction value.
- 10. Produce another test print and check to see if width A falls within the specified range.
- If adjustment cannot be completed only by inputting numeric value, perform adjustment according to the following procedure.
- Press the Drawer Release button [1] and then slide out the drawer [2] from the Paper Feed Cabinet.

- 12. Open the Right Door.
- Loosen the adjustment screw [3] and turn screw D [4] to make the adjustment.

NOTE

- Do not damage the passage surface of the Right Door.
- Adjustment / Setting
- If width A is greater than the specified value: Turn screw D counterclockwise.

• If width A is smaller than the specified value: Turn screw D clockwise.

6. Mechanical adjustment

- 14. Perform another test print and check the reference deviation.
- 15. Tighten the adjustment screw.

6.2 Registration (FD)

NOTE

Make this adjustment after any of the following procedures has been performed.

- When the PH Unit has been replaced.
- When the image on the copy is offset in the FD direction.
- 1. Display Tech. Rep. Mode.
- For details of how to display the Service Mode screen, see the Adjustment/Setting of the main unit service manual.

Adjust	END Scanner	
	4061F	3E523DA
Printer Registration(CD)	END Registration(FD)	
	4061F	3E524DA
Registration(FD) 0 x0.32mm	END	

Max +19(+6.08nn) Min -19(-6.08nn)

END

Duplex

4061F3E527DA

4061F3E526DA

Test Print

Test Print

Tray 1

Tray 4

Tray 2

Bypass

- 2. Press the Stop key followed by the Start key to display the Adjust Mode.
- 3. Touch the [Printer].

4. Touch the [Registration (FD)].

5. Touch the [Test Print].

- 6. Touch the [Tray 3].
- 7. Press the Start key.





8. Measure the width of printed reference line B.

Specification: 11.3 mm \pm 1.5 mm

 If width B falls within the specified range, finish the adjustment procedure.
 If outside the specified range, per-

If outside the specified range, perform the adjustment below.

10. Touch [END] to display the Registration (FD) screen.

- 11. Press the Clear key and use the 10-Key Pad to set the value.
- If width B is wider than the specified range, enter a negative value.
- If width B is narrower than the specified range, enter a positive value.

Adjustment range: + 19.0 (+6.08 mm) max. and -19.0 (-6.08 mm) min. Use the * key to switch between + and -.

12. Perform another test print and check the reference deviation.

13. Repeat the adjustment until the reference line falls within the specified range.

6.3 Shifter Movement Timing Belt Adjustment









- 1. Slide out the Drawer and remove it.
- Lift the Main Drawer [1], and remove two screws [2] fixing the Shift Tray.

 NOTE
- When reinstalling, use caution because the wire of the Main Drawer comes off easily.
- 3. Remove two screws [3] and remove the Shifter [4].

- Push the tab [6] of the Shift Tray [5] as shown on the left and release the lock.
- 5. Remove the Shift Tray [5].
- Loosen the screw [7] fixing the Tension Pulley Assy as shown to the left and move it in the direction of the arrow.
- 7. After moving the Shifter, tighten the fixing screw [7].

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Troubleshooting

7. Jam Display

7.1 Misfeed display

• When misfeed occurs, message, misfeed location "Blinking" and paper location "Lighting" are displayed on the Touch Panel of the main unit.



No.	Misfeed location	Misfeed access location	Action
[1]	LCT Paper Take-Up section	Right Door	e 28
	LCT Vertical Transport Section	Right Door	~ 20

7.1.1 Misfeed display resetting procedure

• Open the corresponding door, clear the sheet of paper misfeed, and close the door.

7.2 Sensor layout





PC-402

7.3 Solution

7.3.1 Initial check items

• When a paper misfeed occurs, first perform the following initial check items.

Check item	Action
Does paper meet product specifications?	Replace paper.
Is the paper curled, wavy, or damp?	Replace paper. Instruct the user on the correct paper storage pro- cedures.
Is a foreign object present along the paper path, or is the paper path deformed or worn?	Clean the paper path and replace if necessary.
Are the Paper Separator Fingers dirty, deformed, or worn?	Clean or replace the defective Paper Separator Fin- ger.
Are rolls/rollers dirty, deformed, or worn?	Clean or replace the defective roll/roller.
Are the Edge Guide and Trailing Edge Stop at the correct position to accommodate the paper?	Set as necessary.
Are the actuators operating correctly?	Correct or replace the defective actuator.

7.3.2 LCT Paper Take-Up section/LCT Vertical Transport Section

A. Detection timing

Туре	Description
	The leading edge of the paper does not block the Paper Feed Sensor (PC1-LCT) or the LCT Vertical Transport Sensor (PC2-LCT) even after the set period of time has elapsed after the Paper Feed Motor (M1-LCT) is energized.
LCT Paper Take-Up section/ Vertical transport section misfeed detection	The Vertical Conveyance Sensor (PC2) is not blocked even after the lapse of a given period of time after the LCT Vertical Transport Sensor (PC2-LCT) has been blocked by a paper.
	The Paper Feed Sensor (PC1-LCT) is not unblocked even after the lapse of a given period of time after PC1-LCT has been blocked by a paper.
LCT detection of paper	The LCT Vertical Transport Sensor (PC2-LCT) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.
remaining	The Paper Feed Sensor (PC1-LCT) is blocked when the Main Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.

B. Action

Relevant electrical parts		
Paper Feed Sensor (PC1-LCT)	Main Control Board (PWB-C1 LCT)	
Vertical Conveyance Sensor (PC2-LCT)		
Vertical Conveyance Sensor (PC2)		
Paper Feed Motor (M1-LCT)		

	Step Action	WIRING DIAGRAM		
Step		Control signal	Location (Electrical components)	
1	Initial check items	-	-	
2	PC1-LCT sensor check	PWB-C1 LCT PJ5C1 LCT-2 (ON)	PC-402 C-8	
3	PC2-LCT sensor check	PWB-C1 LCT PJ5C1 LCT-5 (ON)	PC-402 C-7	
4	PC2 sensor check	PWB-A PJ22A-9 (ON)	D-7	
5	M1-LCT operation check	PWB-C1 LCT PJ6C1 LCT-1 to 4	PC-402 C-8	
6	PWB-C1 LCT replacement	-	-	

8. Trouble code

8.1 Trouble code display

• The main unit's CPU performs a self-diagnostics function that, on detecting a malfunction, gives the corresponding malfunction code on the Touch Panel.



8.2 Trouble code list

Code	Item	Description
C0001	LCT communication error	 Due to a software malfunction, etc., the time on the watchdog timer has run out and a reset is performed.
C0209	LCT Elevator Motor Failure	 The Elevator Motor Pulse Sensor (PC10-LCT) cannot detect both edges of H/L even after the set period of time has elapsed while the Elevator Motor (M5-LCT) is turning backward/forward (raise/lower).

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	С

Code	Item	Description
		 The Tray Upper Limit Sensor (PC4-LCT) is not blocked even after the set period of time has elapsed after the paper lift-up operation began. The Tray Upper Limit Sensor (PC4-LCT) is not blocked even after the set pulse is detected by the Elevator Motor Pulse Sensor (PC10-LCT) after the paper lift-up operation began. The Tray Lower Position Sensor (PC13-LCT) is not unblocked even after the set pulse is detected by the
C0210	LCT Lift Failure	 The Tray Lower Position Sensor (PC10-LCT) after the paper lift-up operation began. The Tray Upper Limit Sensor (PC4-LCT) is not blocked even after the set period of time has elapsed after the paper lift-up operating. The Tray Lower Position Sensor (PC13-LCT) is not blocked even after the set period of time has elapsed after the paper lift-down operation began. The Tray Lower Position Sensor (PC13-LCT) is not blocked even after the set period of time has elapsed after the paper lift-down operation began. The Tray Lower Position Sensor (PC13-LCT) is not blocked even after the set pulse is detected by the Elevator Motor Pulse Sensor (PC10-LCT) after the paper lift-down operation began. The Tray Upper Limit Sensor (PC10-LCT) after the paper lift-down operation began. The Lower Limit Sensor (PC7-LCT) is blocked while the paper limit Sensor (PC7-LCT) is blocked while
C0212	LCT Lock Release Failure	 The drawer cannot be determined to be out of position even after the set period of time has elapsed after the Tray Lock Solenoid (SL1-LCT) is energized after the lowering operation is finished.
C0213	LCT Shift Gate Operation Failure	 The Shift Gate Home Position Sensor (PC14-LCT) cannot be set to L even after the set period of time has elapsed after the operation of the Shift Gate Motor (M3-LCT) began with the Shift Gate Home Position Sensor (PC14-LCT) set to L.

Code	Item	Description
C0214	LCT Shift Failure	 The Shifter Return Position Sensor (PC11-LCT) is not blocked even after the set period of time has elapsed after the shift operation began (shift to the right). The Shifter Return Position Sensor (PC11-LCT) is not blocked even after the set pulse is detected by the Shift Motor Pulse Sensor (PC8-LCT) after the shift operation began (shift to the right). The Shifter Home Position Sensor (PC12-LCT) is not unblocked even after the set pulse is detected by the Shift Motor Pulse Sensor (PC8-LCT) after the shift operation began (shift to the right). The Shifter Home Position Sensor (PC12-LCT) is not unblocked even after the set pulse is detected by the Shift Motor Pulse Sensor (PC8-LCT) after the shift operation began (shift to the right). The Shifter Home Position Sensor (PC12-LCT) is not blocked even after the set period of time has elapsed after the return operation began (shift to the left). The Shifter Home Position Sensor (PC12-LCT) is not blocked even after the set pulse is detected by the Shift Motor Pulse Sensor (PC8-LCT) after the return operation began (shift to the left). The Shifter Home Position Sensor (PC12-LCT) is not blocked even after the set pulse is detected by the Shift Motor Pulse Sensor (PC8-LCT) after the return operation began (shift to the left). The Shifter Return Position Sensor (PC11-LCT) is not unblocked even after the set pulse is detected by the Shift Motor Pulse Sensor (PC8-LCT) after the return operation began (shift to the left).
C0215	LCT Shift Motor Failure	 The Shift Motor Pulse Sensor (PC8-LCT) cannot detect both edges of H/L even after the set period of time has ward/forward (raise/lower).

• Open and close the Front Door or turn OFF and ON the Main Power Switch.

8.3 Solution

8.3.1 C0001: LCT communication error

Relevant electrical parts				
Main	Main Control Board (PWB-C1 LCT)			
			WIRING DIAGRAM	И
Step	Action		Control signal	Location (Electrical com- ponents)
1	Turn the main unit off, then on again.		-	-
2	PWB-C1 LCT replacement		-	-

8.3.2 C0209: LCT Elevator Motor Failure

Relevant electrical parts	
Elevator Motor (M5-LCT)	Interface Board (PWB-H LCT)
Elevator Motor Pulse Sensor (PC10-LCT)	Main Control Board (PWB-C1 LCT)

	Action	WIRING DIAGRAM	
Step		Control signal	Location (Electrical com- ponents)
1	Check the motor and sensor connectors for proper connection, and correct as necessary.	-	-
2	Check the connector of motor for proper drive coupling, and correct as neces- sary.	-	-
3	PC10-LCT sensor check	PWB-C1 LCT PJ2H <a> LCT-5 (ON)	PC-402 G-5
4	M5-LCT operation check	PWB-C1 LCT PJ2H LCT-6 to 7	PC-402 G-6
5	PWB-H LCT replacement	-	-
6	PWB-C1 LCT replacement	-	-

8.3.3 C0210: LCT Lift Failure

Relevant electrical parts		
Tray Upper Limit Sensor (PC4-LCT)	Main Control Board (PWB-C1 LCT)	
Tray Lower Position Sensor (PC13-LCT)		
Elevator Motor Pulse Sensor (PC10-LCT)		
Lower Limit Sensor (PC7-LCT)		

Step	Action	WIRING DIAGRAM		
		Control signal	Location (Electrical com- ponents)	
1	Check the sensor connectors for proper connection, and correct as necessary.	-	-	
2	PC4-LCT sensor check	PWB-C1 LCT PJ5C1 LCT-12 (ON)	PC-402 C-7	
3	PC13-LCT sensor check	PWB-C1 LCT PJ2H <a> LCT-9 (ON)	PC-402 G-3	
4	PC10-LCT sensor check	PWB-C1 LCT PJ2H <a> LCT-5 (ON)	PC-402 G-5	
5	PC7-LCT sensor check	PWB-C1 LCT PJ2H <a> LCT-2 (ON)	PC-402 G-6	
6	PWB-C1 LCT replacement	-	-	

8.3.4 C0212: LCT Lock Release Failure

Relevant electrical parts		
Tray Lock Solenoid (SL1-LCT)	Main Control Board (PWB-C1 LCT)	

Step	Action	WIRING DIAGRAM		
		Control signal	Location (Electrical com- ponents)	
1	Check the SL1-LCT connector for proper connection, and correct as nec- essary.	-	-	
2	SL1-LCT operation check	PWB-C1 LCT PJ7C1 LCT-4 (ON)	PC-402 C-8	
3	PWB-C1 LCT replacement	-	-	

8.3.5 C0213: LCT Shift Gate Operation Failure

Relevant electrical parts		
Shift Gate Home Position Sensor (PC14-LCT) Shift Gate Motor (M3-LCT)	Main Control Board (PWB-C1 LCT)	

Step	Action	WIRING DIAGRAM		
		Control signal	Location (Electrical com- ponents)	
1	Check the motor and sensor connectors for proper connection, and correct as necessary.	-	-	
2	Check the connector of motor for proper drive coupling, and correct as neces- sary.	-	-	
3	PC14-LCT sensor check	PWB-C1 LCT PJ2H LCT-1 (ON)	PC-402 G-6	
4	M3-LCT operation check	PWB-C1 LCT PJ2H LCT-2 to 3	PC-402 G-6	
5	PWB-C1 LCT replacement	-	-	

8.3.6 C0214: LCT Shift Failure

Relevant electrical parts			
Shift Motor Pulse Sensor (PC8-LCT) Shifter Return Position Sensor (PC11-LCT) Shifter Home Position Sensor (PC12-LCT)	Main Control Board (PWB-C1 LCT)		

Step	Action	WIRING DIAGRAM		
		Control signal	Location (Electrical com- ponents)	
1	Check the sensor connectors for proper connection, and correct as necessary.	-	-	
2	PC8-LCT sensor check	PWB-C1 LCT PJ2H <a> LCT-3 (ON)	PC-402 G-5	
3	PC11-LCT sensor check	PWB-C1 LCT PJ2H <a> LCT-7 (ON)	PC-402 G-4	
4	PC12-LCT sensor check	PWB-C1 LCT PJ2H <a> LCT-8 (ON)	PC-402 G-4	
5	PWB-C1 LCT replacement	-	-	

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8.3.7 C0215: LCT Shift Motor Failure

Relevant electrical parts			
Shift Motor (M4-LCT) Shift Motor Pulse Sensor (PC8-LCT)		Main Control Board (PWB-C1 LCT)	

	Action	WIRING DIAGRAM		
Step		Control signal	Location (Electrical com- ponents)	
1	Check the motor and sensor connectors for proper connection, and correct as necessary.	-	-	
2	Check the connector of motor for proper drive coupling, and correct as neces- sary.	-	-	
3	PC8-LCT sensor check	PWB-C1 LCT PJ2H <a> LCT-3 (ON)	PC-402 G-5	
4	M4-LCT operation check	PWB-C1 LCT PJ2H LCT-4 to 5	PC-402 G-6	
5	PWB-C1 LCT replacement	-	-	
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SERVICE MANUAL

FIELD SERVICE

JS-502

2005.08 KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. Ver. 1.0

Revision history

After publication of this service manual, the parts and mechanism may be subject to change for improvement of their performance.

Therefore, the descriptions given in this service manual may not coincide with the actual machine.

When any change has been made to the descriptions in the service manual, a revised version will be issued with a revision mark added as required.

Revision mark:

- To indicate clearly a section revised, show $\underline{\land}$ to the left of the revised section. A number within $\underline{\land}$ represents the number of times the revision has been made.
- To indicate clearly a section revised, show **(** in the lower outside section of the corresponding page.

A number within **A** represents the number of times the revision has been made.

NOTE

Revision marks shown in a page are restricted only to the latest ones with the old ones deleted.

- When a page revised in Ver. 2.0 has been changed in Ver. 3.0: The revision marks for Ver. 3.0 only are shown with those for Ver. 2.0 deleted.
- When a page revised in Ver. 2.0 has not been changed in Ver. 3.0: The revision marks for Ver. 2.0 are left as they are.

2005/08	1.0	—	Issue of the first edition
Date	Service manual Ver.	Revision mark	Descriptions of revision

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General

1. System configuration

А. Туре

Name	Job Separator
Туре	Expansion drawer
Installation	Installed in the copier
Document Alignment	Center

B. Paper type

Exit Tray	Size		Туре	
		Plain Pa	per (56 to 90 g/m ² ,15 to 24 lb)	250 sheets
			OHP transparencies	20 sheets
	(5.5 to 11 x 17 inch) width: 90 mm to 297 mm (3.5 to 11.75 inch) length: 139.7 mm to 432 mm (5.5 to 17 inch)		Thick paper (91 to 210g/m², 24.25 to 55.75 lb)	
Iray 1		Special	Envelope	
			Label	
			Letterhead	
			Governmentstandard postcards	
Tray 2	A5 to A3R (5.5 to 8.5 inch) Max.: 297 mm x 432 mm (11.75 to 17 inch) Min.: 139.7 mm x 139.7 mm (5.5 to 5.5 inch)	Plain Paper (56 to 90 g/m ² ,15 to 24 lb)		100 sheets

C. Machine specifications

Power Requirements	DC 5 V \pm 5 % (supplied from the main unit)
Max. Power Consumption	0.2 W or less
Dimensions	450 mm (W) x 443 mm (D) x 75 mm (H) 17.75 inch (W) x 17.5 inch (D) x 3 inch (H)
Weight	Approx. 1.7 kg (3.75 lb)

D. Operating environment

• Conforms to the operating environment of the main unit.

NOTE

• These specifications are subject to change without notice.

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Maintenance

2. Other

2.1 Disassembly/Adjustment prohibited items

- A. Screws to which blue paint or green paint is applied
- Blue paint or green paint is applied to some screws to prevent them from coming loose.
- As a general rule, screws to which blue paint or green paint is applied should not be removed or loosened.
- B. Red-painted screws
- Do not remove or loosen any of the red-painted screws in the field. It should also be noted that, when two or more screws are used for a single part, only one representative screw may be marked with the red paint.
- C. Variable Resistors on Board

NOTE

- Do not turn the variable resistors on boards for which no adjusting instructions are given in Adjustment/Setting.
- D. Removal of PWBs

A Caution

- When removing a circuit board or other electrical component, refer to "SAFETY AND IMPORTANT WARNING ITEMS" and follow the corresponding removal procedures.
- The removal procedures given in the following omit the removal of connectors and screws securing the circuit board support or circuit board.
- When it is absolutely necessary to touch the ICs and other electrical components on the board, be sure to ground your body.

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2.2 Disassembly/Assembly/Cleaning list (Other parts)

2.2.1 Disassembly/Assembly parts list

No.	Section	Part name		Ref.Page
1	Exterior parts	Upper Cover	q	4

2.3 Disassembly/Assembly procedure

2.3.1 Upper Cover



1. Remove two screws [1], and remove the Upper Cover [2].

2. Other

Adjustment/Setting

3. How to use the adjustment section

- "Adjustment/Setting" contains detailed information on the adjustment items and procedures for this machine.
- Throughout this "Adjustment/Setting," the default settings are indicated by " ".

Advance Checks

Before attempting to solve the customer problem, the following advance checks must be made. Check to see if:

- The power supply voltage meets the specifications.
- The power supply is properly grounded.
- The machine shares the power supply with any other machine that draws large current intermittently (e.g., elevator and air conditioner that generate electric noise).
- The installation site is environmentally appropriate: high temperature, high humidity, direct sunlight, ventilation, etc.; levelness of the installation site.
- The original has a problem that may cause a defective image.
- The density is properly selected.
- The Original Glass, slit glass, or related part is dirty.
- Correct paper is being used for printing.
- The units, parts, and supplies used for printing (developer, PC Drum, etc.) are properly replenished and replaced when they reach the end of their useful service life.
- Toner is not running out.

- To unplug the power cord of the machine before starting the service job procedures.
- If it is unavoidably necessary to service the machine with its power turned ON, use utmost care not to be caught in the Scanner Cables or gears of the Exposure Unit.
- Special care should be used when handling the Fusing Unit which can be extremely hot.
- The Developing Unit has a strong magnetic field. Keep watches and measuring instruments away from it.
- Take care not to damage the PC Drum with a tool or similar device.
- Do not touch IC pins with bare hands.

4. Sensor Check

4.1 Check procedure

• To allow sensors to be checked for operation easily and safely, data applied to the IC on the board can be checked on the panel with the main unit in the standby state (including a misfeed, malfunction, and closure failure condition).

<Procedure>

- 1. Display the Tech. Rep. Mode screen.
- For details of how to display the Tech. Rep. Mode screen, see the Adjustment/Setting of the main unit service manual.
- 2. Touch [I/O Check].
- 3. Touch [Job Tray].

4.2 I/O check list

4.2.1 I/O check screen

 This is only typical screen which may be different from what are shown on each individual main unit.



4.2.2 I/O check list

A. Job Tray

Symbol		Panel display	Part/Signal name	Operation characteristics/ Panel display	
			1	0	
PC1-JOB	ay	Upper Tray Full	Paper Full Detection Sensor	Blocked	Unblocked
-	b Tr	Turn Over Unit	Turn Over Unit Set signal	Set	Not set
-	٩	Job Tray	Job Tray Set signal	Set	Not set



SERVICE MANUAL

FIELD SERVICE

FS-508/PU-501 /OT-601

2005.08 KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. Ver. 1.0

Revision history

After publication of this service manual, the parts and mechanism may be subject to change for improvement of their performance.

Therefore, the descriptions given in this service manual may not coincide with the actual machine.

When any change has been made to the descriptions in the service manual, a revised version will be issued with a revision mark added as required.

Revision mark:

- To indicate clearly a section revised, show $\underline{\land}$ to the left of the revised section. A number within $\underline{\land}$ represents the number of times the revision has been made.
- To indicate clearly a section revised, show **(** in the lower outside section of the corresponding page.

A number within **A** represents the number of times the revision has been made.

NOTE

Revision marks shown in a page are restricted only to the latest ones with the old ones deleted.

- When a page revised in Ver. 2.0 has been changed in Ver. 3.0: The revision marks for Ver. 3.0 only are shown with those for Ver. 2.0 deleted.
- When a page revised in Ver. 2.0 has not been changed in Ver. 3.0: The revision marks for Ver. 2.0 are left as they are.

2005/08	1.0	—	Issue of the first edition
Date	Service manual Ver.	Revision mark	Descriptions of revision

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General

1. Product specifications

1.1 FS-508

А. Туре

Name	Multi staple finisher built into the copier
Installation	Installed in the copier
Document Alignment	Center
Consumables	Staples

B. Functions

Modes	Non sort, sort, group, sort stable, and punch (when PU-501 is mounted)

C. Paper type

(1) Non sort

Туре	Size	Weight		Max. Capacity		
Plain paper		56 to 90g/m² 15 to 24 lb	Exit Tray1 200 sheets			
			Exit Tray2	A4R, 8.5 x 11R or less	1000 sheets	
				B4, 8.5 x 14R Or greater	500 sheets	
Thick paper	A6R to A3	91 to 210g/m ²				
5.5 to 11 x17		24.25 to 55.75 lb				
OHP trans- parencies	Max. 297 mm x 431.8 mm 11.75 x 17 inch Min. 100 mm x 139.7 mm 4 x 5.5 inch	-	20 sheets			
Translucent paper		-				
Government- standard postcards		-				
Envelope		-				
Label		-				
Letterhead		-				

(2) Sort/Group

Туре	Size	Weight		Max. Capacity	
	A6R to A3 5.5 to 11 x17	56 to 90g/m ² 15 to 24 lb	Exit Tray1	200 sheets	
Plain paper	Max. 297 mm x 431.8 mm 11.75 x 17 inch		Exit Tray2	A4R, 8.5 x 11R or less	1000 sheets
	Min. 182 mm x 139.7 mm 7.25 x 5.5 inch			B4, 8.5 x 14R Of greater	500 sheets

(3) Sort Staple

	Туре	Size	Weight		Max. Capacity	
		A6R to A3 5.5 to 11 x17	56 to 90g/m² 15 to 24 lb	Exit Tray1	200 sheets	3
	Plain paper	Max. 297 mm x 431.8 mm 11.75 x 17 inch		Exit Tray2	A4R, 8.5 x 11R or less	1000 sheets
		Min. 182 mm x 139.7 mm 7.25 x 5.5 inch			B4, 8.5 x 14R Or greater	500 sheets

(4) Punch

Туре	Size	Weight	Exit Tray
Plain paper	B5R/B5 to A3 8.5 to 11 x 17	60 to 90 g/m² 15 to 24 lb	Exit Tray1 Exit Tray2 OT-601 MT-501

D. Stapling

Staple Filling Mode	Dedicated Staple Cartridge (5000 staples)			
Staple Detection	Available (Nearly Empty: 20 remaining staples)			
	Front: Diagonal 45° 1 point *1	A4, A3R, B5, B4R		
	Rear: Diagonal 45° 1 point *1	8.5 x 11, 11 x 17		
	Front: Parallel 1 point	A4R, B5R, A5		
Stapling Position	Rear: Parallel 1 point	8.5 x 11R, 8.5 x 114R, 5.5 x 8.5		
	Side: Parallel 2 point	A4, A4R, A3R, B5, B5R, B4R, A5 8.5 x 11, 8.5 x 11R, 8.5 x 14R, 11 x 17, 5.5 x 8.5		
Manual Staple	None			

*1: Diagonal 30° for B5 and B4R

E. Hole Punch

No. of Holes	Metric: 4holes, Inch: 2holes / 3holes
Punch dust full detection	Available

F. Machine specifications

Power Requirements	DC 24 V (supplied from the main unit)
	DC 5.1 V (generated by Finisher)
Max. Power Consumption	63 W
Dimensions	319 mm (W) x 558 mm (D) x 573 mm (H) 12.5 inch (W) x 22 inch (D) x 22.5 inch (H)
Weight	21.4 kg (47.25 lb)

G. Operating environment

• Conforms to the operating environment of the main unit.

1.2 PU-501

А. Туре

Name	Punch Unit PU-501
Installation	Built into the Finisher
Paper Size	B5R/B5 to A3 8.5 x 11R, 8.5 x 11, 8.5 x 14R, 11 x 17
Paper Type	Plain Paper (60 to 163 g/m ² , 16 to 43.5 lb)
Punch Hole	Metric: 4hole, Inch: 2,3hole
Number of Stored Punch Wastes	Metric (4hole): For 1,500 sheets of paper (80 g/m ²) Inch (2,3hole): For 1,000 sheets of paper (75 g/m ²)
Document Alignment	Center

B. Machine specifications

Power Requirements	Supplied by the Finisher	
Dimensions	114 mm (W) x 461 mm (D) x 136 mm (H) 4.5 inch (W) x 18.25 inch (D) x 5.25 inch (H)	
Weight	Approx. 1.9 kg (4.25 lbs) or less	

C. Operating environment

Conforms to the operating environment of the main unit.

1.3 OT-601

А. Туре

Name	Output Tray OT-601	
Installation	Fixed to the Finisher	
Mode	Non sort, sort, group, and sort stable	
Number of Bins	1 bin	
Document Alignment	Center	

B. Paper Type

Mode	Size	Туре		Capacity
Non sort	A6R to A3 5.5 to 11 x17 Max. 297 mm x 431.8 mm 11.75 x 17 inch Min. 100 mm x 139.7 mm 4 x 5.5 inch	Plain Paper (56 to 90 g/m²,15 to 24 lb)		200 sheets (up to a height of 24 mm)
			OHP transparen- cies	20 sheets (up to a height of 24 mm
		Special	Thick paper (91 to 210g/m ² , 24.25 to 55.75 lb)	
			Envelope	
			Label	
			Letterhead	
			Translucent paper	
			Governmentstan- dard postcards	
sort / group	A6R to A3 5.5 to 11 x17	Plain Paper (56 to 90 g/m² ,15 to 24 lb)		200 sheets (up to a height of 24 mm)
sort stable	Max. 297 mm x 431.8 mm 11.75 x 17 inch Min. 182 mm x 139.7 mm 7.25 x 5.5 inch			200 sheets or 20 copies (up to a height of 24 mm)

C. Machine specifications

Dimensions	282 mm (W) x 368 mm (D) x 57 mm (H) 11 inch (W) x 14.5 inch (D) x 2.25 inch (H)
Weight	0.7 kg (1.5 lb)

D. Operating environment

• Conforms to the operating environment of the main unit.

NOTE

How product names appear in the document

- FS-508: Finisher
- PU-501: Punch Unit
- OT-601: Output Tray

NOTE

• These specifications are subject to change without notice.

Maintenance

2. Periodical check

2.1 Maintenance procedure (Periodical check parts)

NOTE

• The alcohol described in the cleaning procedure of Maintenance represents the isopropyl alcohol.

2.1.1 Cleaning of the Roller and Roll

- 1. Remove the Sorted Copy Tray.
- æ 15
- 2. Remove the Horizontal Transport Unit.
- æ 15
- 3. Remove the Horizontal Transport Top Cover.
- e 12







4. Using a soft cloth dampened with alcohol, wipe the roller and roll [1].

- 5. Lower Processing Guide FN1 [2].
- 6. Using a soft cloth dampened with alcohol, wipe the roll [3].

 Remove Punch Waste Storage Box FN3.1 [4]. (only when PU-501 is installed)







- 8. Lower Processing Guide FN-3 [5].
- 9. Using a soft cloth dampened with alcohol, wipe the roll [6].

- 10. Lower Processing Guide FN-4 [7].
- 11. Using a soft cloth dampened with alcohol, wipe the roll [8].

12. While turning Processing Knob FN-5[9], wipe the roll [10] using a soft cloth dampened with alcohol.

13. Using a soft cloth dampened with alcohol, wipe the roller [11].

3. Firmware upgrade

3.1 Preparations for Firmware rewriting

3.1.1 Service environment

- Drive which enables writing/reading of Compact flash
- Compact flash (with 32 MB or more)

3.1.2 Writing into the Compact flash

· Copy the firmware files using the computer.

NOTE

- Copy only those files to be upgraded to the compact flash.
- If wrong firmware is copied, no screen display is given and thus no firmware can be downloaded.

3.1.3 Checking ROM version

Before attempting to upgrade the firmware, check the current ROM version.
See the Adjustment/Setting of the main unit service manual.

3.2 Firmware rewriting

3.2.1 Finisher

NOTE

- NEVER remove or insert the Compact Flash card with the machine power turned ON.
- Make sure that the MSC firmware has not been copied to the compact flash card.
- The engine firmware and Finisher firmware can be upgraded at the same time.
- See the Maintenance of the main unit service manual.
- If the files copied to the compact flash card are those of either the engine or Finisher, or wrong, no screen display is given and thus no firmware can be downloaded.





- 1. Turn OFF the main power switch.
- Remove the Compact flash Cover [1].

 Insert the compact flash card [2], to which the finisher upgrading files have been copied, into the slot. Maintenance

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- 4. Open the Right Door.
- NOTE
- Be sure to open the Right Door before turning ON the main power switch.
- 5. Turn ON the main power switch.
- 6. Display the Tech. Rep. Mode screen.
- For details of how to display the Tech. Rep. Mode screen, see the Adjustment/Setting of the main unit service manual.
- 7. Touch [Function].
- 8. Touch [FW Download].

- 9. Select [Finisher] and touch [Enter]. **NOTE**
- Touch [Engine] also if the Engine firmware is to be upgraded at the same time.
- 10. Select [Yes] and touch [Enter].

11. The firmware upgrading sequence will start.

NOTE

- The firmware upgrading sequence will last for 5 to 6 min. During this period, NEVER turn off the machine power.
- If the Engine firmware is also upgraded, the entire sequence will take about 10 to 11 min.





- 14. Display the Tech. Rep. Mode screen.
- For details of how to display the Tech. Rep. Mode screen, see the Adjustment/Setting of the main unit service manual.
- 15. Touch [ROM Version].
- 16. Make sure if the version of Firmware is updated.

 When the upgrading sequence is completed, turn OFF the main power switch.

13. Remove the compact flash card [2] from the slot. After some while thereafter, turn ON the main power switch.

4. Other

4.1 Disassembly/Adjustment prohibited items

- A. Screws to which blue paint or green paint is applied
- Blue paint or green paint is applied to some screws to prevent them from coming loose.
- As a general rule, screws to which blue paint or green paint is applied should not be removed or loosened.
- B. Red-painted screws
- Do not remove or loosen any of the red-painted screws in the field. It should also be noted that, when two or more screws are used for a single part, only one representative screw may be marked with the red paint.
- C. Variable Resistors on Board

NOTE

- Do not turn the variable resistors on boards for which no adjusting instructions are given in Adjustment/Setting.
- D. Removal of PWBs

A Caution

- When removing a circuit board or other electrical component, refer to "SAFETY AND IMPORTANT WARNING ITEMS" and follow the corresponding removal procedures.
- The removal procedures given in the following omit the removal of connectors and screws securing the circuit board support or circuit board.
- When it is absolutely necessary to touch the ICs and other electrical components on the board, be sure to ground your body.

			1
No.	Section	Part name	Ref.Page
1	Exterior parts	Horizontal Transport Upper Front Cover	e 12
2		Horizontal Transport Upper Cover	e 12
3		Horizontal Transport Front Right Cover	<i>⊴</i> ≈ 12
4		Front Door	e 13
5		Horizontal Transport Lower Front Cover	<i></i> 12
6		Horizontal Transport Left Front Cover	e 13
7		Paper Exit Front Cover	e 13
8		2nd Drawer	<i></i> 14
9		Output Tray OT-601 (Option)	<i></i> 14
10		1st Drawer	e 14
11		Connector Cover	e 13
12		Paper Exit Rear Cover	e 13
13	3 4 5 6	Sorted Copy Tray	e 15
14		Horizontal Transport Unit	e 15
15		Stapler Unit	<i></i> 16
16		Punch Unit PU-501 (Option)	<i></i> 17
17	Othors	Storage Paddle Drive Clutch	<i></i> 18
18	Ouldis	Exit Paddle Drive Clutch	æ 19

4.2.1 Disassembly/Assembly parts list

4.3 Disassembly/Assembly procedure

4.3.1 Horizontal Transport Upper Front Cover/Horizontal Transport Front Right Cover/Horizontal Transport Lower Front Cover







4.3.2 Horizontal Transport Upper Cover



- 1. Open the Front Door.
- Unhook the tab, and remove the Horizontal Transport Upper Front Cover [1].
- 3. Remove two screws [2], and remove the Horizontal Transport Front Right Cover [3].

4. Remove two screws [4], and remove the Horizontal Transport Lower Front Cover [5].

NOTE

- At reinstallation, first fit the tab [6] into position.
- 1. Remove four screws [1], and remove the Horizontal Transport Upper Cover [2].

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4.3.3 Front Door





- 1. Open the Front Door.
- 2. Remove the screw [1], and remove the stopper.
- 3. Remove two screws [2], and remove the dummy cover.
- 4. Close the Front Door.
- 5. Remove the clip [3], and remove the Front Door [4].

4.3.4 Horizontal Transport Left Front Cover



 Remove three screws [1], and remove the Horizontal Transport Left Front Cover [2].

4.3.5 Paper Exit Front Cover/Paper Exit Rear Cover/Connector Cover



- 1. Remove two screws [1], and remove the Paper Exit Front Cover [2].
- Loosen the screw [3], remove two screws [4], and remove the Paper Exit Rear Cover [5].
- 3. Remove the screw [6], and remove the Connector Cover [7].

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4.3.6 2nd Drawer



4.3.7 Output Tray (OT-601)



4.3.8 1st Drawer



1. Remove two screws [1], and remove the 2nd Drawer [2].

1. Remove two screws [1], and remove the Exit Tray [2].

1. Remove two screws [1], and remove the 1st Drawer [2].

4.3.9 Sorted Copy Tray

NOTE

- When removing the Sorted Copy Tray, set the Sorted Copy Tray to its home position.
- If the Exit Tray (OT-601) is installed, remove it in advance.







4.3.10 Horizontal Transport Unit



- 1. Open the Front Door.
- 2. Remove the screw [1], and remove the Front Door Stopper [2].
- 3. Remove the Horizontal Transport Left Front Cover.

@ 13

- 4. Disconnect three connectors [3].
- 5. Remove two screws [4], and remove the ground wire.

 Remove six screws [5], and lift the Sorted Copy Tray [6] upward and off the copier.

- 1. Remove the Sorted Copy Tray.
- 🖙 15
- 2. Remove the Front Right Door.
- e 13
- While holding down the lock release button [1], remove the Horizontal Transport Unit [2].

4.3.11 Stapler Unit









- 1. Open the Front Door.
- 2. Turn the dial [1], and move the stapler forward.
- 3. Remove the Staple Cartridge.
- 4. Remove the screw [2], and remove the cover [3].
- 5. Disconnect two connectors [4].

6. Remove two screws [5], and remove the Stapler Unit Assy [6].

7. Remove two screws [7] and remove the Stapler Unit [8].

4.3.12 Punch Unit (PU-501)









1. Remove the Sorted Copy Tray.

e 15

2. Remove the Horizontal Transport Unit.

e 15

- 3. Remove the Horizontal Transport Upper Cover.
- e 12
- 4. Remove two screws [1], and remove the Reinforcement Bracket [2].
- 5. Disconnect two connectors [3].

6. Remove two screws [6], and remove the Punch Kit [7].

7. Remove eight screws [8], and the Punch Unit [9].

4.3.13 Storage Paddle Drive Clutch





A. Removal Procedure

- 1. Remove the Sorted Copy Tray.
- æ 15
- 2. Remove the Horizontal Transport Unit.
- *s* 15
- 3. Remove the Horizontal Transport Upper Cover.
- 🕗 12
- 4. Remove the C-ring [1].
- Loosen two hexagonal socket head screws [2], and remove the Storage Paddle Drive Clutch Assy [3].

B. Reinstallation Procedure

- 1. Check that the 2-mm hole [2] of the storage paddle drive shaft [1] and the cutout of the frame [3] are aligned and install the Storage Paddle Drive Clutch Assy [4].
- 2. Refer to the figure below and check the paddle position [5].



- Hook the Solenoid Flapper [7] to the tab [6] of the Storage Paddle Drive Clutch Assy [4].
- 4. Attach the C-ring and reinstall the Storage Paddle Drive Clutch Assy.
- 5. Adjust the spacing between the C-ring and the Storage Paddle Drive Clutch Assy to 0.2 mm and tighten two hexagonal socket head screws.

4.3.14 Exit Paddle Drive Clutch







- A. Removal Procedure
- 1. Remove the Sorted Copy Tray.
- e 15
- 2. Remove the Horizontal Transport Unit.
- e 15
- 3. Remove the Horizontal Transport Upper Cover.
- e 12
- 4. Remove the C-ring [1].
- 5. Remove the gear [2].
- Loosen two hexagonal socket head screws [3], and remove the Exit Paddle Drive Clutch Assy [4].

B. Reinstallation Procedure

1. Reinstall the Exit Paddle Drive Clutch Assy [1].
Precaution for Exit Paddle Drive Clutch Reinstallation





[3] [3] [4] [4] [4] 2. Install the gear [2].

 Hook the Solenoid Flapper [4] to the tab [3] of the Exit Paddle Drive Clutch Assy.

NOTE

 Install the Exit Paddle Drive Clutch Assy with the side having a wider spacing between the tabs facing upward.



- Attach the C-ring and press the Exit Paddle Drive Clutch Assy [6] to the bushing [5].
- Adjust the spacing between the bushing [5] and the Exit Paddle Drive Clutch Assy [6] to 0.2 mm and tighten two hexagonal socket head screws.

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Adjustment / Setting

Adjustment/Setting

5. How to use the adjustment section

- "Adjustment/Setting" contains detailed information on the adjustment items and procedures for this machine.
- Throughout this "Adjustment/Setting," the default settings are indicated by " ".

Advance Checks

Before attempting to solve the customer problem, the following advance checks must be made. Check to see if:

- The power supply voltage meets the specifications.
- The power supply is properly grounded.
- The machine shares the power supply with any other machine that draws large current intermittently (e.g., elevator and air conditioner that generate electric noise).
- The installation site is environmentally appropriate: high temperature, high humidity, direct sunlight, ventilation, etc.; levelness of the installation site.
- The original has a problem that may cause a defective image.
- The density is properly selected.
- The Original Glass, slit glass, or related part is dirty.
- Correct paper is being used for printing.
- The units, parts, and supplies used for printing (developer, PC Drum, etc.) are properly replenished and replaced when they reach the end of their useful service life.
- Toner is not running out.

- To unplug the power cord of the machine before starting the service job procedures.
- If it is unavoidably necessary to service the machine with its power turned ON, use utmost care not to be caught in the Scanner Cables or gears of the Exposure Unit.
- Special care should be used when handling the Fusing Unit which can be extremely hot.
- The Developing Unit has a strong magnetic field. Keep watches and measuring instruments away from it.
- Take care not to damage the PC Drum with a tool or similar device.
- Do not touch IC pins with bare hands.

6. I/O Check

6.1 Check procedure

• To allow sensors to be checked for operation easily and safely, data applied to the IC on the board can be checked on the panel with the main unit in the standby state (including a misfeed, malfunction, and closure failure condition).

<Procedure>

- 1. Display the Tech. Rep. Mode screen.
- For details of how to display the Tech. Rep. Mode screen, see the Adjustment/Setting of the main unit service manual.
- 2. Touch [I/O Check].
- 3. Touch [Finisher].

6.2 I/O check list

6.2.1 I/O check screen

 This is only typical screen which may be different from what are shown on each individual main unit.

Finisher	Fwd END		Finisher Bac	ck	Fwd	END	
Paper Path Sensor	Lower (Elev.)	0	Finisher Tray	1	Staple H	one	0
Paper Passage (MOd	ldSurface(Elev.)	0	Align Home 1	0	Punch		
Paper Passage (F0e	dOptional Tray		Align Home 2	0	Punch Pos	s. 1	0
Tray	(Elevate)	0	Home(Shutter)	0	Punch Pos	в. 2	0
Elevate Tray	Elevate Tray position	0	Paddle Home (Exit)	0	Punch Sci Full Det	raps ect	0
Upper/Lowered 0			Exit R Home	0	Home (Paper He	old R)	0
Shutter Status 0			Empty(Finisher)	0 (Middle G	uide	0
Front Door Set 0			Staple				
Punch Pulse 0			Staple Home(CD)	0 (
			Self Priming	0			
			Staple Empty	0			
Finisher Back	Fwd END		Finisher Bac	ck	1	END	_
Finisher Back	Fwd END		Finisher Bac	ck]	END	
Finisher Back	Fwd END		Finisher Bac	ck	3rd Mail	END	
Finisher Back Saddle Exit(Saddle) 0	Fwd END	0	Finisher Bac Mail Bins	ck	3rd Mail Empty	END	
Finisher Back Saddle Exit(Saddle) 0 Saddle Emoty 0	Fwd END Layable Guide Home(Saddle)	0	Finisher Bac Mail Bins Paper Passage 1 (Mail Bins) Paper Passage 2	ck 1 0 2 0	3rd Mail Empty 2rd Mail	END Bin Bin	
Finisher Back Saddle Exit(Saddle) 0 Saddle Empty 0 Saddle Reset 0	Fwd END	0	Finisher Bac Mail Bins Paper Passage 1 (Mail Bins) Paper Passage 2 (Mail Bins) Mail Bin Door	ck 1 0 2 0	3rd Mail Empty 3rd Mail Full 4th Mail	END Bin Bin Bin	0
Finisher Back Saddle Exit(Saddle) 0 Saddle Empty 0 Saddle Reset 0 Stagdre Home 1 0	Fwd END Layable Guide Home(Saddle)	0	Finisher Bac Mail Bins Paper Passage 1 (Mail Bins) Paper Passage 2 (Mail Bin Door 1st Mail Bin	ck 1 0 2 0 0	3rd Mail Empty 3rd Mail Full 4th Mail Empty	END Bin Bin Bin	0 0 0
Finisher Back Saddle Exit(Saddle) 0 Saddle Empty 0 Saddle Reset 0 Staple Home 1 0 Saddle Priming 1 0	Fwd END Layable Guide Home(Saddle)	0	Finisher Bac Mail Bins Paper Passage 1 Mail Bins Mail Bin Door 1st Mail Bin Empty	ck 1 0 2 0 0	3rd Mail Empty 3rd Mail 4rd Mail 4th Mail Empty 4th Mail	END Bin Bin Bin Bin	00000
Finisher Back Saddle Exit(Saddle) 0 Saddle Empty 0 Saddle Reset 0 Saddle Reset 0 Saddle 10 Saddle 10 Saddl	Fwd END Layable Guide Home(Saddle)	0	Finisher Bac Mail Bins Paper Bins Paper Passage 1 (Mail Bins Mail Bin Door 1st Mail Bin Empty fst Mail Bin	ck 1 0 2 0 0 0	3rd Mail Empty 3rd Mail 4th Mail Empty 4th Mail Full	END Bin Bin Bin Bin	0 0 0 0
Finisher Back Saddle Exit(Saddle) 0 Saddle Empty 0 Saddle Reset 0 Staple Home 1 0 Staple Home 1 0 Staple Jeming 1 0 Staple Empty 1 0 Staple Home 2 0	Fwd END Lavable Guide Home(Saddle)	0	Finisher Bac Mail Bins Paper Bassage 1 (Mail Bins Phoil Bins Mail Bin Door 1st Mail Bin Empty 1st Mail Bin Full 2nd Mail Bin	ck 2 0 0 0	3rd Mail Empty 3rd Mail 4th Mail Empty 4th Mail Full Ath Mail	END Bin Bin Bin Bin	0 0 0
Finisher Back Saddle Exit (Saddle) 0 Saddle Empty 0 Saddle Reset 0 Staple Home 1 0 Staple Home 1 0 Staple Empty 1 0 Staple Empty 1 0 Staple Home 2 0 Staple Home 2 0 Staple Home 2 0	Fwd END Lavable Guide Home(Saddle)	0	Finisher Bac Mail Bins Paper Passage 1 (Mail Bins Paper Passage 2 Mail Bin Door 1st Mail Bin Empty 1st Mail Bin Full Mail Bin Enpty 2nd Mail Bin Empty	ck 2 0 0 0	3rd Mail Empty Prd1 Mail 4th Mail Empty 4th Mail	END Bin Bin Bin	0 0 0
Finisher Back Saddle Exit(Saddle) 0 Saddle Empty 0 Saddle Reset 0 (Saddle) 0 Self Priming 1 (Saddle) 0 Staple Home 1 (Saddle) 0 Staple Home 2 (Saddle) 2 (Saddle) 2 (Saddle) 2 Staple Home 2	Fwd END Layable Guide Home(Saddle)	0	Finisher Bac Mail Bins Paper Passage 1 (Mail Bins) Mail Bin Door 1st Mail Bin Empty 1st Mail Bin Full 2nd Mail Bin Empty 2nd Mail Bin	ck 2 0 0 0 0 0	3rd Mail Empty 3rd Mail Full 4th Mail Empty 4th Mail	END Bin Bin Bin Bin	0 0 0

Adjustment / Setting

6.2.2 I/O check list

A. Finisher (FS-508/PU-501)

Symbol	Symbol Panel display		Part/Signal name	Operation characteristics/ Panel display	
				1	0
PC5-FN		Paper Passage (Middle)	Transport Sensor	Paper present	Paper not present
PC4-FN		Paper Passage (Feed in)	Entrance Sensor	Paper present	Paper not present
PC3-FN		Elevate Tray Upper/ Lowered	Elevator Tray Home Position Sensor	Raised Position	Not raised
S2-FN		Shutter Status	Shutter Detection Switch	Closed	Open
S1-FN		Front Door Set	Front Cover Detection Switch	Closed	Open
PC2-PK		Punch Pulse	Punch Motor Pulse Sensor	Blocked	Unblocked
PC14-FN		Lower (Elev.)	Elevator Tray Lower Limit Sensor	Blocked	Unblocked
PC15-FN		Surface (Elev.)	Top Face Detection Sensor	Blocked	Unblocked
-		Optional Tray (Elevate)	Short Connector	Set	Not set
PC3-FN		Elevate Tray Position	Elevator Tray Home Position Sensor	Blocked	Unblocked
PC6-FN		Align Home 1	Alignment Home Position Sensor 1	At home	Not at home
PC7-FN	her	Align Home 2	Alignment Home Position Sensor 2	At home	Not at home
PC16-FN	inis	Home (Shutter)	Shutter Home Position Sensor	At home	Not at home
PC11-FN		Paddle Home (Exit)	Exit Paddle Home Position Sensor	At home	Not at home
PC12-FN		Exit R Home	Exit Roller Home Position Sensor	At home	Not at home
PC8-FN		Empty (Finisher)	Storage Tray Detecting Sensor	Paper present	Paper not present
PC10-FN		Staple Home (CD)	Staple Home Position Sensor	Blocked	Unblocked
-		Self Priming	Self-Priming Sensor	Blocked	Unblocked
-		Staple Empty	Staple Empty Detection Sensor	Blocked	Unblocked
-		Staple Home	Staple Home Position Sensor	Blocked	Unblocked
PC3-PK		Punch Pos. 1	Punch Positioning Sensor 1	Unblocked	Blocked
PC4-PK		Punch Pos. 2	Punch Positioning Sensor 2	Unblocked	Blocked
PC1-PK		Punch Scraps Full Detect	Punch Trash Full	Blocked	Unblocked
PC22-SK		Home (Paper Hold R)	Crease Roller Home Position Sensor	Blocked	Unblocked
S4-FN	1	Middle Guide	Transport Jam Detection Switch	Closed	Open

7. Test Mode

7.1 Entering Function Mode

- 1. Display the Tech. Rep. Mode screen.
- For details of how to display the Tech. Rep. Mode screen, see the Adjustment/Setting of the main unit service manual.

Tech. Rep. Mode	Exit
Tech. Rep. Choice	System Input
Administrator #	Counter
Function	1/0 Check
Operation Check	CS Remote Care
ROM Version	Level History
FAX Set	Soft Switch
	4349F2E541DA
L	
—	
Function	END
F1	F2
E7-1	E7-2
	E10
	F12
Hard Disk Fornat	FD
FC	Detect Adjust
FW Download	
	4349F2E542DA
FC	END
1 2	3
4 5	
7 8	9
10 11	12

13

14

4349F3E520DA

2. Touch [Function].

3. Touch [FC].

4. Touch the button for the desired function.

7.2 Function Modes

1: Staple unit CD movement mode

- Returns the Staple Unit to the predetermined position after it moves to the 2-point stapling position for A4.
 - \rightarrow Moves from the predetermined position to the inner 2-point stapling position for A4.
 - \rightarrow Moves from the starting position and stops after the predetermined time.
 - \rightarrow Moves to the front of A4.
 - \rightarrow Moves from the starting position and stops after the predetermined time.
 - \rightarrow Moves to the predetermined position.
 - \rightarrow The operation is finished.

2: Aligning movement mode

- Aligning Plates 1 and 2 return to the predetermined position after moving to the aligning position for A4R.
 - \rightarrow Moves from the predetermined position to the second predetermined position for A4R.
 - \rightarrow Stops after the predetermined time.
 - \rightarrow Moves to the aligning position for A4R.
 - \rightarrow Stops after the predetermined time.
 - \rightarrow Moves to the predetermined position.
 - \rightarrow The operation is finished.

3: Elevator Tray ascent operation mode

- The Elevator Tray is raised to mailbin 1. (Mailbin 1 \rightarrow Additional Mailbin \rightarrow Mailbin 2)
 - \rightarrow The Exit opens.
 - \rightarrow The Shutter closes.
 - \rightarrow The Paper Output Tray is raised to mailbin 1.
 - \rightarrow The Shutter opens.
 - \rightarrow The Exit closes.
 - \rightarrow The operation is finished.

4: Elevator Tray descent operation mode

- The Elevator Tray is lowered from mailbin 1. (Mailbin 2 \rightarrow Additional Mailbin \rightarrow Mailbin 1)
 - \rightarrow The Exit opens.
 - \rightarrow The Shutter closes.
 - \rightarrow The Paper Output Tray is lowered from mailbin 1.
 - \rightarrow The Shutter opens.
 - \rightarrow The Exit closes.
 - \rightarrow The operation is finished.

5: Punch Unit movement mode (appears only when the Punch Kit PU-501 is installed)

- The punch is driven once at a standard hole.
 - \rightarrow The operation is finished.

7: Exit open/close mode

- Opens and closes the Exit.
 - \rightarrow The Exit opens.
 - \rightarrow Stops after the predetermined time.
 - \rightarrow The Exit closes.
 - \rightarrow The operation is finished.

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8: Creasing Unit movement mode (appears only when the Saddle Kit SD-502 is installed)

For details, see SD-502 Service Manual.

9: Saddle Unit exit open/close mode (appears only when the Saddle Kit SD-502 is installed)

For details, see SD-502 Service Manual.

10: Transport drive mode

- Transport drive is performed for the predetermined time. (Performs the same transport drive as the pre-drive with the high speed of the connected copier.)
 - \rightarrow Drives the Entrance Motor (M3-FN).
 - \rightarrow Drives the Transport Motor (M2-FN).
 - \rightarrow Drives the Exit Motor (M1-FN).
 - \rightarrow The operation is finished.
- If the Mail Bin Kit MT-501 is installed, the Mailbins are also driven.
- If the Saddle Kit SD-502 is also installed, the Saddle Transport Motor (M8-SK) is also driven.

11: Shutter drive mode

- Opens and closes the Shutter.
 - \rightarrow The Exit opens.
 - \rightarrow The Shutter closes.
 - \rightarrow Stops after the predetermined time.
 - \rightarrow The Shutter opens.
 - \rightarrow The Exit closes.
 - \rightarrow The operation is finished.

12: Mailbin Solenoid movement mode (appears only when the Mail Bin Kit MT-501 is installed)

For details, see MT-501 Service Manual.

13: Storage Paddle operation mode

- Performs the single rotate operation for the Storage Paddle.
 The exerction is finished
 - \rightarrow The operation is finished.

14: Exit Paddle movement mode

Performs the single rotate operation for the Storage Paddle.
 → The operation is finished.

8. Mechanical adjustment

8.1 Staple Position Adjustment

NOTE

Make this adjustment after any of the following procedures has been performed.

- When the Stapler has been replaced.
- When staple position is misaligned.



- 1. Set the staple mode and make a copy.
- 2. Check the staple position of the paper.
- 1-Point Tilted Staple (Paper Width: 216 to 297 mm) 279 to 297 mm: 45° tilt, B5, B4R: 30° tilt

Measurement position	Specification	Adjustment range
A, C	4.4 mm	—
B, D	12.1 mm	+1 mm to -2mm

1-Point Parallel Staple
 (Paper Width: 182 to 216 mm)

Measurement position	Specification	Adjustment range
A	4.5 mm	—
В	6 mm	+1 mm to -2mm

• 2-Point Staple

Measurement position	Specification	Adjustment range
C, F	6 mm	+1 mm to -2mm
D	Y	—
E	Х	—

Y = (paper width-X-11) / 2

X = A3R, A4: 137

B4R, B5: 114

A4R: 190

B5R: 162

Substitute above into the equation.

3. If the staple position is misaligned, adjust with the following procedure.





- 4. Open the Front Door.
- 5. Turn the dial [1], and move the stapler forward.
- 6. Loosen the screw [2], and remove the cover [3].
- Loosen two adjustment screws [2] and move the Stapler Unit [3] in the direction of the arrow to make the adjustment.
- 8. Make another copy and check the staple position.

8.2 Adjustment of the Installation Position of the Shutter Drive Gear

NOTE

Make this adjustment after any of the following procedures has been performed.

- When any of gear 1, 2, or 3 has been replaced.
- When gears 1, 2, and 3 has been disassembled.



1. Set three gears. **NOTE**

• Set the gears so that the marks on Gears 1 and 3 [1] are aligned with the rib of Gear 2 [2] as shown on the right.

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8.3 Punch Hole Deviance Adjustment (PU-501)

NOTE

Make this adjustment after any of the following procedures has been performed.

- When the Punch Kit has been replaced.
- When the Punch Kit has been removed.





- Set the copier into the Hole Punch mode and make a 1-sided copy from a 1-sided original.
- Fold the output paper in half and check whether the punch hole positions are aligned. Specification: 0±2 mm
- 3. If the punch hole position is misaligned, adjust with the following procedure.
- 4. Remove the Horizontal Transport Lower Front Cover.
- e 12
- Loosen the adjustment screw [1], and move the Punch Unit [2] forward or backward to make the adjustment.
- 6. Make another copy and check the punch hole position.

8.4 Punch Hold Position Adjustment (PU-501)









- Set the copier into the Hole Punch mode and make a 1-sided copy from a 1-sided original.
- 2. Check width A on the output paper.
- 3. Display the Tech. Rep. Mode screen.
- For details of how to display the Tech. Rep. Mode screen, see the Adjustment/Setting of the main unit service manual.
- 4. Touch [Tech. Rep. Choice].
- 5. Touch [Finisher].
- 6. Touch [Punch Stop Position].

- 7. Press the Clear key and use the 10-Key Pad to set the value.
- To make width A wider, enter a positive value.
- To make width A narrower, enter a negative value.

Adjustment range: +10 max. and -10 min.

1 increment: 0.5 mm

Use the * key to switch between + and -.

8.5 Punch Loop Length Adjustment (PU-501)

NOTE

This adjustment must be made in any of the following cases:

- When a slant occurs in the punch hole position.
- When misfeed frequently occurs in punch hole mode.

			-
	Tech. Rep. Choice	END	
	System Set	Printer	
		Shget-throuth-	
		The amount of	
		Center Erase	
		Change	
		Finisher	
	Trail Erase(Dup)	Internet ISW Setting	
		4349F3E521DA	
	Finisher		
	rinisher	LEND	
	Punch	Punch Loop	
	Stop Position	Adjustment	
		10.105055000	
		4349F3E522DA	
r			
	Punch Loop Adjustment	END	
	0 mn		
		Hou +4	
		Nin -4	
	L	4349F3E524DA	

- 1. Display the Tech. Rep. Mode screen.
- For details of how to display the Tech. Rep. Mode screen, see the Adjustment/Setting of the main unit service manual.
- 2. Touch [Tech. Rep. Choice].
- 3. Touch [Finisher].
- 4. Touch [Punch Loop Adjustment].

- Press the Clear key and use the 10-Key Pad to set the value.
- To make loop length larger, enter a positive value.
- To make loop length smaller, enter a positive value.

Adjustment range: +4 max. and -4 min. 1 increment: 1 mm

Use the * key to switch between + and -.

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Blank Page

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Troubleshooting

9. Jam Display

9.1 Misfeed Display

• When a paper misfeed occurs, the misfeed message, misfeed location, and paper location are displayed on the Touch Panel of the machine.



Display	Misfeed Location	Misfeed processing location	Action
	Transport Section Misfeed	Front Door	e 38
[1]	Finisher Staple Misfeed	Front Door	e 39
111	Finisher Punch Misfeed	Front Door	e 39
	Finisher Bundle Exit Misfeed	Front Door	<i>🖙</i> 40

9.1.1 Misfeed Display Resetting Procedure

• Open the corresponding door, clear the sheet of paper misfeed, and close the door.

9.2 Sensor layout



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9.3 Solution

9.3.1 Initial Check Items

• When a paper misfeed occurs, first make checks of the following initial check items

Check Item	Action
Does paper meet product specifications?	Change paper.
Is paper curled, wavy, or damp.	Change paper. Instruct user in correct paper storage.
Is a foreign object present along the paper path, or is the paper path deformed or worn?	Clean or change the paper path.
Are rolls/rollers dirty, deformed, or worn?	Clean or change the defective roll/roller.
Are the Edge Guide and Trailing Edge Stop at correct position to accommodate paper?	Set as necessary.
Are actuators found operational as checked for correct operation?	Correct or change the defective actuator.

9.3.2 Transport Section Misfeed

A. Detection Timing

Туре	Description
Finisher Transport Section	The Entrance Sensor (PC4-FN) is not blocked even after the set period of time has elapsed after the copier's Paper Exit Sensor (PC4) is blocked by the paper.
misfeed detection	The Entrance Sensor (PC4-FN) is not unblocked even after the set period of time has elapsed after the copier's Paper Exit Sensor (PC4) is unblocked by the paper.
Finisher Paper Exit	The Transport Sensor (PC5-FN) is not blocked even after the set period of time has elapsed after the Entrance Sensor (PC4-FN) is blocked by the paper.
Section misfeed detection	The Transport Sensor (PC5-FN) is not unblocked even after the set period of time has elapsed after the Entrance Sensor (PC4-FN) is unblocked by the paper.
Detection of paper	The Entrance Sensor (PC4-FN) is blocked when the Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.
Section	The Transport Sensor (PC5-FN) is blocked when the Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.

B. Action

Relevant Electrical Parts			
Paper Exit Sensor (PC4) Main Control Board (PWB-A FN)			
Entrance Sensor (PC4-FN)	Mechanical Control Board (PWB-A)		
Transport Sensor (PC5-FN)			

		WIRING DIAGRAM		
Step	Action	Control Signal	Location (Electrical Component)	
1	Initial check items	-	-	
2	PC4 I/O check	PWB-A PJ18A-11 (ON)	M-12	
3	PC4-FN I/O check	PWB-A FN PJ25A FN-4 (ON)	FS-508 G-4	
4	PC5-FN I/O check	PWB-A FN PJ20A FN-9 (ON)	FS-508 B-5	
5	Change PWB-A FN	-	-	
6	Change PWB-A	-	-	

9.3.3 Finisher Staple Misfeed

A. Detection Timing

Туре	Description
Finisher Staple misfeed detection	The Staple Home Position Sensor in the Staple Unit is not blocked even after the set period of time has elapsed after the Staple Motor rotates for- ward, and then the Staple Motor rotates backward, and the Staple Home Position Sensor in the Staple Unit is blocked within the set period of time.

B. Action

Relevant Electrical Parts	
Staple Unit	Main Control Board (PWB-A FN)

		WIRING DIAGRAM	
Step	Step Action	Control Signal	Location (Electrical Component)
1	Initial check items	-	-
2	Drive Coupling Section check	-	-
3	I/O Check	-	-
4	Change Staple Unit	-	-
5	Change PWB-A FN	-	-

9.3.4 Finisher Punch Misfeed (PU-501)

A. Detection Timing

Туре	Description
Finisher Punch misfeed	Punch Positioning Sensors 1 and 2 are not blocked even after the set
detection	period of time has elapsed after the Punch Motor is energized.

B. Action

Relevant Electrical Parts	
Punch Unit	Main Control Board (PWB-A FN)

	WIRING DIAGRAM		
Step	tep Action	Control Signal	Location (Electrical Component)
1	Initial check items	-	-
2	Drive Coupling Section check	-	-
3	I/O Check	-	-
4	Change Punch Unit	-	-
5	Change PWB-A FN	-	-

9.3.5 Finisher Bundle Exit Misfeed

A. Detection Timing

Туре	Description
Finisher Bundle Exit misfeed detection	The Storage Tray Detecting Sensor (PC8-FN) is not unblocked even after the set period of time has elapsed after the Exit Motor (M1-FN) is ener- gized.

B. Action

Relevant Electrical Parts		
Storage Tray Detecting Sensor (PC8-FN) Exit Motor (M1-FN)	Main Control Board (PWB-A FN)	

		WIRING DIAGRAM	
Step	Action	Control Signal	Location (Electrical Component)
1	Initial check items	-	-
2	PC8-FN I/O check	PWB-A FN PJ13A FN-8 (ON)	FS-508 G-8
3	Change PWB-A FN	-	-

10. Malfunction code

10.1 Trouble code

• The machine's CPU performs a self-diagnostics function that, on detecting a malfunction, gives the corresponding malfunction code and maintenance call mark on the Touch Panel.

Code	Description	Detection Timing
C1183	Elevator Motor Ascent/ Descent Drive Failure	 The Elevator Tray Lower Limit Sensor (PC14-FN) is not blocked even after the set period of time has elapsed after the Main Power Switch is set to ON. The Elevator Tray Home Position Sensor (PC3-FN) and Top Face Detection Sensor (PC15-FN) are not blocked even after the set period of time has elapsed after the Elevator Motor (M11-FN) is energized. The Elevator Tray does not stop at the position for the specified tray after the Elevator Motor (M11-FN) is energized (beginning of descent operation) and the Elevator Tray Lower Limit Sensor (PC14-FN) is blocked. The Top Face Detection Sensor (PC15-FN) is not blocked even after the set period of time has elapsed after the Elevator (M11-FN) is not blocked. The Top Face Detection Sensor (PC15-FN) is not blocked even after the set period of time has elapsed after the Elevator (M11-FN) is energized (beginning of ascent operation) when paper is being fed out. The Lock signal is detected after the set period of time has elapsed after the Elevator Motor (M11-FN) is energized.
C1190	Aligning Plate 1 Drive Failure	 The Alignment Home Position Sensor 1 (PC6-FN) is not blocked even after the set period of time has elapsed after the Main Power Switch is set to ON. The Alignment Home Position Sensor 1 (PC6-FN) is not unblocked even after the set period of time has elapsed after the Alignment Motor 1 (M4-FN) is energized.
C1191	Aligning Plate 2 Drive Failure	 The Alignment Home Position Sensor 2 (PC7-FN) is not blocked even after the set period of time has elapsed after the Main Power Switch is set to ON. The Alignment Home Position Sensor 2 (PC7-FN) is not unblocked even after the set period of time has elapsed after the Alignment Motor 2 (M5-FN) is energized.
C11A0	Paper Holding Drive Failure	 The Exit Paddle Home Position Sensor (PC11-FN) is not blocked even after the set period of time has elapsed after the Exit Paddle Solenoid (SL2-FN) is activated (beginning of pad- dle retraction operation). The Exit Paddle Home Position Sensor (PC11-FN) is not unblocked even after the set period of time has elapsed after the Exit Paddle Solenoid (SL2-FN) is activated (beginning of paddle paper-holding operation).
C11A1	Exit Roller Pressure/ Retraction Failure	 The Exit Roller Home Position Sensor (PC12-FN) is not blocked even after the set period of time has elapsed after the Exit Open/Close Motor (M6-FN) is energized (beginning of pressure operation). The Exit Roller Home Position Sensor (PC12-FN) is not unblocked even after the set period of time has elapsed after the Exit Open/Close Motor (M6-FN) is energized (beginning of retraction operation).

Code	Description	Detection Timing
C11A3	Shutter Drive Failure	 The Shutter Home Position Sensor (PC16-FN) is not unblocked even after the set period of time has elapsed after the Exit Open/Close Motor (M6-FN) is energized (beginning of shutter-opening operation). The Shutter Home Position Sensor (PC16-FN) is not blocked even after the set period of time has elapsed after the Exit Open/Close Motor (M6-FN) is energized (beginning of shut- ter-closing operation).
C11B0	Staple Unit CD Drive Failure	The Staple Home Position Sensor (PC10-FN) is not blocked even after the set period of time has elapsed after the Stapling Unit Moving Motor (M7-FN) is energized (beginning of return operation to predetermined position).
C11B2	Staple Drive Failure	The Home Position Sensor is not blocked even after the set period of time has elapsed after the Staple Motor is energized (beginning of staple operation).
C11C0	Punch Cam Motor Unit Failure	The Punch Motor Pulse Sensor cannot detect both edges of H/L even after the set period of time has elapsed while the Punch Drive Motor is energized.
CC155	Finishing Option Flash ROM Failure	• Data of flash ROM of the finishing options is determined to be faulty when the power is turned ON.

10.2 Solution

10.2.1 C1183: Elevator Motor Ascent/Descent Drive Failure

Relevant Electrical Parts		
Elevator Motor (M11-FN)	Top Face Detection Sensor (PC15-FN)	
Elevator Tray Home Position Sensor (PC3-FN)	Elevator Board (PWB-B FN)	
Elevator Tray Lower Limit Sensor (PC14-FN)	Main Control Board (PWB-A FN)	

		WIRING DIAGRAM	
Step	Action	Control Signal	Location (Electrical Component)
1	Check the M11-FN connector for proper connection and correct as necessary.	-	-
2	Check M11-FN for proper drive cou- pling and correct as necessary.	-	-
3	If OT-601 is connected, check the connector for proper connection, and correct as necessary.	-	-
4	Check the installation position of the OT-601 tray, and correct as necessary.	-	-
5	M11-FN operation check	PWB-A FN PJ7A FN-1 to 2	FS-508 G-7
6	PC3-FN I/O check	PWB-A FN PJ12A FN-2 (ON)	FS-508 G-4
7	PC14-FN I/O check	PWB-B FN PJ2B FN-3 (ON)	FS-508 H-6
8	PC15-FN I/O check	PWB-B FN PJ2B FN-6 (ON)	FS-508 H-6
9	Change PWB-B FN	-	-
10	Change PWB-A FN	-	-

10.2.2 C1190: Aligning Plate 1 Drive Failure

10.2.3 C1191: Aligning Plate 2 Drive Failure

Relevant Electrical Parts			
Alignment Motor 1 (M4-FN)	Main Control Board (PWB-A FN)		
Alignment Motor 2 (M5-FN)			
Alignment Home Position Sensor 1 (PC6-FN)			
Alignment Home Position Sensor 2 (PC7-FN)			

• C1190

Step	Action	WIRING DIAGRAM	
		Control Signal	Location (Electrical Component)
1	Check the M4-FN connector for proper connection and correct as necessary.	-	-
2	Check M4-FN for proper drive cou- pling and correct as necessary.	-	-
3	M4-FN operation check	PWB-A FN PJ14A FN-1 to 4	FS-508 G-7
4	PC6-FN I/O check	PWB-A FN PJ13A FN-3 (ON)	FS-508 G-8
5	Change PWB-A FN	-	-

• C1191

Step	Action	WIRING DIAGRAM	
		Control Signal	Location (Electrical Component)
1	Check the M5-FN connector for proper connection and correct as necessary.	-	-
2	Check M5-FN for proper drive cou- pling and correct as necessary.	-	-
3	M5-FN operation check	PWB-A FN PJ14A FN-5 to 8	FS-508 G-8
4	PC7-FN I/O check	PWB-A FN PJ13A FN-6 (ON)	FS-508 G-8
5	Change PWB-A FN	-	-

10.2.4 C11A0: Paper Holding Drive Failure

Relevant Electrical Parts		
Exit Paddle Solenoid (SL2-FN) Exit Paddle Home Position Sensor (PC11-FN)	Main Control Board (PWB-A FN)	

Step	Action	WIRING DIAGRAM		
		Control Signal	Location (Electrical Component)	
1	Check the SL2-FN connector for proper connection and correct as necessary.	-	-	
2	PC11-FN I/O check	PWB-A FN PJ17A FN-7 (ON)	FS-508 B-7	
3	SL2-FN operation check	PWB-A FN PJ18A FN-6 (REM)	FS-508 B-7	
4	Change PWB-A FN	-	-	

10.2.5 C11A1: Exit Roller Pressure/Retraction Failure

Relevant Electrical Parts		
Exit Open/Close Motor (M6-FN) Exit Roller Home Position Sensor (PC12-FN)	Main Control Board (PWB-A FN)	

Step	Action	WIRING DIAGRAM	
		Control Signal	Location (Electrical Component)
1	Check the M6-FN connector for proper connection and correct as necessary.	-	-
2	Check M6-FN for proper drive cou- pling and correct as necessary.	-	-
3	M6-FN operation check	PWB-A FN PJ20A FN-1 to 2	FS-508 B-6
4	PC12-FN I/O check	PWB-A FN PJ20A FN-7 (ON)	FS-508 B-5
5	Change PWB-A FN	-	-

10.2.6 C11A3: Shutter Drive Failure

Relevant Electrical Parts			
Exit Open/Close Motor (M6-FN)	Elevator Board (PWB-B FN)		
Shutter Home Position Sensor (PC16-FN)	Main Control Board (PWB-A FN)		

Step	Action	WIRING DIAGRAM	
		Control Signal	Location (Electrical Component)
1	Check the M6-FN connector for proper connection and correct as necessary.	-	-
2	Check M6-FN for proper drive cou- pling and correct as necessary.	-	-
3	M6-FN operation check	PWB-A FN PJ20A FN-1 to 2	FS-508 B-6
4	PC16-FN I/O check	PWB-B FN PJ2B FN-9 (ON)	FS-508 H-6
5	Change PWB-B FN	-	-
6	Change PWB-A FN	-	-

10.2.7 C11B0: Staple Drive Failure

Relevant Electrical Parts			
Stapling Unit Moving Motor (M7-FN) Staple Home Position Sensor (PC10-FN)	Main Control Board (PWB-A FN)		

	Action	WIRING DIAGRAM	
Step		Control Signal	Location (Electrical Component)
1	Check for interference with the Shut- ter and Exit Roller, and correct as necessary.	-	-
2	Check the M7-FN connector for proper connection and correct as necessary.	-	-
3	Check M7-FN for proper drive cou- pling and correct as necessary.	-	-
4	M7-FN operation check	PWB-A FN PJ15A FN-1 to 4	FS-508 G-9
5	PC10-FN I/O check	PWB-A FN PJ17A FN-3 (ON)	FS-508 B-7
6	Change PWB-A FN	-	-

10.2.8 C11B2: Staple Drive Failure

Relevant Electrical Parts		
Staple Unit	Main Control Board (PWB-A FN)	

		WIRING DIAC	GRAM
Step	Action	Control Signal	Location (Electrical Component)
1	Check the Staple unit connector for proper connection and correct as necessary.	-	-
2	Check the Staple Unit for proper drive coupling, and correct as nec- essary.	-	-
3	Staple Unit operation check	-	-
4	Change Staple Unit	-	-
5	Change PWB-A FN	-	-

10.2.9 C11C0: Punch Cam Motor Unit Failure

Relevant Electrical Parts		
Punch Unit	Main Control Board (PWB-A FN)	

		WIRING DIAGRAM	
Step	Action	Control Signal	Location (Electrical Component)
1	Check the Punch Unit connectors for proper connection, and correct as necessary.	-	-
2	Check the Punch Unit for proper drive coupling, and correct as necessary.	-	-
3	Punch Unit I/O check	-	-
4	Change Punch Unit	-	-
5	Change PWB-A FN	-	-

10.2.10 CC155: Finishing Option Flash ROM Failure

Relevant Electrical Parts

Main Control Board (PWB-A FN)

		WIRING DIAGRAM		
Step	Action	Control Signal	Location (Electrical Component)	
1	Disconnect and then connect the power cord. Turn OFF the Main Power Switch, wait for 10 sec. or more, and turn ON the Main Power Switch.	-	-	
2	Rewrite firmware using the Compact Flash card.	-	-	
3	Change PWB-A FN	-	-	

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SERVICE MANUAL

FIELD SERVICE

MT-501

2005.08 KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. Ver. 1.0

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General

1. Product specification

А. Туре

Name	Mail Bin Kit
Installation	Install at the top section of the Finisher Elevator Tray.
Number of Bins	4 bins
Number of Sheets Stored per Bin	125 sheets (80 g/m ²)
Storable Paper	Plain paper (56 to 90 g/m ²), recycled paper (60 to 90 g/m ²)
Storable Paper Size	A5, B5R, and A4R (5-1/2, 8.5 × 11)

B. Machine specifications

Power Requirements	DC 24 V (supplied from the Finisher) DC 5 V (generated inside the Mail Bin)
Dimensions	624 mm (W) × 503 mm (D) × 390 mm (H)
Weight	8 kg

C. Operating environment

• Conforms to the operating environment of the main unit.

NOTE

• These specifications are subject to change without notice.

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Periodical check

Maintenance procedure (Periodical check parts)

Maintenance

2.

2.1

NOTE

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The alcohol described in the cleaning procedure of Maintenance represents the isopropyl alcohol. 2.1.1 Cleaning of the Roller and Roll



- 1. Open the Right Door.
- 2. Using a soft cloth dampened with alcohol, wipe the roller and roll.
3. Other

3.1 Disassembly/Adjustment prohibited items

- A. Screws to which blue paint or green paint is applied
- Blue paint or green paint is applied to some screws to prevent them from coming loose.
- As a general rule, screws to which blue paint or green paint is applied should not be removed or loosened.
- B. Red-painted screws
- Do not remove or loosen any of the red-painted screws in the field. It should also be noted that, when two or more screws are used for a single part, only one representative screw may be marked with the red paint.
- C. Variable Resistors on Board

NOTE

• Do not turn the variable resistors on boards for which no adjusting instructions are given in Adjustment/Setting.

D. Removal of PWBs

NOTE

- When removing a circuit board or other electrical component, refer to "SAFETY AND IMPORTANT WARNING ITEMS" and follow the corresponding removal procedures.
- The removal procedures given in the following omit the removal of connectors and screws securing the circuit board support or circuit board.
- When it is absolutely necessary to touch the ICs and other electrical components on the board, be sure to ground your body.

3.2 Disassembly/Assembly list (Other parts)

No.	Section	Part name	Ref.	page
1		Rear Cover	æ 5	
2		Front Cover	æ 6	
3	Exterior parts	Upper Cover	æ 6	
4		Right Door	æ 5	
5		Paper Output Tray	æ 6	

3.3 Disassembly/Assembly procedure

3.3.1 Rear Cover/Right Door



- 1. Remove the screw [1] and remove the Rear Cover [2].
- 2. Remove the screw [3], the stopper [4], and remove the Right Door [5].

3.3.2 Front Cover/Upper Cover/Paper Output Tray



- 1. Remove the screw [1] and remove the Front Cover [2].
- 2. Remove the Rear Cover.

æ 5

- 3. Remove the Upper Cover [3].
- 4. Remove the Paper Output Trays [4].

Adjustment/Setting

4. How to use the adjustment section

- "Adjustment/Setting" contains detailed information on the adjustment items and procedures for this machine.
- · Throughout this "Adjustment/Setting," the default settings are indicated by " ".

Advance Checks

Before attempting to solve the customer problem, the following advance checks must be made. Check to see if:

- The power supply voltage meets the specifications.
- The power supply is properly grounded.
- The machine shares the power supply with any other machine that draws large current intermittently (e.g., elevator and air conditioner that generate electric noise).
- The installation site is environmentally appropriate: high temperature, high humidity, direct sunlight, ventilation, etc.; levelness of the installation site.
- The original has a problem that may cause a defective image.
- The density is properly selected.
- The Original Glass, slit glass, or related part is dirty.
- Correct paper is being used for printing.
- The units, parts, and supplies used for printing (developer, PC Drum, etc.) are properly replenished and replaced when they reach the end of their useful service life.
- Toner is not running out.

- To unplug the power cord of the machine before starting the service job procedures.
- If it is unavoidably necessary to service the machine with its power turned ON, use utmost care not to be caught in the Scanner Cables or gears of the Exposure Unit.
- Special care should be used when handling the Fusing Unit which can be extremely hot.
- The Developing Unit has a strong magnetic field. Keep watches and measuring instruments away from it.
- Take care not to damage the PC Drum with a tool or similar device.
- Do not touch IC pins with bare hands.

5. I/O check

5.1 Check procedure

• To allow sensors to be checked for operation easily and safely, data applied to the IC on the board can be checked on the panel with the main unit in the standby state (including a misfeed, malfunction, and closure failure condition).

<Procedure>

- 1. Display the Tech. Rep. Mode screen.
- For details of how to display the Service Mode screen, see the Adjustment/Setting of the main unit service manual.
- 2. Touch the [I/O Check] key.
- 3. Touch the [Finisher] key.
- 4. Touch [Fwd] three times.

5.2 I/O check list

5.2.1 I/O check screen

 This is only typical screen which may be different from what are shown on each individual main unit.

Mail Bins	- 1	3rd Mail	Bin		
Paper Passage 1 (Mail Bins)	0	Empty		0	
Paper Passage 2 (Mail Bins)	0	3rd Mail Full	Bin	0	
Mail Bin Door	0	4th Mail	Bin		
1st Mail Bin		Empty		0	
Empty	ol	4th Mail	Bin	0	
1st Mail Bin Full	0				
2nd Mail Bin					
Empty	0				
2nd Mail Bin	o				

5.2.2 I/O check list

Symbol		Panel display	Part/Signal name	Operation characteristics/ Panel display	
				1	0
PC10-MK		Paper Passage 1 (Mail Bins)	Lower Transport Sensor	Paper present	Paper not present
PC9-MK		Paper Passage 2 (Mail Bins)	Upper Transport Sensor	Paper present	Paper not present
PC11-MK		Mail Bin Door	Cover Open/Close Sensor	Open	Close
PC1-MK	-	1st Mail Bin Empty	Paper Detection Sensor 1	Paper not present	Paper present
PC5-MK		1st Mail bin Full	Paper Full Detection Sensor 1	Blocked	Unblocked
PC2-MK	Finisher	2nd Mail Bin Empty	Paper Detection Sensor 2	Paper not present	Paper present
PC6-MK		2nd Mail Bin Full	Paper Full Detection Sensor 2	Blocked	Unblocked
PC3-MK		3rd Mail Bin Empty	Paper Detection Sensor 3	Paper not present	Paper present
PC7-MK		3rd Mail Bin Full	Paper Full Detection Sensor 3	Blocked	Unblocked
PC4-MK		4th Mail Bin Empty	Paper Detection Sensor 4	Paper not present	Paper present
PC8-MK]	4th Mail Bin Full	Paper Full Detection Sensor 4	Blocked	Unblocked

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6. Test Mode Operations

6.1 Entering Function Mode

- 1. Display the Tech. Rep. Mode screen.
- For details of how to display the Service Mode screen, see the Adjustment/Setting of the main unit service manual.
- Tech. Rep. Hode Exit Tech. Rep. Choice System Input Administrator # Counter Function 1/0 Check Operation Check CS Remote Care RON Version Level History Seft Switch FAX Set 4510F3C504DA Function END F1 F2 F7-1 F7-2 F8 F12 Hard Disk Fornat FD Org. Width Detect Adjus FC FH Download 4510F3C505DA FC OK . 2 3 5 4 8 9
- 2. Touch [Function].

3. Touch [FC].

4. Touch [12].

6.2 Function Modes

10

13

11

14

12

4349F3J503DA

12: Mailbin solenoid drive mode

- Bin Entrance Switching Solenoids 1, 2 and 3 switch, in order, at the predetermined times.
 - \rightarrow Bin Entrance Switching Solenoid 1 (SL1-MK) activates for the predetermined time.
 - \rightarrow Bin Entrance Switching Solenoid 2 (SL2-MK) activates for the predetermined time.
 - \rightarrow Bin Entrance Switching Solenoid 3 (SL3-MK) activates for the predetermined time.
 - \rightarrow All Bin Entrance Switching Solenoids deactivate.
 - \rightarrow The operation is finished.

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Troubleshooting

7. Jam Display

7.1 Misfeed display

• When misfeed occurs, message, misfeed location "Blinking" and paper location "Lighting" are displayed on the Touch Panel of the main unit.



No.	Misfeed location	Misfeed access location	Action
[1]	Vertical Transport Section	Right Door	æ 14

7.1.1 Misfeed display resetting procedure

• Open the corresponding door, clear the sheet of paper misfeed, and close the door.

7.2 Sensor layout



- [1] Upper Transport Sensor
- [2] Lower Transport Sensor
- [3] Transport Sensor

PC9-MK PC10-MK PC5-FN

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7.3 Solution

7.3.1 Initial check items

• When a paper misfeed occurs, first perform the following initial check items.

Check item	Action
Does paper meet product specifications?	Replace paper.
Is the paper curled, wavy, or damp?	Replace paper. Instruct the user on the correct paper storage pro- cedures.
Is a foreign object present along the paper path, or is the paper path deformed or worn?	Clean the paper path and replace if necessary.
Are rolls/rollers dirty, deformed, or worn?	Clean or replace the defective roll/roller.
Are the Edge Guide and Trailing Edge Stop at the correct position to accommodate the paper?	Set as necessary.
Are the actuators operating correctly?	Correct or replace the defective actuator.

7.3.2 Transport Section Misfeed

A. Detection timing

Туре	Description
Transport Section misfeed	The Lower Transport Sensor (PC10-MK) is not blocked even after the set period of time has elapsed after the Transport Sensor (PC5-FN) is unblocked by the paper.
detection	The Upper Transport Sensor (PC9-MK) is not blocked even after the set period of time has elapsed after the Lower Transport Sensor (PC10-MK) is blocked by the paper.
Detection of paper remaining	The Lower Transport Sensor (PC10-MK) is blocked when the Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.
in the Transport Section	The Upper Transport Sensor (PC9-MK) is blocked when the Power Switch is set to ON, a door or cover is opened and closed, or a misfeed or malfunction is reset.

B. Action

Relevant electrical parts			
Transport Sensor (PC5-FN) Lower Transport Sensor (PC10-MK) Upper Transport Sensor (PC9-MK)	Main Control Board (PWB-A MK)		

		WIRING DIAGRAM		
Step	Action	Control signal	Location (Electrical components)	
1	Initial checks	-	-	
2	PC5-FN sensor check	PWB-MK CN102A MK-5 (ON)	C-5	
3	PC10-MK sensor check	PWB-MK CN102A MK-8 (ON)	C-5	
4	PC9-MK sensor check	PWB-MK CN101A MK-8 (ON)	C-4	
5	PWB-A MK replacement	-	-	



SERVICE MANUAL

FIELD SERVICE

SD-502

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General

1. Product specifications

А. Туре

Name	Saddle Sticher SD-502
Туре	Built into the Finisher
Installation	Screwed to the Finisher
Document Alignment	Center
Stapling Function	Center parallel two points No. of sheets to be stapled together: 2 to 15

B. Paper type

Туре	Plain Paper	56 g/m ² to 90 g/m ² 15 to 24 lb
Size	B5R to A3	
Capacity	200 sheets or 20 copies	

C. Machine specifications

Power Requirements	DC 24 V (supplied from the Finisher)) DC 5 V
Max. Power Consumption	9.5 W or less
Dimensions	445 mm (W) x 203 mm (D) x 478 mm (H) 17.5 inch (W) x 8 inch (D) x 18.75 inch (H)
Weight	9.3 kg (20.5 lb)

D. Operating environment

• Conforms to the operating environment of the main unit.

E. Consumables

• Staples 2000 (MS-2C) x 2

NOTE

• These specifications are subject to change without notice.

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Maintenance

2. Periodical check

2.1 Maintenance procedure (Periodical check parts)

NOTE

• The alcohol described in the cleaning procedure of Maintenance represents the isopropyl alcohol.

2.1.1 Cleaning of the Rollers and Rolls



- Remove the Crease Unit.
 8
- [4] [3] 4511F2C506DA

 Using a soft cloth dampened with alcohol, wipe the roller [1] and roll [2].

3. Using a soft cloth dampened with alcohol, wipe the roller [3] and roll [4].

3. Service tool

3.1 CE Tool list

Tool name	Shape	Personnel	Parts No.	Remarks
Stapler Unit Positioning Jig		1	4511-7901-01	

4. Other

4.1 Disassembly/Adjustment prohibited items

- A. Screws to which blue paint or green paint is applied
- Blue paint or green paint is applied to some screws to prevent them from coming loose.
- As a general rule, screws to which blue paint or green paint is applied should not be removed or loosened.
- B. Red-painted screws
- Do not remove or loosen any of the red-painted screws in the field. It should also be noted that, when two or more screws are used for a single part, only one representative screw may be marked with the red paint.
- C. Variable Resistors on Board

NOTE

- Do not turn the variable resistors on boards for which no adjusting instructions are given in Adjustment/Setting.
- D. Removal of PWBs

A Caution

- When removing a circuit board or other electrical component, refer to "SAFETY AND IMPORTANT WARNING ITEMS" and follow the corresponding removal procedures.
- The removal procedures given in the following omit the removal of connectors and screws securing the circuit board support or circuit board.
- When it is absolutely necessary to touch the ICs and other electrical components on the board, be sure to ground your body.

4.2 Disassembly/Assembly list (Other parts)

4.2.1 Disassembly/Assembly parts list

No.	Section	Part name		Ref.Page
1		Paper Output Tray	ł	5
2	Exterior parts	Front Cover	ł	5
3		Upper Cover	ł	6
4	1	Rear Cover	ł	6
5	Unit	Saddle Unit	ł	7
6		Crease Unit	ł	8
7		Stapler Unit	ł	9
8	Others	In & Out Guide Drive Motor	ł	13
9		Crease Roller	Ą	15

4.3 Disassembly/Assembly procedure

4.3.1 Paper Output Tray/Front Cover



- 1. Align the cutout and remove the Paper Output Tray [1].
- 2. Remove two screws [2], and remove the Front Cover [3].

4.3.2 Rear Cover



1. Remove two screws [1], and remove the Rear Cover [2].

4.3.3 Upper Cover

- 1. Remove the Front Cover.
- æ 5
- 2. Remove the Rear Cover.
- æ 6



3. Remove four screws [1], and remove the Upper Cover [2].

4.3.4 Saddle Unit











1. Remove the screw [1], and remove the Connector Cover [2].

- 2. Remove the screw [3], and remove the ground wire [4].
- 3. Unplug two connectors [5].

4. Remove the screw [6], and remove the Lower Front Cover [7].

- 5. Pull the lock release lever [8], and open the Saddle Unit.
- 6. Remove the screw [9].

7. Remove two screws [10], and remove the Saddle Unit [11].

Maintenance

4.3.5 Crease Unit

- 1. Remove the Saddle Unit.
- æ 7
- 2. Remove the Elevator Tray.
- For details, see FS-508 Service Manual.
- 3. Remove the Horizontal Transport Unit.
- For details, see FS-508 Service Manual.





[5] to the second secon



 Remove four screws [1], and remove the Horizontal Transport Upper Cover [2].

5. Remove two screws [3], and remove the Reinforcement Bracket [4].

6. Remove two screws [5], and remove the Horizontal Transport Lower Front Cover [6].

7. Unplug the connector [7].



4.3.6 Stapler Unit

- 1. Remove the Saddle Unit.
- æ 7
- 2. Remove the Paper Output Tray.
- æ 5
- 3. Remove the Front Cover.
- æ 5
- 4. Remove the Rear Cover.
- æ 6
- 5. Remove the Upper Cover.
- æ 6







8. Remove two screws [8], and remove the Crease Unit [9].

- 6. Remove the screw [1], and remove the ground wire [2].
- 7. Remove two screws [3], and remove the holder [4].
- 8. Release the lock release lever [5], and slide the Saddle Unit Mounting Plate [6].
- 9. Remove the shoulder screw [7] and the washer [8], and remove the Saddle Unit Mounting Plate [6].
- 10. Remove the harness clamp [6] from the Metal Bracket.



- 11. Remove the harness from the wire saddle.
- 12. Unplug four connectors [7].
- 13. Remove the C-ring [8], and remove the bearing [9].
- 14. Remove five screws [10], and remove the Drive Unit [11].

15. Remove the wire saddle [12], and unplug the connector [13].

16. Remove two screws [14] and two shoulder screws [15].

17. Remove the Empty [16].

- 18. Unplug all the connectors on the Main Control Board.
- 19. Remove the PWB support, and then remove the Main Control Board [17].

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[19]

[18]-

[20]

[20]

[22]

20. Remove the screw [18], and remove the lock release lever [19].

21. Remove eight screws [20], and remove the Lower Cover [21].

- 22. Remove the wire saddle and unplug the connector.
- 23. Remove three screws [22], and remove the Clincher 1 [23].
- 24. Remove the Staple Cartridge 1 [24].

25. Remove four screws [25], and remove the Stapler 1 [26].

NOTE

• To replace Clincher 2 and Stapler 2, repeat steps 22 to 25.



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20

4511F2C523DA

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[20]

[21]



Precaution for Clincher Reinstallation

• When the Clincher is installed, the position of the Stapler and the Clincher will be misaligned. Be sure to perform the following adjustment.









1. Use three screws [1] to temporary fix the Clincher [2].

- 2. Loosen the screw [3] of the stopper.
- 3. Loosen three screws [4] of the Clincher.

 Aligning the protrusions of the jig [6] with the recesses in the Stapler [5], fit the jig to the Stapler.

NOTE

- Make sure that the protrusions of the jig properly rest in the recesses.
- 5. Turn the gear [7] of the Clincher and then slide the Clincher Assy so that the protrusion of the Clincher [9] fits into the recess in the jig [8].



4.3.7 In & Out Guide Drive Motor

- 1. Remove the Saddle Unit.
- æ 7
- Remove the Paper Output Tray. 2.
- æ 5
- 3. Remove the Front Cover.
- 5 - SF
- 4. Remove the Rear Cover.
- æ 6
- 5. Remove the Upper Cover.
- 6 Ŧ







- 6. Tighten six screws [10]. NOTE
- Turn the gear again and check to see that the protrusion of the Clincher smoothly fits into the recess in the jig.
- 7. Turn the gear and remove the jig.

- Maintenance
- 6. Remove the screw [1], and remove the ground wire [2].
- 7. Remove two screws [3], and remove the holder [4].
- 8. Release the lock release lever [5], and slide the Saddle Unit Mounting Plate [6].
- 9. Remove the shoulder screw [7] and the washer [8], and remove the Saddle Unit Mounting Plate [6].
- 10. Remove the screw [9], and remove the lock release lever [10].







11. Remove eight screws [11], and remove the Lower Cover [12].

12. Remove the wire saddle [13], and unplug two connectors [14].

13. Remove the screw [15], and remove the In & Out Guide Drive Motor Assy [16].

- 14. Remove two C-rings [17].
- 15. Remove two bushings [18], and remove the Clutch Gear Assy [19].

16. Remove two screws [20], and remove the In & Out Guide Drive Motor [21].

Precaution for In & Out Guide Drive Motor Reinstallation



- 1. Press the two In & Out Guides [1] in and check that they touch the stopper [2] simultaneously.
- 2. Check that pins [4] can be inserted through the positioning holes [3] (3 holes) of the In & Out Guide Sensor Assy.
- 3. Use two screws to secure the In & Out Guide Drive Motor.

4.3.8 Crease Roller

1. Remove the Crease Unit.

æ 8





2. Remove four screws [1], and remove the Upper Plate [2].

3. Remove two screws [3], and remove the guide plate [4].



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4. Remove two screws [5], and remove the Chopper Assy [6].

• Install the Chopper Assy in the direction shown in the left figure.

5. Remove three C-rings [7], and remove three gears [8].

• Install the gear so that the mark [9] is aligned to the position shown in the left figure.

- 6. Remove three C-rings [10], and remove two bearings [11].
- 7. Remove the bushing [12].







8. Remove two screws [13], and remove the Rear Holder [14].

9. Remove the gear [15] of Crease Roller 1, and remove the Lower Guide Plate [16].

- When installing the gear [17] to the Lower Guide Plate [18], insert the gear [17] at an angle and use care not to break the tabs [19].
- Install the Lower Guide Plate as shown on the left.
- Install the gear of Crease Roller 1 so that it is above one gear tooth.
- 10. Remove the screw [20].
- 11. Remove two C-rings [21], and remove the Crease Roller A [22], B [23], and C [24].







12. Remove the gear [25] of Crease Roller 2, and remove the Lower Guide Plate [26].

NOTE

- When installing the gear [27] to the Lower Guide Plate [28], insert the gear [27] at an angle and use care not to break the tabs [29].
- Install the Lower Guide Plate as shown on the left.

- 13. Remove the screw [30].
- 14. Remove two C-rings [31], and remove the Crease Roller A [32], B [33], and C [34].

Precaution for Roller 1 and 2 Reinstallation

- Install the rear gear [35] of Crease Roller 2 so that it is above one gear tooth.
- Align the mark [36] of the front gear.

Adjustment/Setting

5. How to use the adjustment section

- "Adjustment/Setting" contains detailed information on the adjustment items and procedures for this machine.
- Throughout this "Adjustment/Setting," the default settings are indicated by " ".

Advance Checks

Before attempting to solve the customer problem, the following advance checks must be made. Check to see if:

- The power supply voltage meets the specifications.
- The power supply is properly grounded.
- The machine shares the power supply with any other machine that draws large current intermittently (e.g., elevator and air conditioner that generate electric noise).
- The installation site is environmentally appropriate: high temperature, high humidity, direct sunlight, ventilation, etc.; levelness of the installation site.
- The original has a problem that may cause a defective image.
- The density is properly selected.
- The Original Glass, slit glass, or related part is dirty.
- Correct paper is being used for printing.
- The units, parts, and supplies used for printing (developer, PC Drum, etc.) are properly replenished and replaced when they reach the end of their useful service life.
- Toner is not running out.

- To unplug the power cord of the machine before starting the service job procedures.
- If it is unavoidably necessary to service the machine with its power turned ON, use utmost care not to be caught in the Scanner Cables or gears of the Exposure Unit.
- Special care should be used when handling the Fusing Unit which can be extremely hot.
- The Developing Unit has a strong magnetic field. Keep watches and measuring instruments away from it.
- Take care not to damage the PC Drum with a tool or similar device.
- Do not touch IC pins with bare hands.

6. I/O Check

6.1 Check procedure

• To allow sensors to be checked for operation easily and safely, data applied to the IC on the board can be checked on the panel with the main unit in the standby state (including a misfeed, malfunction, and closure failure condition).

<Procedure>

- 1. Display the Tech. Rep. Mode screen.
- For details of how to display the Tech. Rep. Mode screen, see the Adjustment/Setting of the main unit service manual.
- 2. Touch [I/O Check].
- 3. Touch [Finisher].
- 4. Touch [Fwd] two times.

6.2 I/O check list

6.2.1 I/O check screen

 This is only typical screen which may be different from what are shown on each individual main unit.

Finisher Bac	Fwd END	
Saddle Exit(Saddle) Saddle Empty Saddle Reset Staple Home 1 (Saddle) Staple Empty 1 (Saddle) Staple Empty 2 (Saddle) Staple Empty 2 (Saddle) Home(Saddle) Home(Saddle)	Layable Guide Home(Saddle) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0

6.2.2 I/O check list

A. Finisher (SD-502)

Symbol	Panel display		Part/Signal name	Operation characteristics/ Panel display	
				1	0
PC20-SK		Exit (Saddle)	Saddle Exit Sensor	Paper present	Paper not present
PC21-SK		Saddle Empty	Saddle Tray Empty Sensor	Paper present	Paper not present
S4-SK		Saddle Reset	Saddle Interlock Switch	Open	Closed
-		Staple Home 1 (Saddle)	Staple Home Position Sensor 1	Blocked	Unblocked
-		Self Priming 1 (Saddle)	Self-Priming Sensor 1	Blocked	Unblocked
-	nisher	Staple Empty 1 (Saddle)	Staple Empty Detection Sensor 1	Blocked	Unblocked
-		Staple Home 2 (Saddle)	Staple Home Position Sensor 2	Blocked	Unblocked
-		Self Priming 2 (Saddle)	Self-Priming Sensor 2	Blocked	Unblocked
-		Staple Empty 2 (Saddle)	Staple Empty Detection Sensor 2	Blocked	Unblocked
PC23-SK		Home (Saddle In & Out Guide)	In & Out Guide Home Sensor	Blocked	Unblocked
PC26-SK		Layable Guide Home (Saddle)	Layable Guide Home Sensor	Blocked	Unblocked
7. Test mode

7.1 Entering Function Mode

- 1. Display the Tech. Rep. Mode screen.
- For details of how to display the Tech. Rep. Mode screen, see the Adjustment/Setting of the main unit service manual.

Tech. Rep. Mode	Exit
Tech. Rep.	System Input
Administrator #	Counter
Function	1/0 Check
Operation Check	CS Remote Care
ROM Version	Level History
FAX Set	Soft Switch Settings
	4349F2E541DA
Function	END
F1	F2
F7-1	F7-2
F8	F12
Hard Disk Format	FD
FC	Org. Width Detect Adjust
FW Download	
	4349F2E542DA
FC	END
2	
4 5	
7 8	9

2. Touch [Function].

3. Touch [FC].

4. Touch [8] or [9].

7.2 Function Modes

10

13

8: Creasing Unit movement mode

Performs the creasing drive once.

11

14

12

- \rightarrow Raises the Layable guide.
- \rightarrow Stops after the predetermined time.
- \rightarrow Lowers the Layable guide.
- \rightarrow The operation is finished.

9: Saddle Unit exit open/close mode

Opens the Saddle Exit after the Saddle Exit is opened and closed.

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- \rightarrow Stops after the predetermined time.
- \rightarrow The Saddle Exit closes.
- \rightarrow The Saddle In & Out Guide advances.
- \rightarrow Stops after the predetermined time.
- \rightarrow The Saddle In & Out Guide retracts.
- \rightarrow The operation is finished.

SD-502

8.1 Fold Angle Adjustment

NOTE

Make this adjustment after any of the following procedures has been performed.

- When the Crease Unit has been replaced.
- When a slant occurs in the crease.
- 1. Enter the Crease mode and make a copy. (A3 Size)





6. Make another copy and check the fold position.

- 2. Fold the output paper along the crease [1].
- 3. Fold the output paper and half and measure the width A of the paper. Specification: 0 ± 1.5 mm
- If the fold position is slanted as shown on the left, make the following adjustment.
- 5. Open the Front Door, loosen the adjustment screw [2], and move the Crease Unit to the left to make the adjustment.

Graduated in 1-mm divisions • If the fold position is slanted opposite

to the figure of step 4, move the Crease Unit to the right to make the adjustment.

8.2 **Fold Position Adjustment**

NOTE

SD-502

Make this adjustment after any of the following procedures has been performed.

- When the Crease Unit has been replaced. •
- When a deviation occurs in the crease.
- When fold angle adjustment has been made.
- 1. Enter the Booklet + Crease mode and make a copy. (A3 Size)



- 2. Press the Utility/Counter key, and touch [User's Choice].
- 3. Touch the [5/6] tab.
- 4. Touch [Crease/Center Staple].
- 5. Select [A3] and touch [Enter].
- 6. Touch [Crease].
- 7. Check the copy of step 1 and make the following adjustment.

If the fold is offset as shown on the left.

- 8. Fold the copy along the crease and measure width A. Specification: 0 ± 1.5 mm
- 9. Touch [] and set the appropriate numeric value. Adjustment range: 0 to +10 (1 increment 0.5 mm)

If the fold is offset as shown on the left.

- 10. Fold the copy along the crease and measure width B. Specification: 0 ± 1.5 mm
- 11. Touch $[\mathbf{\nabla}]$ and set the appropriate numeric value. Adjustment range: 0 to -10 (1 increment 0.5 mm)



Exit direction

13. Make another copy, and check the deviation.

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8.3 Center Staple Angle Adjustment

NOTE

Make this adjustment after any of the following procedures has been performed. • When Staple Unit 1 or 2 has been replaced.

When a slant occurs in the position of the center staple.



- 1. Set to Booklet + 2-point Staple and Crease mode and make a copy. Measure the width A of the paper. Specification: 0 ± 1.5 mm
- If the staple position is slanted as shown on the left, make the following adjustment.
- 3. Release the lock release lever [1] of the Saddle Unit.
- Loosen the adjustment screw [2] and move the lock lever to the left to make the adjustment.
- If the staple position is slanted opposite to the figure of step 2, move the lock lever to the right to make the adjustment.
- 5. Make another copy and check the staple position.

Adjustment / Setting

8.4 Center Staple Position Adjustment

NOTE

Make this adjustment after any of the following procedures has been performed.

- When Staple Unit 1 or 2 has been replaced.
- When center staple position is misaligned.
- When center staple angle adjustment has been made.
- 1. Make a copy in the Center Staple mode. (A3 Size)



- 2. Press the Utility/Counter key, and touch [User's Choice].
- 3. Touch the [5/6] tab.
- 4. Touch [Crease/Center Staple].
- 5. Select [A3] and touch [Enter].
- 6. Touch [Center Staple].
- 7. Check the copy of step 1 and make the following adjustment.

If the staple position is offset as shown on the left

- Fold the copy in half at the center and measure width A. Specification: 0 ± 1.5 mm
- Touch [▲] and set the appropriate numeric value. Adjustment range: 0 to +10 (1 increment 0.5 mm)

If the staple position is offset as shown on the left

- Fold the copy in half at the center and measure width B. Specification: 0 ± 1.5 mm
- Touch [▼] and set the appropriate numeric value. Adjustment range: 0 to -10 (1 increment 0.5 mm)

- 12. Touch [Enter].
- 13. Make another copy, and check the deviation.

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Exit direction

Troubleshooting

9. Jam Display

9.1 Misfeed Display

• When a paper misfeed occurs, the misfeed message, misfeed location, and paper location are displayed on the Touch Panel of the machine.



Display	Misfeed Location	Misfeed processing location	Action
	Creasing Section Misfeed	Front Door	e 28
[1]	Staple Unit Misfeed	Front Door	e 29
	Paper Bundle Exit Misfeed	Front Door	e 30

9.2 Sensor layout



9.3 Solution

9.3.1 Initial Check Items

• When a paper misfeed occurs, first make checks of the following initial check items

Check Item	Action	
Does paper meet product specifications?	Change paper.	
Is paper curled, wavy, or damp.	Change paper. Instruct user in correct paper storage.	
Is a foreign object present along the paper path, or is the paper path deformed or worn?	Clean or change the paper path.	
Are rolls/rollers dirty, deformed, or worn?	Clean or change the defective roll/roller.	
Are the Edge Guide and Trailing Edge Stop at correct position to accommodate paper?	Set as necessary.	
Are actuators found operational as checked for correct operation?	Correct or change the defective actuator.	

9.3.2 Creasing Section Misfeed

A. Detection Timing

Туре	Description
Creasing Section	The Entrance Sensor (PC4-FN) is not blocked even after the set period of time has elapsed after the Entrance Motor (M3-FN) is energized (beginning of backward rotation operation).
misfeed detection	The Entrance Sensor (PC4-FN) is not unblocked even after the set period of time has elapsed after the Entrance Motor (M3-FN) is energized (beginning of forward rotation operation).

B. Action

Relevant Electrical Parts		
Entrance Motor (M3-FN) Main Control Board (PWB-C SK)		
Entrance Sensor (PC4-FN)		

Step	Action	WIRING DIAGRAM	
		Control Signal	Location (Electrical Component)
1	Initial check items	-	-
2	PC4-FN I/O check	PWB-A FN PJ25A FN-4 (ON)	FS-508 B-6
3	Change PWB-C SK	-	-

9.3.3 Staple Unit Misfeed

A. Detection Timing

Туре	Description
Staple Unit misfeed detection	The Staple Home Position Sensor in the Staple Unit is not blocked even after the set period of time has elapsed after the Staple Motor rotates for- ward, and then the Staple Motor rotates backward, and the Staple Home Position Sensor in the Staple Unit is blocked within the set period of time.

B. Action

Relevant Electrical Parts		
Staple Unit 1 Main Control Board (PWB-C SK) Staple Unit 2 Image: Control Board (PWB-C SK)		

Step		WIRING DIAGRAM	
	Action	Control Signal	Location (Electrical Component)
1	Initial check items	-	-
2	Drive Coupling Section check	-	-
3	I/O Check	-	-
4	Change Staple Unit 1	-	-
5	Change Staple Unit 2	-	-
6	Change PWB-C SK	-	-

9.3.4 Paper Bundle Exit Misfeed

A. Detection Timing

Туре	Description
	The Storage Tray Detecting Sensor (PC8-FN) is not unblocked even after the set period of time has elapsed after the Exit Motor (M1-FN) is ener- gized.
Paper Bundle misfeed detection	The Saddle Exit Sensor (PC20-SK) is not blocked even after the set period of time has elapsed after the Exit Motor (M1-FN) is energized.
	The Saddle Exit Sensor (PC20-SK) is not unblocked even after the set period of time has elapsed after the Saddle Exit Sensor (PC20-SK) is blocked.

B. Action

Relevant Electrical Parts		
Exit Motor (M1-FN)	Saddle Exit Sensor (PC20-SK)	
Saddle Exit Motor (M8-SK)	Main Control Board (PWB-C SK)	
Storage Tray Detecting Sensor (PC8-FN)		

	Action	WIRING DIAGRAM	
Step		Control Signal	Location (Electrical Component)
1	Initial check items	-	-
2	PC8-FN I/O check	PWB-A FN PJ13A FN-8 (ON)	FS-508 G-8
3	PC20-SK I/O check	PWB-C SK PJ19C SK-8 (ON)	SD-502 B-4
4	Change PWB-C SK	-	-

10. Malfunction code

10.1 Trouble code

• The machine's CPU performs a self-diagnostics function that, on detecting a malfunction, gives the corresponding malfunction code and maintenance call mark on the Touch Panel.

Code	Item	Description
C11A2	Saddle Exit Roller Pressure/Retraction Failure	 The Saddle Exit Roller Home Position Sensor (PC18-SK) is not blocked even after the set period of time has elapsed after the Saddle Exit Open/Close Motor (M9-SK) is energized (beginning of pressure operation). The Saddle Exit Roller Home Position Sensor (PC18-SK) is not unblocked even after the set period of time has elapsed after the Saddle Exit Open/Close Motor (M9-SK) is energized (beginning of retraction operation).
C11A4	Saddle Exit Motor Failure	The Lock signal is detected after the set period of time has elapsed after the Saddle Exit Motor (M8-SK) is energized.
C11A5	Saddle In & Out Guide Motor Failure	 The In & Out Guide Home Sensor (PC23-SK) is not unblocked even after the set period of time has elapsed after the In & Out Guide Motor (M13-SK) is energized (beginning of advancing operation). The In & Out Guide Home Sensor (PC23-SK) is not unblocked even after the set period of time has elapsed after the In & Out Guide Motor (M13-SK) is energized (beginning of retracting operation).
C11A6	Saddle Layable Guide Drive Failure	 The Layable Guide Home Sensor (PC26-SK) is not blocked even after the set period of time has elapsed after the Layable Guide Motor (M14-SK) is energized (beginning of return oper- ation to predetermined position). The Layable Guide Home Sensor (PC26-SK) is not unblocked even after the set period of time has elapsed after the Layable Guide Motor (M14-SK) is energized (beginning of return oper- ation to predetermined position).
C11B5	Side Staple 1 Drive Failure	Home Position Sensor 1 is not blocked even after the set period of time has elapsed after Saddle Staple Motor 1 is energized (beginning of staple operation).
C11B6	Side Staple 2 Drive Failure	Home Position Sensor 2 is not blocked even after the set period of time has elapsed after Saddle Staple Motor 2 is energized (beginning of staple operation).
C11D0	Crease Motor Drive Failure	 The Crease Roller Home Position Sensor (PC22-SK) is not unblocked even after the set period of time has elapsed after the Crease Motor (M10-SK) is energized (beginning of back- ward rotation operation). The Crease Roller Home Position Sensor (PC22-SK) is not blocked even after the set period of time has elapsed after the Crease Motor (M10-SK) is energized (beginning of forward rotation operation).

10.2 Solution

10.2.1 C11A2: Saddle Exit Roller Pressure/Retraction Failure

Relevant Electrical Parts		
Saddle Exit Open/Close Motor (M9-SK) Saddle Exit Roller Home Position Sensor (PC18-SK)	Main Control Board (PWB-C SK)	

	Action	WIRING DIAGRAM	
Step		Control Signal	Location (Electrical Component)
1	Check the M9-SK connector for proper connection and correct as necessary.	-	-
2	Check M9-SK for proper drive cou- pling and correct as necessary.	-	-
3	M9-SK operation check	PWB-C SK PJ4C SK-6 to 7	SD-502 H-6
4	PC18-SK I/O check	PWB-C SK PJ9C SK-6 (ON)	SD-502 B-3
5	Change PWB-C SK	-	-

10.2.2 C11A4: Saddle Exit Motor Failure

Relevant Electrical Parts		
Saddle Exit Motor (M8-SK)	Main Control Board (PWB-C SK)	

	Action	WIRING DIAGRAM	
Step		Control Signal	Location (Electrical Component)
1	Check the M8-SK connector for proper connection and correct as necessary.	-	-
2	Check M8-SK for proper drive cou- pling and correct as necessary.	-	-
3	M8-SK operation check	PWB-C SK PJ4C SK-6 to 7	SD-502 H-6
4	Change PWB-C SK	-	-

10.2.3 C11A5: Saddle In & Out Guide Motor Failure

Relevant Electrical Parts		
In & Out Guide Motor (M13-SK) In & Out Guide Home Sensor (PC23-SK)	Main Control Board (PWB-C SK)	

	Action	WIRING DIAGRAM	
Step		Control Signal	Location (Electrical Component)
1	Check the M13-SK connector for proper connection and correct as necessary.	-	-
2	Check M13-SK for proper drive cou- pling and correct as necessary.	-	-
3	M13-SK operation check	PWB-C SK PJ4C SK-4 to 5	SD-502 H-6
4	PC23-SK I/O check	PWB-C SK PJ10C SK-3 (ON)	SD-502 B-4
5	Change PWB-C SK	-	-

10.2.4 C11A6: Saddle Layable Guide Drive Failure

Relevant Electrical Parts		
Layable Guide Motor (M14-SK) Layable Guide Home Sensor (PC26-SK)	Main Control Board (PWB-C SK)	

		WIRING DIAGRAM	
Step	Action	Control Signal	Location (Electrical Component)
1	Check the M14-SK connector for proper connection and correct as necessary.	-	-
2	Check M14-SK for proper drive cou- pling and correct as necessary.	-	-
3	M14-SK operation check	PWB-C SK PJ4C SK-8 to 9	SD-502 H-6
4	PC26-SK I/O check	PWB-C SK PJ10C SK-6 (ON)	SD-502 B-4
5	Change PWB-C SK	-	-

10.2.5 C11B5: Side Staple 1 Drive Failure

10.2.6 C11B6: Side Staple 2 Drive Failure

Relevant Electrical Parts		
Staple Unit 1	Main Control Board (PWB-C SK)	
Staple Unit 2		

	Action	WIRING DIAGRAM	
Step		Control Signal	Location (Electrical Component)
1	Check the Staple Unit 1 and 2 con- nectors for proper connection and correct as necessary.	-	-
2	Check Staple Units 1 and 2 for proper drive coupling, and correct as necessary.	-	-
3	Staple Units 1 and 2 operation check	-	-
4	Change Staple Units 1 and 2	-	-
5	Change PWB-C SK	-	-

10.2.7 C11D0: Crease Motor Drive Failure

Relevant Electrical Parts		
Crease Motor (M10-SK)	Main Control Board (PWB-C SK)	
Crease Roller Home Position Sensor (PC22-SK)		

Step	Action	WIRING DIAGRAM	
		Control Signal	Location (Electrical Component)
1	Check the M10-SK connector for proper connection and correct as necessary.	-	-
2	Check M10-SK for proper drive cou- pling and correct as necessary.	-	-
3	M10-SK operation check	PWB-C SK PJ3C SK-1 to 2	SD-502 D-7
4	PC22-SK I/O check	PWB-C SK PJ2C SK-3 (ON)	SD-502 D-7
5	Change PWB-C SK	-	-



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